

COVID-19, Data Privacy & App Design

An analysis of privacy design elements
of COVID-19 related applications

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Section 1: Overview

Context & Background: Project motivations

1. **COVID-19.** A global pandemic sparked need for technical interventions to reduce viral spread by logging contacts between individuals. Apps were the first types of technologies used in order to trace interactions.
2. **Apps Implementations:** Different countries started to develop apps. We wanted to identify similarities and difference in design implementations and information material that were used.
3. **App Adoption:** We wanted to see the different aspects of app's experience and whether they impact adoption.
4. **App Design:** we wanted to look specifically into app designs (user experience and user interface) to do more analysis and comparisons among these apps with regard to user data transparency.
5. **Comparing and Documenting App Implementations:** We wanted to create a place where we could compare different apps and document the screenshots as the pandemic progressed.

Section 3 Overview: App design transparency comparisons

Section 3.1 - Onboarding transparency: Slides: 12-46

- (17 of 18) apps with some level of onboarding include a “walkthrough” step-by-step method of onboarding; (15 of 18) of those apps have similar user interface components (feature image and summary text) with various themes: (8 of 18) created warm illustrations of people and families, (16 of 18) showed information in short sentences as opposed to dense paragraphs, (10 of 18) use simple iconography (no human illustrations) with longer blocks of text, and (4 of 31) asked for data permissions before any walkthrough or onboarding of information;

Section 3.2 - Visible data settings: Slides 47-61

- (15 of 31) apps accessed feature settings, app permissions and data collection features placed on one of the apps main tabs; (9 of 15) are labeled on the home tab; between (1-6 apps of 15) show “on and off” via checkmarks, cards, toggles, buttons, iconography, and color-coded backgrounds; of the 15 apps, between 1-3 apps each show different aspects that can be turned on/off including: bluetooth, notifications, location, link to go to settings to activate bluetooth, awareness Bluetooth is on, contact registration or proximity tracing is on, “delete data” button and a remove tracking of geolocation option.

Section 3.3 - App governance process: Slide 62-72

- We analyzed the presence privacy policy specific to app (23 of 31), whether app is open source (17 of 31), privacy impact assessments (7 of 31).

Section 4 Overview: App data comparisons

Section 4.1 - App permissions: Slides 74-94

- We analyzed 28 apps available and live for download on the Google Play Store as of August 1, 2020; (17 of 28) both mentioned use of approximate and precise location information, (17 of 28) access bluetooth settings, (28 of 28) request full network access, (26 of 28) view network connections, (10 of 28) can read the contents of your USB storage, (5 of 28) ask permission to take pictures and video.

Section 4.2 - App data deletion: Slides 95-105

- Of 31 apps that we could access, (23 of 31) apps we found reference to user app deletion and (8 of 31) apps we did not find reference to user app and data deletion.

Section 4.3 - App downloads (Google Play Store): Slides 106-112

- We analyzed 27 apps available and live for download on the Google Play Store as of August 01, 2020; (2 of 28) listed 1,000+ installs, (3 of 28) listed 10,000+ installs, (4 of 28) listed 50,000+ installs, (8 of 28) listed 100,000+ installs, (2 of 28) listed 500,000+ installs, (6 of 28) listed 1,000,000+ installs, (2 of 28) listed 5,000,000+ installs, (1 of 28) listed 100,000,000+ installs.



Section 2: Methodology

Methodology: How we collected, categorized and analyzed apps

NOTE: This is a work in progress and information on these topics are changing frequently. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

1. **Identifying COVID-19-Related Apps:** We first used a set of apps highlighted in the [MIT Tech Review Contact Tracing Tracker](#). We then looked for additional apps deployed during the time of this review (March - July 2020) -- Basis for (Q1, 2, 3)
2. **Analyzing Apps:** For each app, we installed the app (using an iOS mobile device) where possible. Some were not accessible due to geographic limitations or the app was no longer available etc. We documented whether we were able to download the app, and if so, how far we were able to get to explore features (Q8, 9, 11, 12, 13, 14). For example, many required local phone numbers to be able to see the home page and core experience.
3. **Capturing App Experience (Screenshots of live usage):** After installation, we took screenshots of every step of the process from onboarding, permission gathering to home screen or other tab exploration. All screenshots are available in Section 5 of this slide deck.
4. **Inferring App Experience from App store images:** If firsthand screenshots with the app download were not possible, we documented screenshots in both the Apple App Store and Google Play Store links.
 - a. We used Google Play Store to document permissions and the rough ballpark of downloads. (Q5, 7, 12)
 - b. We used the App Store to document the version history to understand when the first version was uploaded to the app store. (Q4, 6)
5. **Inferring App Experience from news, blogs and App websites:.** If firsthand screenshots with the app download were not possible, we searched the affiliated app websites, documentation (PDFs, GitHub repositories, etc.), news articles and/or video walkthroughs for additional screenshots. (Q8, 9, 10, 12, 13, 14)

Using a mix of steps #3-5 we were able to answer questions including: Does the app explain data collection and the COVID-19-related app technology within the first 5 screens of onboarding? Does the home or main tab have settings features (the ability to turn off bluetooth, etc.)? What are the permissions required from the user in order to use the app? What personal information is collected throughout the app experience?

Methodology: How we collected, categorized and analyzed apps

NOTE: This is a work in progress and information on these topics are changing frequently. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

6. **Governance, data collection and deletion:** We looked at the affiliated website, privacy policies, and/or terms of use documentation in order to gather information on: App collaboration and governance, personal information collected, if the app deletes data and if yes, under what conditions.
7. **Translated materials:** We used Google translate (where necessary) to derive insights. Note: Beyond visual indicators, we were not able to gather some information for the app due to language barrier even with Google translate. For these, we note them in each of the subsections below.
8. **Data collection:** We took steps 2-7 to be able to fill in an Excel spreadsheet of items for each of the countries, adding links for sources where relevant.
9. **Derived themes:** We looked at COVID-19 related applications and matched 4 common themes across the apps (See: Section 3 & Section 4). The themes we gathered are:
 - a. **Onboarding transparency:** How did the apps onboard and orient users? (Q8)
 - b. **Visible data settings:** What was the design of the app settings? How might a user turn “off” data sharing? (Q9)
 - c. **App governance process:** How was the app designed, built, strategized and conceived? Who did they collaborate with? (Q10)
 - d. **Unique features:** What are standout app features?
10. **App comparison:** We also created a section that simply compared information documented across apps:
 - a. **App permissions:** What permissions does the app ask users for? (Q12)
 - b. **Personal information collected:** What personal information is collected in the app? (Q13)
 - c. **App data deletion processes:** What is the process or UX to delete your account or information? (Q14)
 - d. **App downloads:** How many app downloads did the app see in Google Play store? Or relevant media? (Q7)

Questions for app analysis

1. What is the name of the country / state / province affiliated with the app?
2. What is the name of the app?
3. Who is the deployer?
4. What is the iPhone App store link?
5. What is the Google Play store link?
6. What is the date of deploying the app in the app store? (As seen by version 1.0 in the App store link)
7. How many reported downloads? (As seen by Google Play store link, along with the date documented)
8. Does the app explain data collection / COVID-19 related app technology within the first 5 screens of onboarding? Before they ask you to enable permissions?
9. Does the home / main page have setting toggles (ability to turn on/off bluetooth, location, etc.)
10. How was the app created (through collaboration with community members or experts)? How is it governed (documentation, advisory boards, outside council, etc.)?
11. Were we able to download the app? If so, how far were we able to explore before being limited in some way?
12. What are the permissions required from the user in order to use the app?
13. Personal information collected
14. Does the app delete the data? If yes, after how many days?

Section 3:

App design transparency comparisons

Section 3.1 - Onboarding transparency

(17 of 18) apps with some level of onboarding include a “walkthrough” step-by-step method of onboarding; (1 of 18) of those apps have similar user interface components (feature image and summary text) with various themes; (8 of 18) created warm illustrations of people and families, (16 of 18) showed information in short sentences as opposed to dense paragraphs, (10 of 18) use simple iconography with longer blocks of text, and (4 of 32) asked for data permissions before any walkthrough or onboarding of information;

Section 3.2 - Visible data settings

(16 of 32) apps accessed feature settings, app permissions and data collection features placed on one of the apps main tabs; (10 of 16) are labeled on the home tab; between (1-6 apps of 16) show “on and off” via checkmarks, cards, toggles, buttons, iconography, and color-coded backgrounds; of the 16 apps, between 1-3 apps each show different aspects that can be turned on/off including: bluetooth, notifications, location, link to go to settings to activate bluetooth, awareness Bluetooth is on, contact registration or proximity tracing is on, “delete data” button and a remove tracking of geolocation option.

Section 3.3 - App governance process

We analyzed the presence privacy policy specific to app (23 of 31), whether app is open source (17 of 31), privacy impact assessments (7 of 31).

3.1: Onboarding transparency

Sub-themes and findings:

Key questions

- Does the app explain data collection / COVID-19-related technology within the first 5-7 screens of onboarding?
- Of those with the walkthrough method present, how many have icon/illustration + text layouts?
- How do the apps differentiate in terms of style of onboarding?
- Do they explain permissions before they ask you to enable permissions?

- **Walkthrough method:** Of the analyzed applications, 18 apps had some level of onboarding before requiring data collection include a “walkthrough” method of screen-by-screen onboarding, highlighting elements including: the purpose of the app, how the technology works (both for the user and also the technical backend), various features (notifications, confidentiality), and possible public health mentions.
 - (17 of 18) Walkthrough present: Alberta Canada, Australia, Austria, Bahrain, Canada, Cyprus, Czech Republic, France, India, Ireland, Italy, Malaysia, Poland, Singapore, Switzerland, Turkey, UK
 - (1 of 18) No walkthrough: Iceland has 1 screen that explains the app, but no series of walkthrough screens
- **Walkthrough screen components:** With the 16 apps that showcased an app walkthrough, (14/15) walkthrough “screen” was broken out into similar core components that included the following: main illustration highlighting the concept, a short few sentences of text:
 - (15 of 18) apps with walkthroughs have icon/illustration + text layout: Alberta Canada, Australia, Austria, Bahrain, Canada, Czech Republic, France, India, Italy, Malaysia, Poland, Singapore, Switzerland, Turkey, UK
 - (3 of 18) No consistent set of screens with features of prominent graphic + text: Cyprus, Iceland, Ireland
- **Style of onboarding:** In the onboarding process we noticed several themes:
 - Created warm illustrations of people and families
 - (8 of 18) Yes: Australia, Canada, France, India, Ireland, Italy, Singapore, Switzerland,
 - (10 of 18) No or unable to tell based on app access: Alberta Canada, Austria, Bahrain, Cyprus, Czech Republic, Iceland, Malaysia, Poland, Turkey, UK
 - Showed information in short sentences as opposed to dense paragraphs
 - (16 of 18) Yes: Australia, Austria, Bahrain, Canada, Cyprus, Czech Republic, France, India, Iceland, Italy, Malaysia, Poland, Singapore, Switzerland, Turkey, UK
 - (2 of 18) Not characteristic of this description or unable to access enough information: Alberta Canada, Ireland
 - Created a more formal approach, creating simple iconography (no human illustrations) with longer blocks of text (as opposed to a few sentence summary):
 - (10 of 18) Yes: Alberta Canada, Austria, Cyprus, Czech Republic, Iceland, Ireland, Malaysia, Poland, Turkey, UK
 - (8 of 18) No: Australia, Canada, Bahrain, France, India, Italy, Singapore, Switzerland,
- **Permissions placement: Looking at all apps (not just ones with onboarding transparency)**
 - (4 of 32) total apps that asked for data before any walkthrough or explanation (US - Utah, US - North Dakota, Qatar, Mexico)

Countries referenced

Note: Screens gathered highlight whether there was **some** evidence of the theme for analysis and comparison; we are not making a judgment or opinion on whether the design choices are good or bad.

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

-  Definite evidence through personal app download
-  Some evidence, the app was not fully tested; used secondary information to infer details

-  1. Alberta, Canada: Unable to download; gathered screenshots through news, media
-  2. Australia: Unable to download; gathered screenshots through news, media
-  3. Austria: Able to download; gathered screenshots through iOS v 2.0.2
-  4. Bahrain: Unable to download; gathered screenshots through google play store
-  5. Canada: Able to download; gathered screenshots through iOS v. 1.0.2
-  6. Cyprus: Able to download; gathered screenshots through iOS v 2.0.1
-  7. Czech Republic: Able to download; gathered screenshots through iOS v 1.1
-  8. France: Able to download; gathered screenshots through iOS v 1.1.1
-  9. India: Research team did not download; gathered screenshots through app store, news, and media
-  10. Iceland: Able to download; gathered screenshots through iOS v. 2.0.0
-  11. Ireland: Able to download; gathered screenshots through iOS v. 1.0.1
-  12. Italy: Able to download; gathered screenshots through iOS v 1.2.0
-  13. Malaysia: Able to download; gathered screenshots through iOS v 1.0.30 and detailed sequential screenshot documentation available through affiliated website.
-  14. Poland: gathered screenshots through iOS v 4.2.0; screenshots showed text information before asking for permissions for logging and notifications; unable to translate screens to validate what information is articulated
-  15. Singapore: Unable to download; gathered screenshots through secondary media; found potential evidence of this
-  16. Switzerland: Able to download; gathered screenshots through iOS v 1.0.5
-  17. Turkey: Unable to download; acquired screenshots from App Store and Google Play store; unable to determine sequential onboarding screens, but there seems to be some evidence of information walkthrough before entering the home screen.
-  18. UK: Unable to download; acquired screenshots from secondary source news media; Screens show some evidence of informational onboarding; unable to see sequential walkthrough details.

Countries not referenced

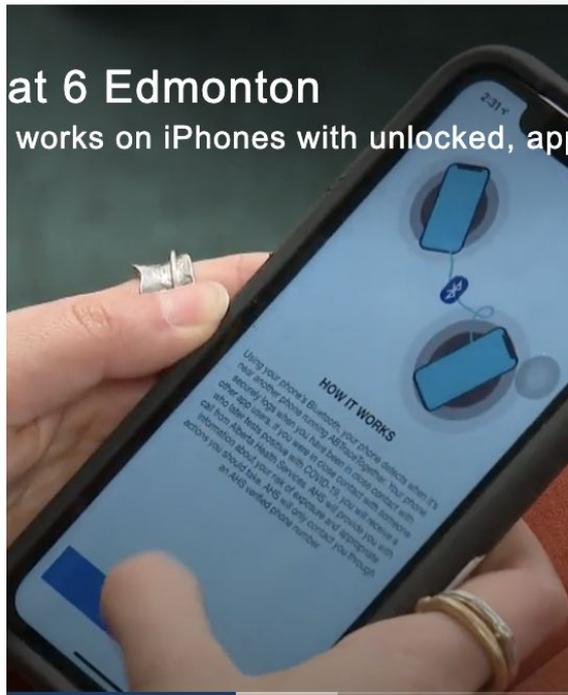
Note: Apps for countries not referenced due to inability to download the app, lack of secondary evidence through sources we found to show there is some level of informational onboarding, or no informational screens or text before requiring some level of data collection or permissions.

This is a work in progress. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

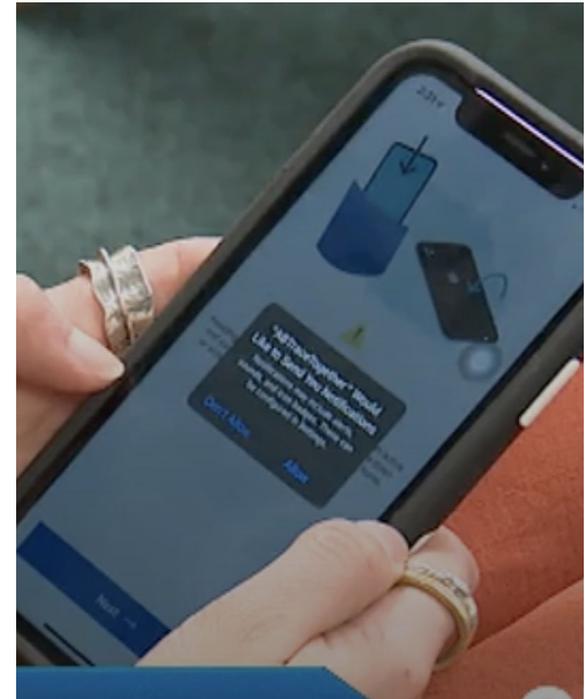
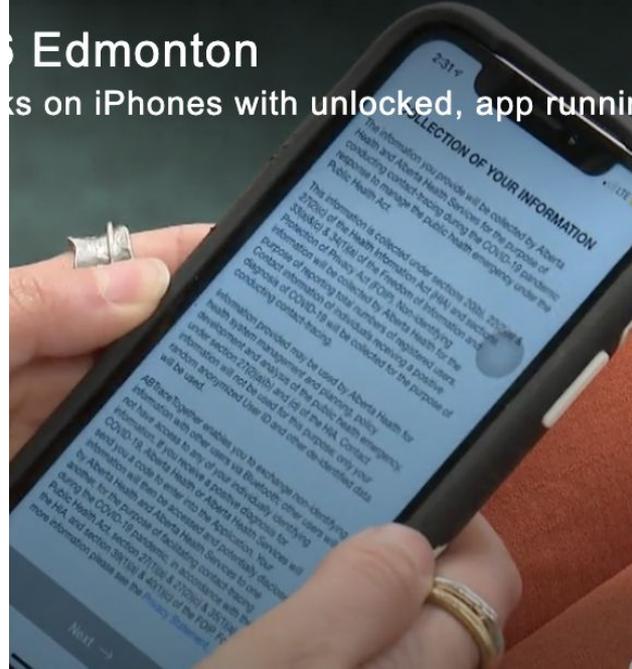
1. Bulgaria: Unable to download; unable to translate PNG screenshots from Google Play
2. China: Unable to access the app; unable to translate screenshots of the app from news media
3. Germany: Unable to access the app; unable to translate screenshots of the app from the app store & github screenshots presented are not necessarily all comprehensive so was unable to answer question for this section.
4. Ghana: Unable to download; acquired screenshots from secondary news sources, unable to see sequential screenshots for this category
5. Iran: Unable to download; acquired screenshots from android app store, twitter, news and media. Unable to translate screenshots available.
6. Israel: Unable to download; acquired screenshots from Google Play store, affiliated websites; screens are not sequential and so was unable to answer question for this section.
7. Mexico: Able to download; gathered screenshots through iOS v 1.0.1; screenshots did not include data collection or onboarding screens before asking for permissions on location, notifications and bluetooth access
8. Netherlands: Unable to download; acquired screenshots from clickable PrivateTracer online prototype and secondary media sources (videos); unable to infer whether these screenshots are sequential and therefore unable to answer question for this section.
9. North Macedonia: Unable to download; acquired screenshots from App Store and secondary media from affiliated website; unable to track whether onboarding screens are sequential so was unable to answer question for this section.
10. Norway: Unable to download; acquired screenshots from Google Play Store and unable to see sequential onboarding screenshots so was unable to answer question for this section
11. Qatar: Able to download; app asks for permissions (and does not let you continue) unless user turns on bluetooth and location services are on; no evidence of onboarding screens or information about the technology before Terms and Conditions screen and registration page.
12. UAE: Unable to download; acquired screenshots from app store and secondary media (video) source; unable to see sequential onboarding screenshots so was unable to answer question for this section.
13. U.S. North Dakota: gathered screenshots through iOS v 3.5; screenshots did not include onboarding screens before asking for permissions for notifications; "Welcome" screen gives minimal information on the technology
14. U.S. Utah: Able to download iOS v 1.2.1; there is no onboarding or informational walkthrough before requiring user to input phone number

at 6 Edmonton

works on iPhones with unlocked, app runs on iPhones with unlocked, app running



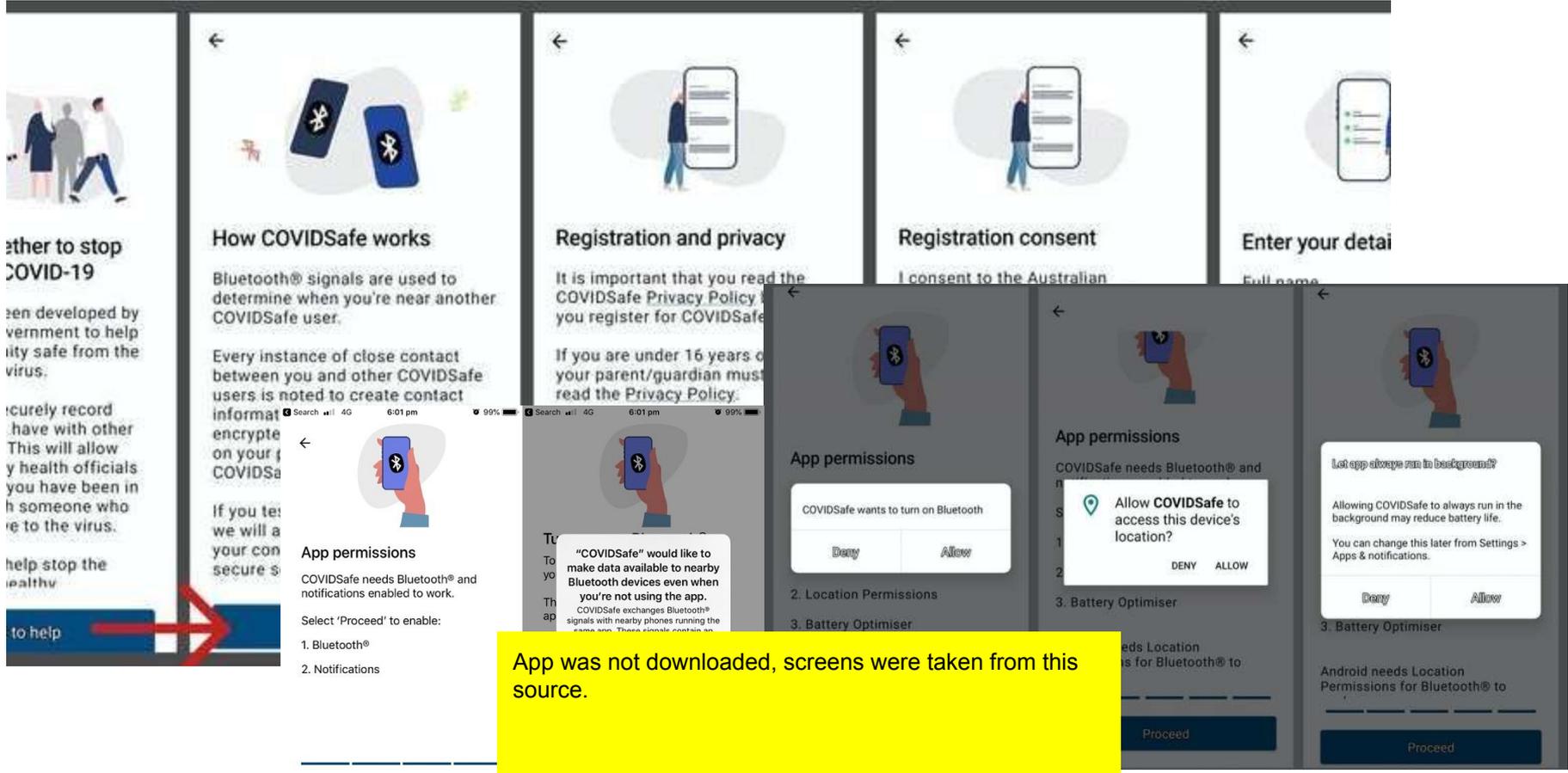
Edmonton



We did not have access to the onboarding screens of the app. Based on researching news media, these screenshots highlight a thick block of explanatory text before asking users to accept app permissions.

Alberta, Canada
ABTraceTogether

Source: <https://globalnews.ca/news/6898691/ab-trace-together-contact-app-alberta-covid-ios/>



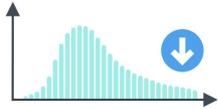
App was not downloaded, screens were taken from this source.

Australia
COVIDSafe

Source: <https://techxplore.com/news/2020-04-covidsafe-tracking-app-issues.html>

Welcome!

By installing the Stop Corona App, you help to combat the **spread** of the corona virus and keep the number of **new infections low**.



Continue

Digital handshake

With the digital handshake you save your encounters **anonymous** and automatically. You will be notified anonymously in the app if one of your contacts falls ill.

For medical reasons: The app works on further distance, please avoid to get closer than 1 meter.



Continue

Check symptoms

Use our clinically tested questionnaire. Get a **daily** assessment of your health status.



Continue

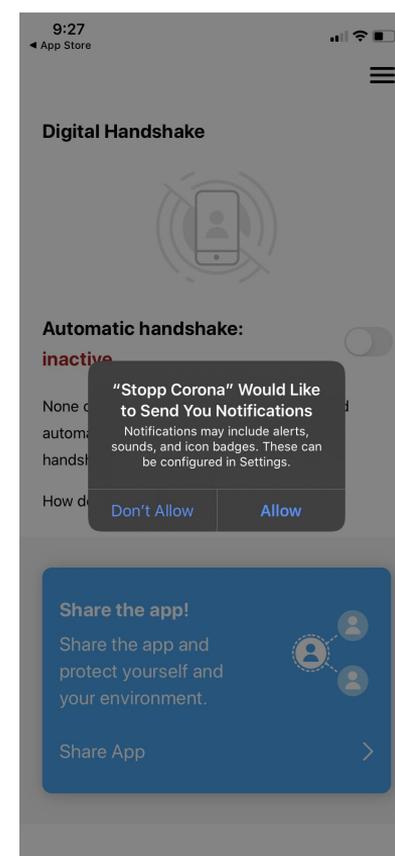
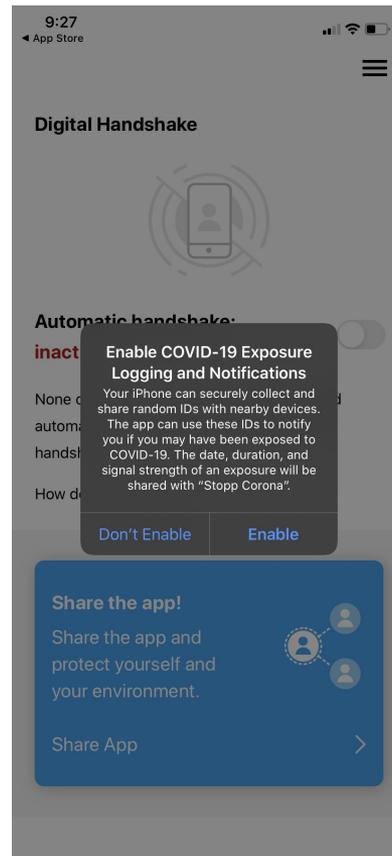
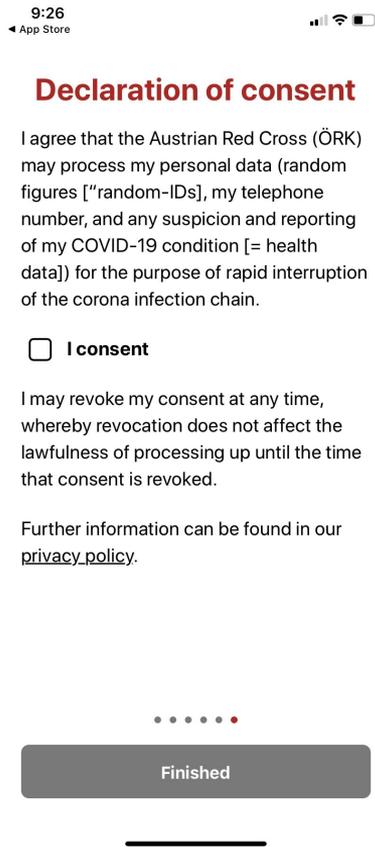
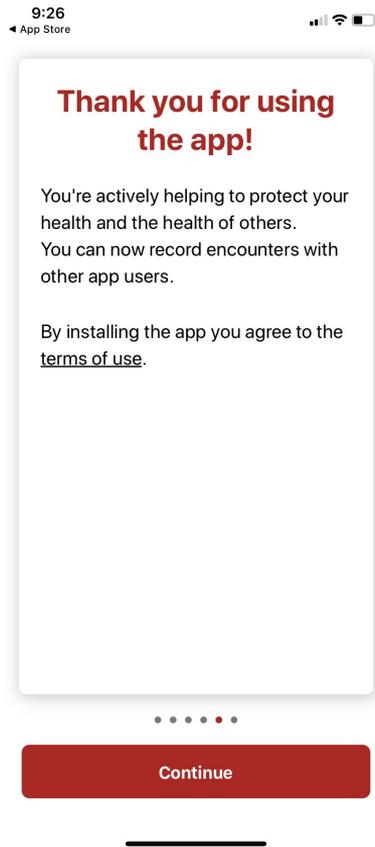
Notification in the event of illness

Help to help others! If you should contract the corona virus yourself, your contacts will be notified **anonymously** so that they can take measures.



Continue

Austria focuses one page of the onboarding directly on defining and explaining the key concept of their app: "The Digital handshake."





#فريق البحرين
#TeamBahrain

#UnitedAgainstCOVID19
Containing and preventing the Coronavirus (COVID-19) from spreading is a national responsibility.

How will the app achieve its objectives?
The app mainly utilizes location data shared by users to do the following:

- Alert and notify individuals** that have been in close proximity with a newly confirmed case during the past 14 days of confirming that case.
- Track the movement of self-isolated individuals' cases** for the duration of their isolation, to ensure they abide by quarantine regulations.

Location Services must be enabled to use the app
Please enable location Services and set it to **Always** to allow the app to function accurately in order to protect you and others.

Key practices to ensure privacy and safety:
Data privacy is in line with the Personal Data Protection law.
Data will be collected for two to six weeks based on contact tracing cases.
Data will be strictly used for the sole purpose of limiting the spread of Coronavirus.
Data encryption will be used to protect sensitive data.

Registration

Personal number

Mobile Number

Complete Registration

BeAware Bahrain

Contact Tracing

You have not come into close proximity with any active case. Stay safe.

eServices

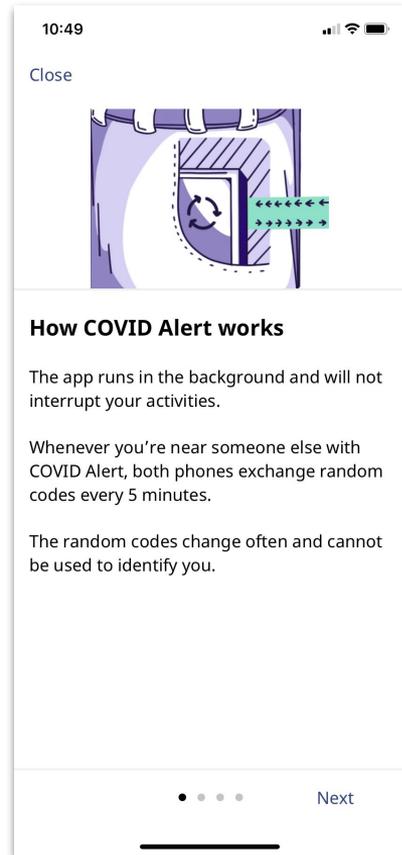
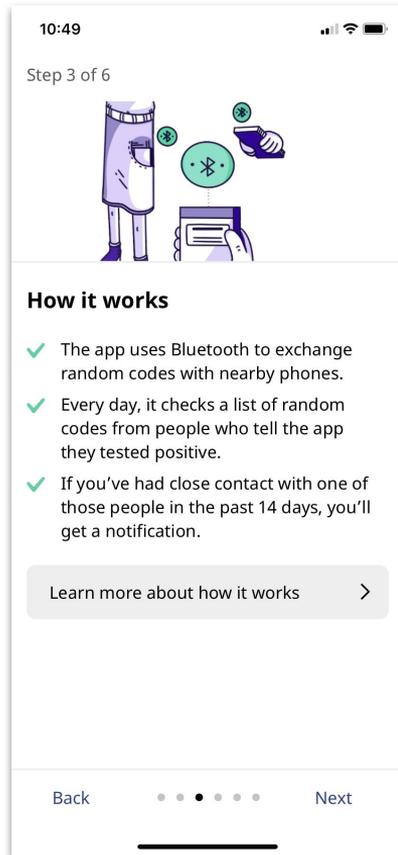
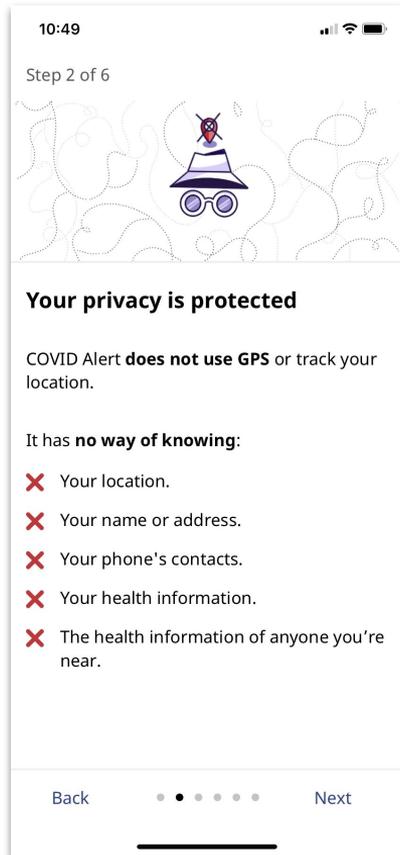
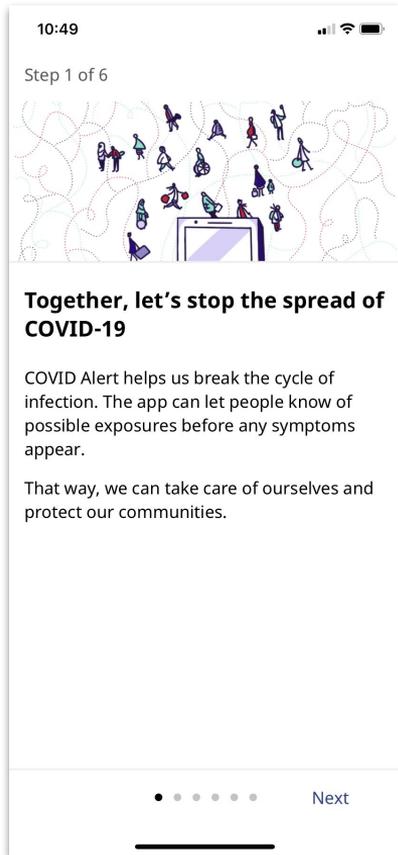
Coronavirus Test Results

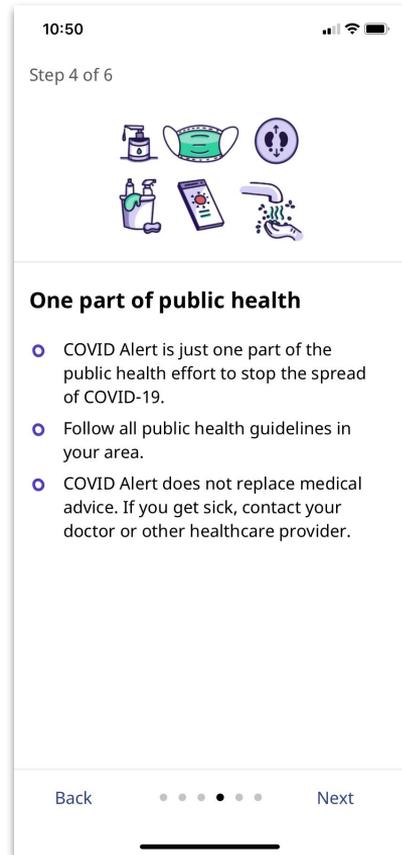
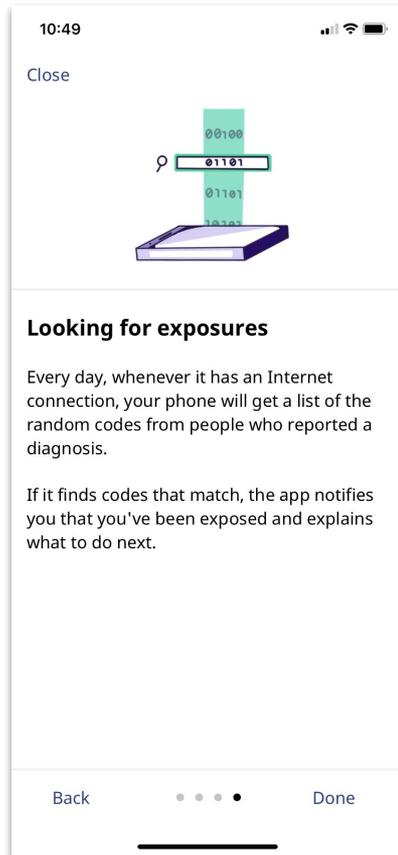
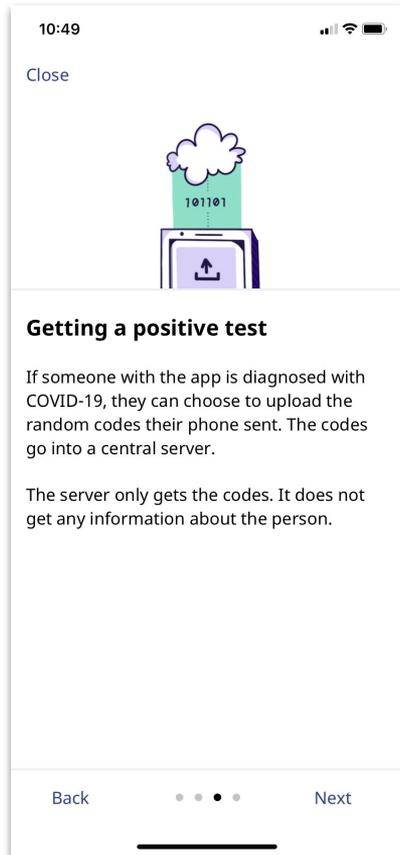
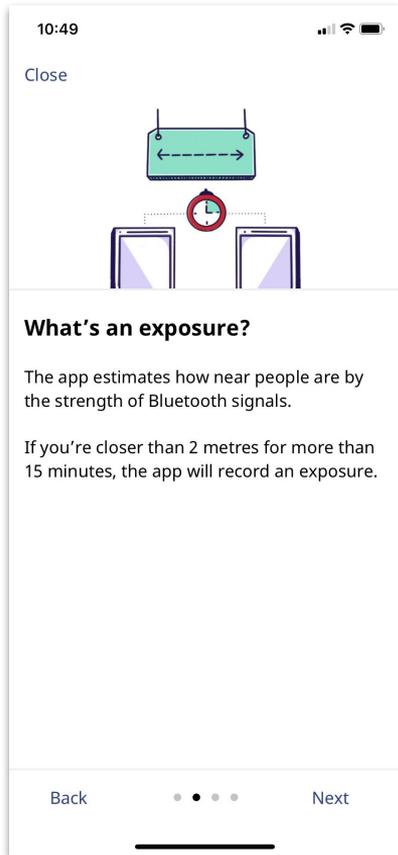
Summary of Cases
Last updated: 01-04-2020 - 08:16 PM

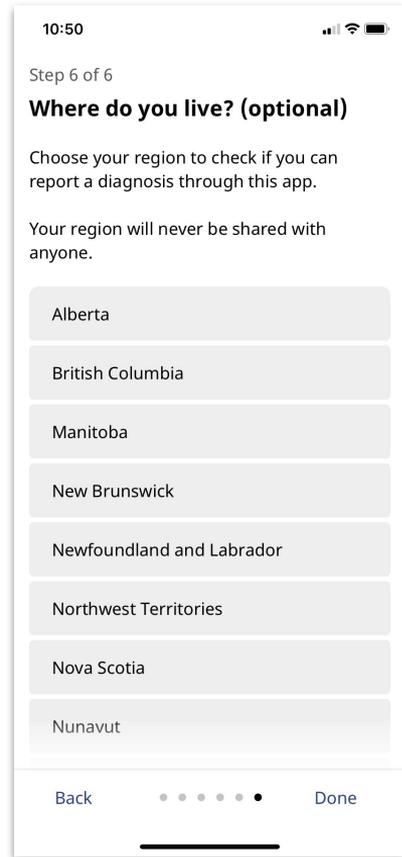
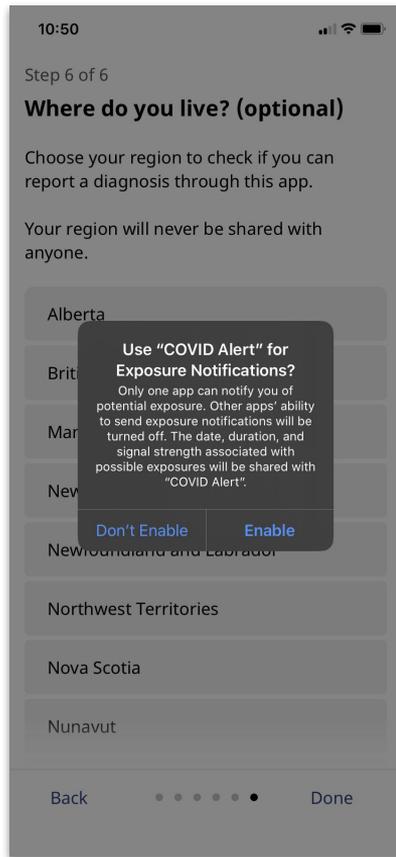
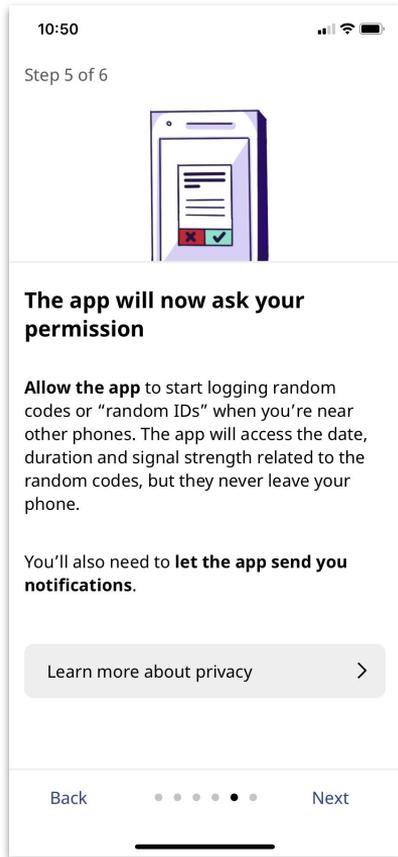
Total Tested	31330
Active Cases	215
Critical Cases	1
Stable Cases	12
Discharged Cases	254

Home | Dashboard | Information | Global Statistics

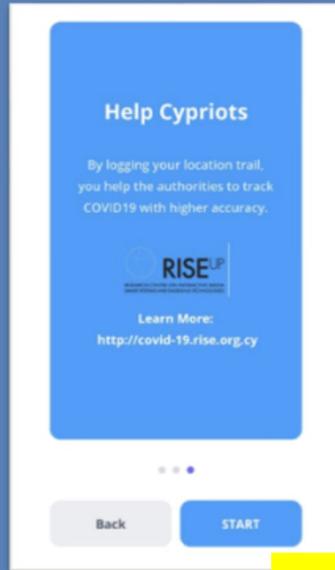
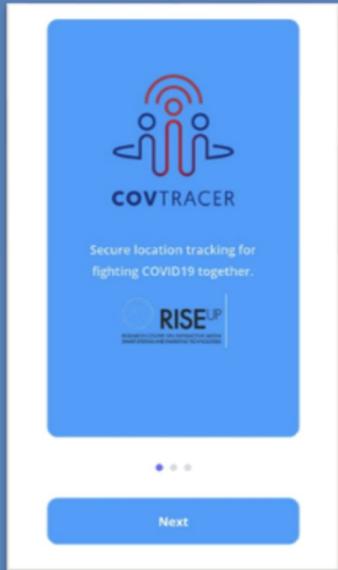
Source: <https://play.google.com/store/apps/details?id=bh.bahrain.corona.tracker>







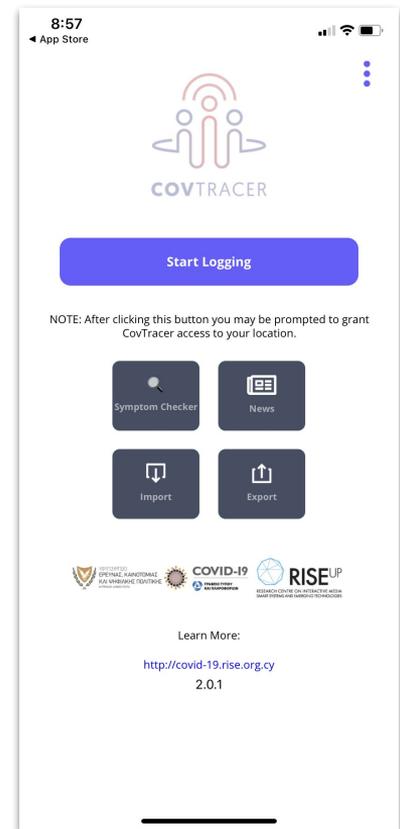
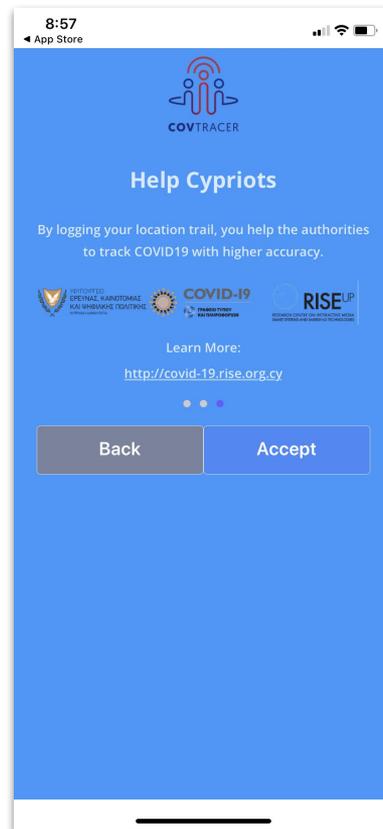
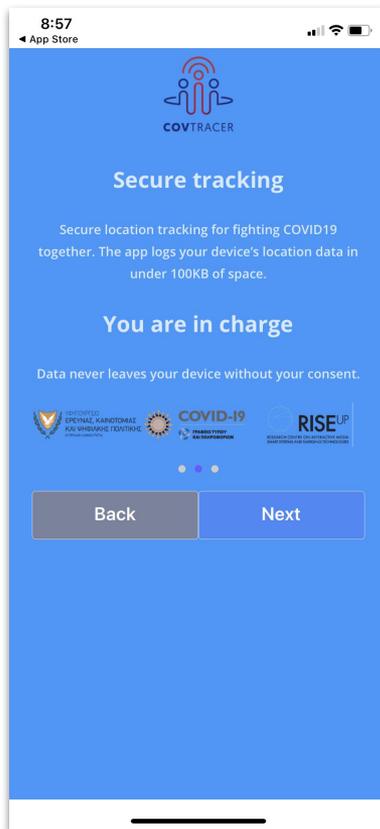
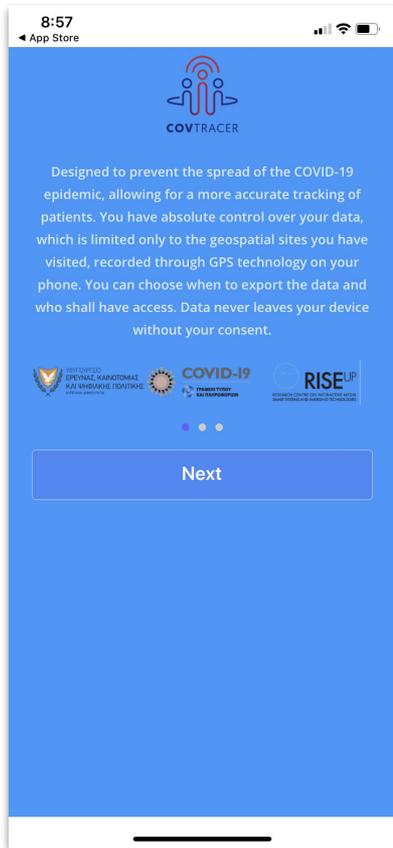
APP INSTALLATION

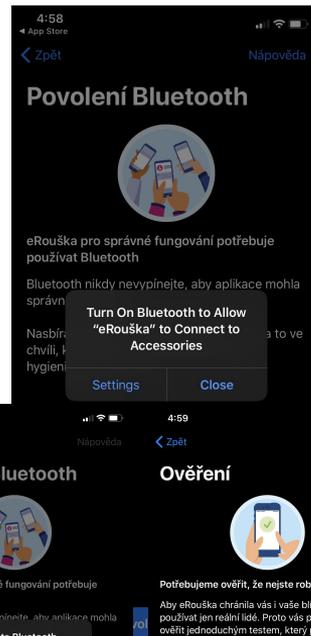
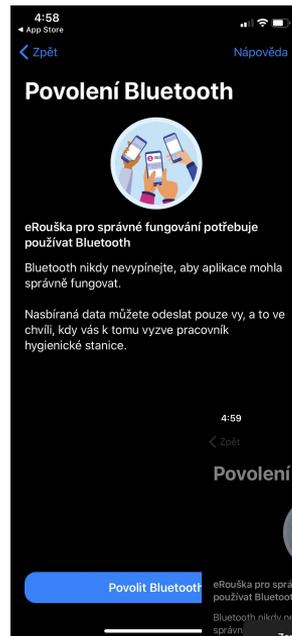
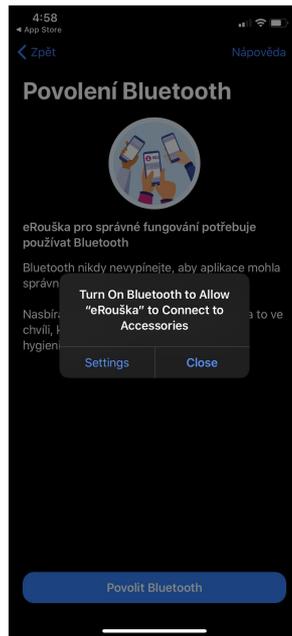
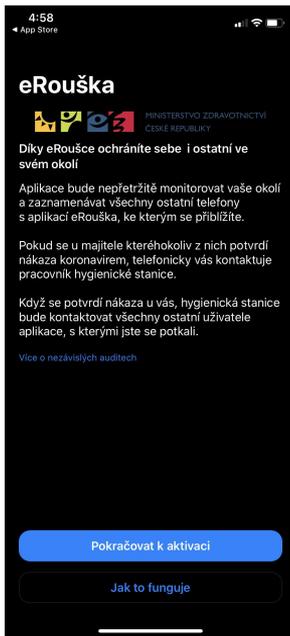


STARTING USING THE APP

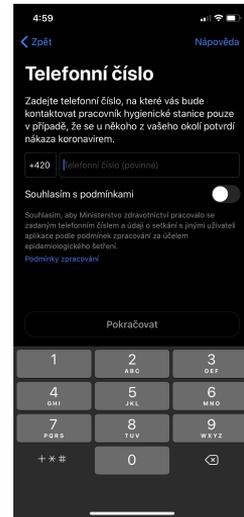
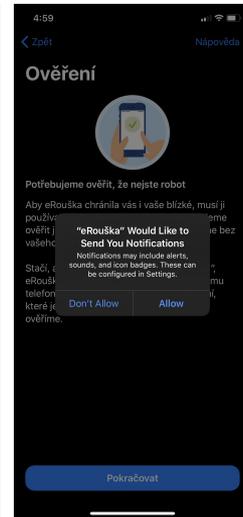
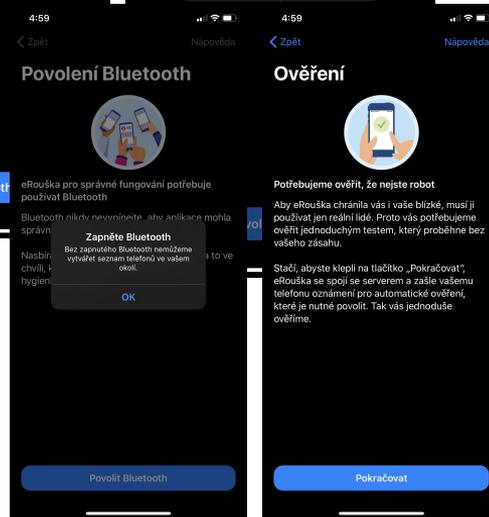


Cyprus highlights 1-2 pages of app context before launching the user onto the home screen of the app for logging information.



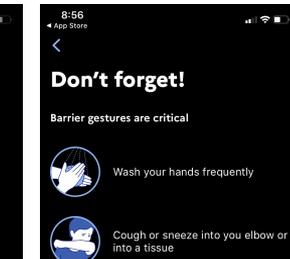
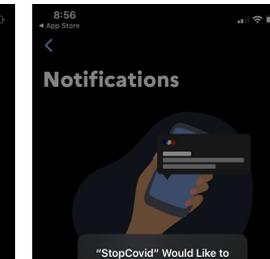
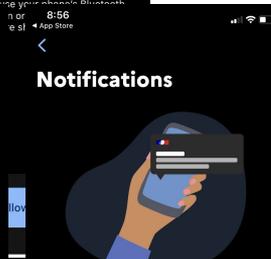
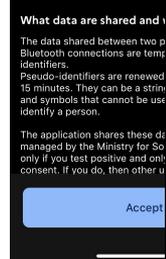
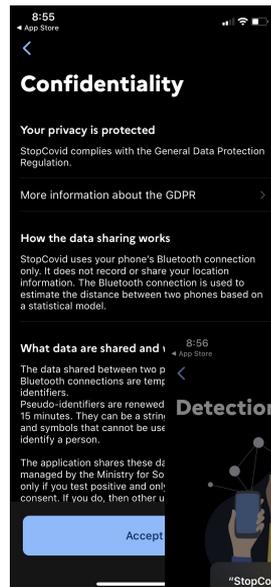
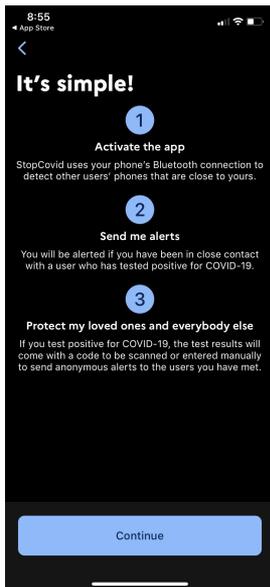


Czech's onboarding is similar to France's: similar graphical layout and onboarding features (step by step) details before permissions.

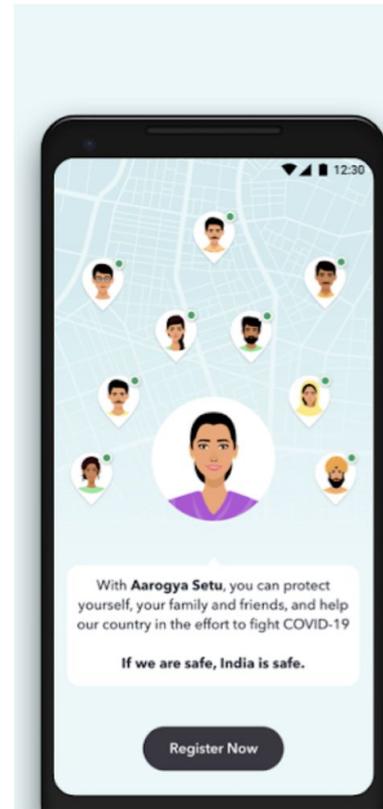
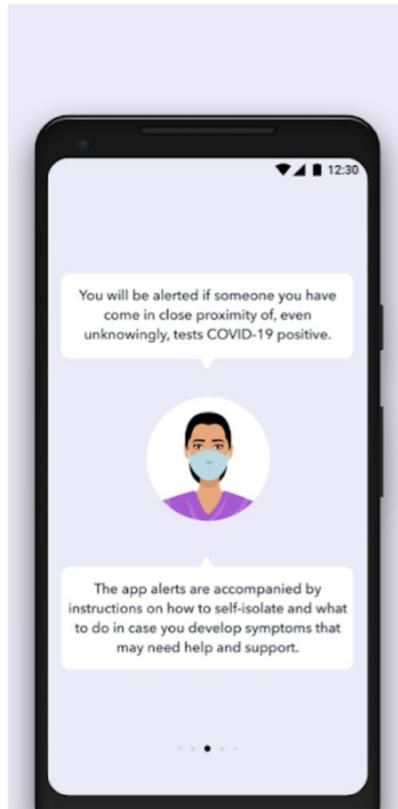
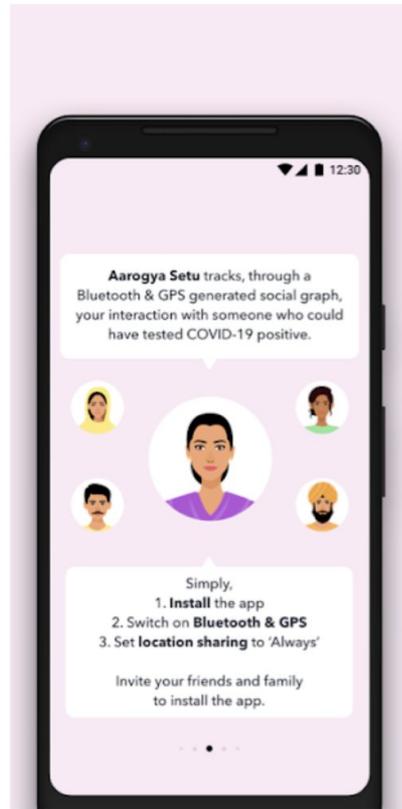
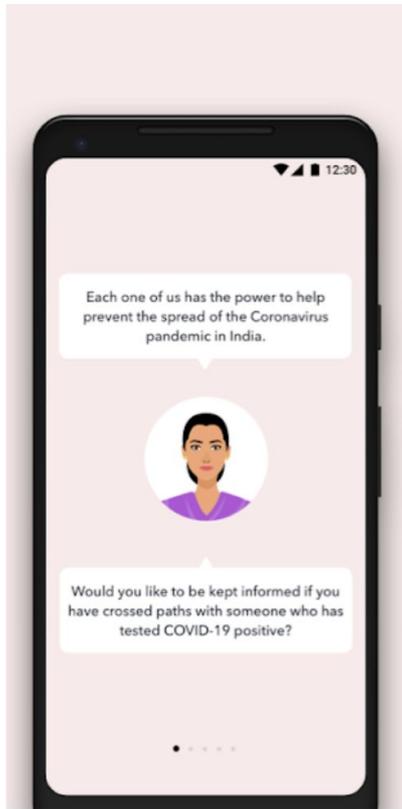


Czech Republic
eRouska

iOS app, version: 1.1, accessed July 02, 2020



France includes a comprehensive “3-step” summary up front, and goes through each category step by step. Before ending onboarding, they include a series of public health reminders.



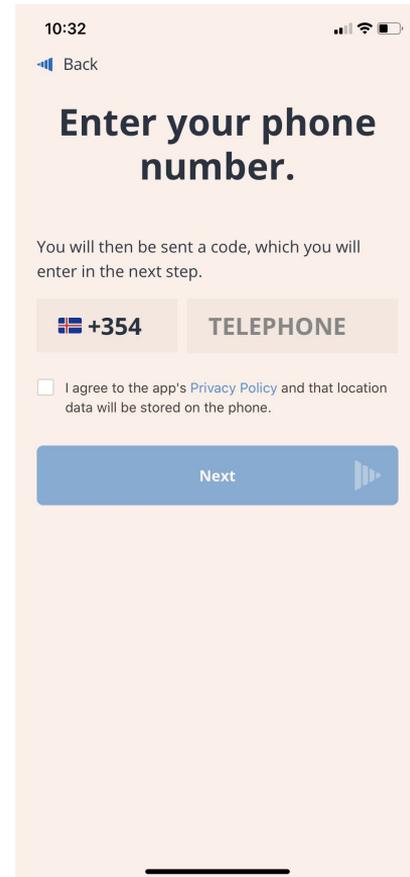
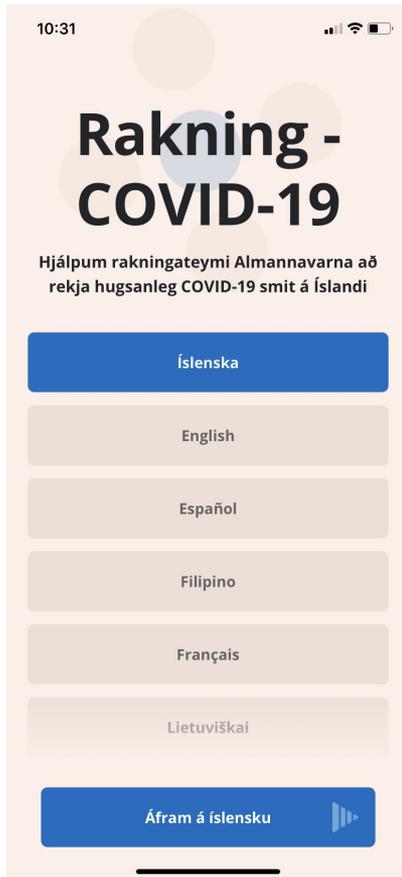
India
Aarogya Setu

Source: <https://play.google.com/store/apps/details?id=nic.goi.aarogyasetu>

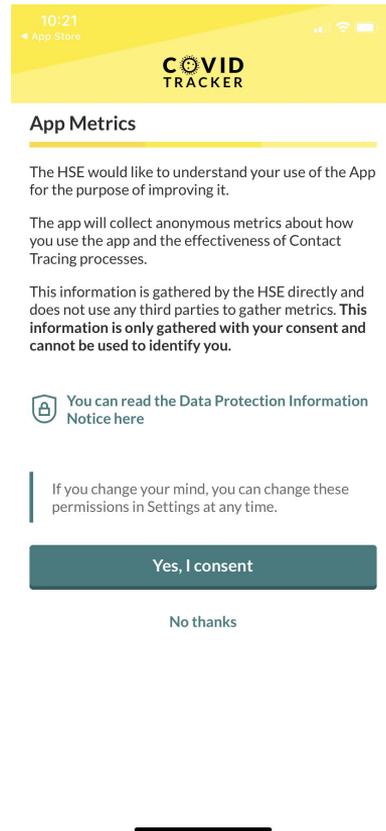
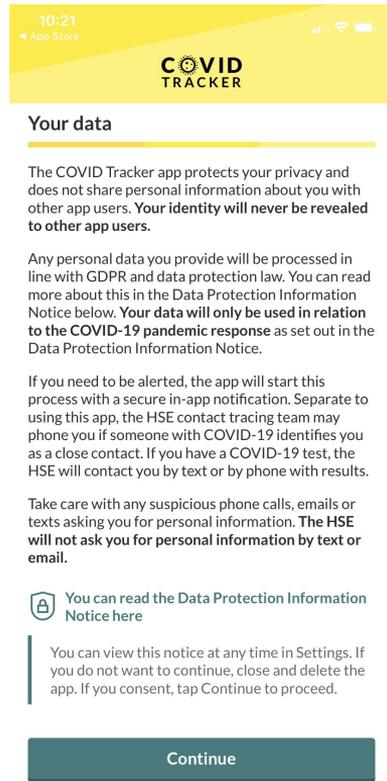
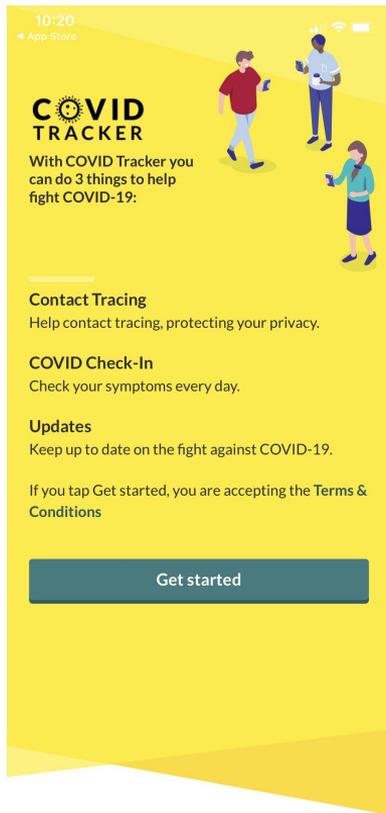


Iceland

<https://play.google.com/store/apps/details?id=is.la.ndlaeknir.rakning>



Iceland
iOS app version 2.0.0, accessed July 02, 2020



Ireland COVID Tracker
iOS app accessed July 20, 2020
Version 1.0.1



Data Protection Information Notice

Version 1.01 - Updated 13/7/2020 - Section 9.1 updated to reflect that two of the third party data processors listed do not have access to user data.

1. Introduction

The purpose of this privacy information notice is to explain how the COVID Tracker App (the 'app') works, what data is collected by the app, who has access to that data and the purposes for which the data is used. This notice also provides you with information about your data protection rights under data protection law, including under the EU General Data Protection Regulation (EU Regulation 679/2016) ('the GDPR').

The app is available to download for free from the Apple App Store and the Google Play Store. Use of the app by you is completely voluntary - it is your choice to download it, your choice to keep it on your device, your choice to opt-in to and use the different services that are available on the app, and your choice to delete it. You will never be required to use the app in order to access other services from the HSE or Department of Health. You will be given a separate opt-in (consent) for each service that processes your personal data in the app. You can withdraw your consent(s) at any time.

The app runs on iPhones that support iOS 13.5 and higher, and Android phones running Android 6.0 and higher. The app is not intended for use by persons under 16 years of age, as they are considered not to have reached the digital age of consent. You will be asked to confirm that you are 16 years or older after you download the app.

2. The Data Controllers

=====



Contact Tracing

Contact tracing helps prevent the spread of COVID-19.



This app supports the work of the HSE's Contact Tracing teams, but those teams may also contact you as part of manual contact tracing.

The app will send you a Close Contact Alert if you have been in close contact with someone who has tested positive for the virus.

To enable Contact Tracing for this app you need to turn on:

✦ Exposure Notification Service

and to get an alert you need to turn on:

🔔 Notifications

If you change your mind, you can change your permissions in Settings at any time.

Continue

Maybe later



Contact Tracing

Contact tracing helps prevent the spread of COVID-19.



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If you change your mind, you can change your permissions in Settings at any time.

Continue

Maybe later

Use "COVID Tracker Ireland" for Exposure Notifications?

Only one app can notify you of potential exposure. Other apps' ability to send exposure notifications will be turned off. The date, duration, and signal strength associated with possible exposures will be shared with "COVID Tracker Ireland".

Don't Enable Enable



Contact Tracing

Contact tracing helps prevent the spread of COVID-19.



This app supports the work of the HSE's Contact Tracing teams, but those teams may also contact you as part of manual contact tracing.

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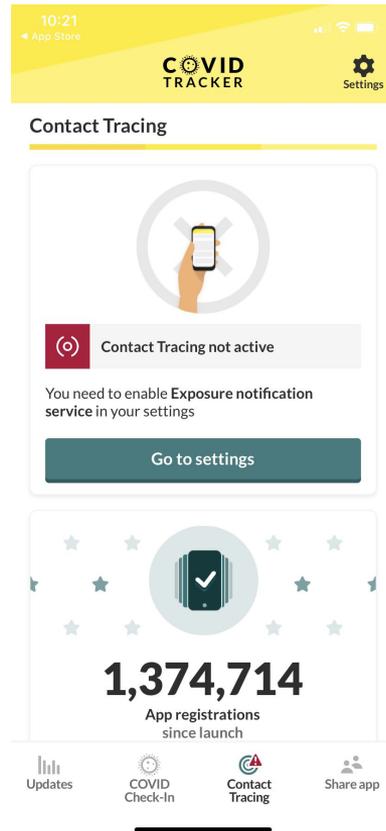
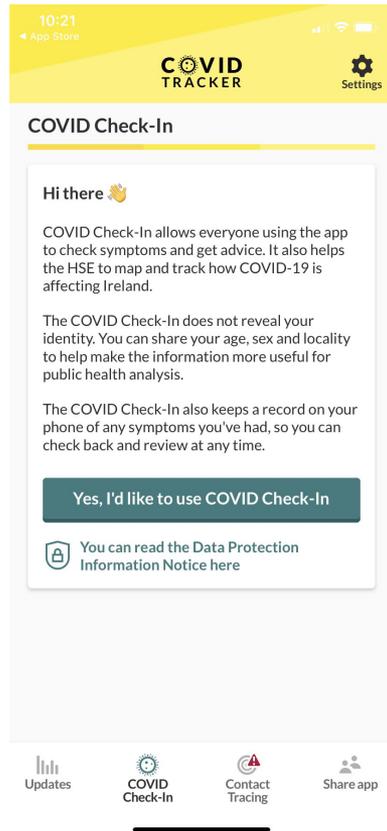
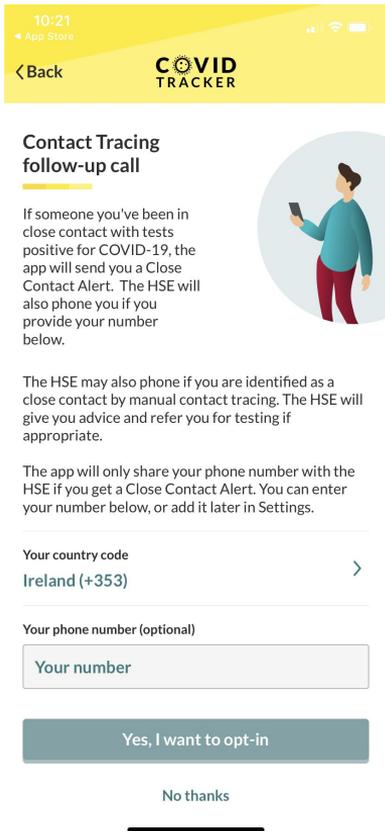
Maybe later

"COVID Tracker Ireland" Would Like to Send You Notifications

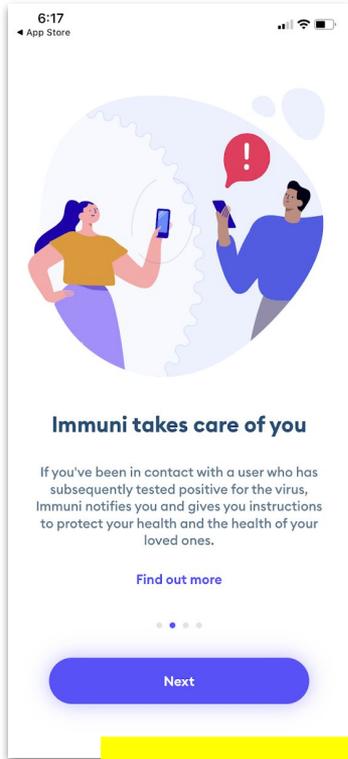
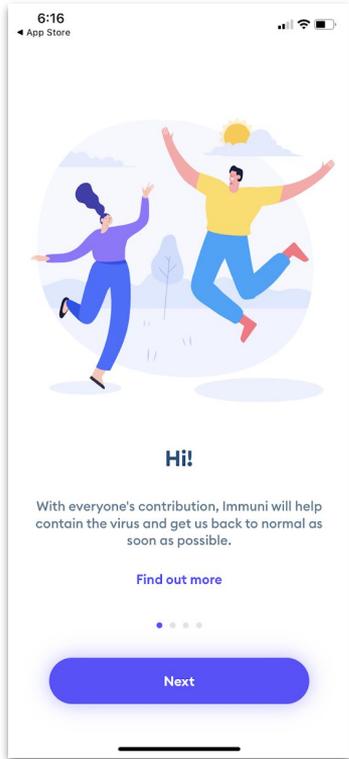
Notifications may include alerts, sounds, and icon badges. These can be configured in Settings.

Don't Allow Allow

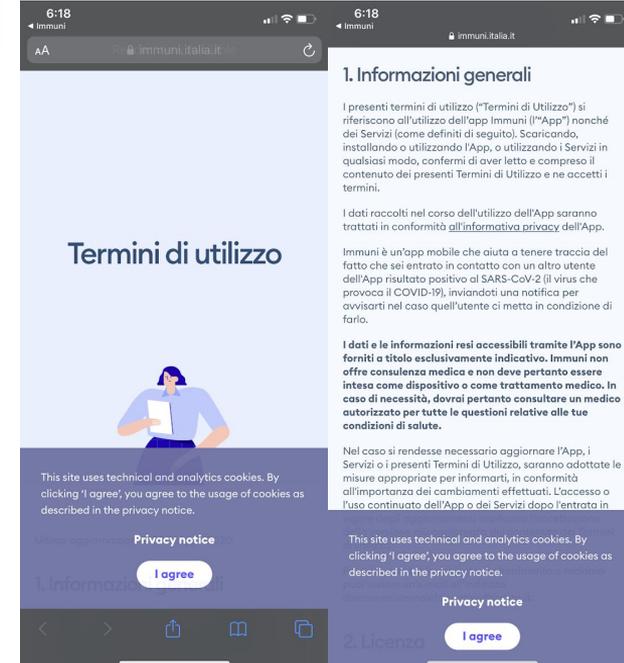
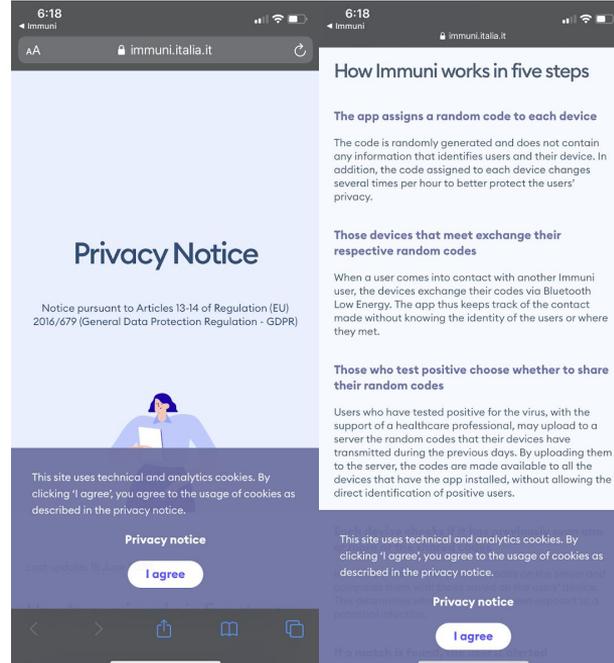
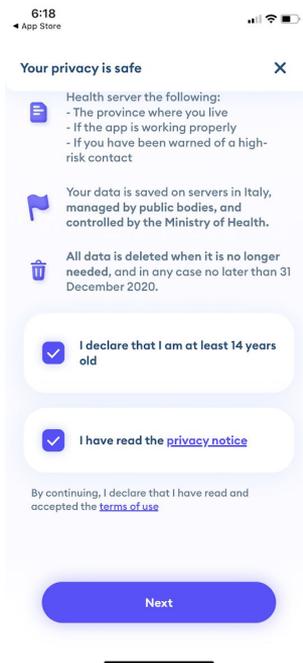
iOS app accessed July 20, 2020
Version 1.0.1



iOS app accessed July 20, 2020
Version 1.0.1



This app shows a series of screens explaining how the app is valuable on a high level before going into more granular details and permission gathering.





Bagaimana MyTrace berfungsi?

Dengan menggunakan aplikasi ini, anda akan membantu KKM untuk mengesan kontak yang berada dekat dengan pesakit COVID19.

Data kontak disimpan di peranti anda dan KKM akan meminta persetujuan anda agar data anda boleh digunakan untuk tujuan pengesanan.

How MyTrace works?

By using the app, you will help the MOH to trace persons that are in close contact with a COVID19 patient

Register

Device Status



Terima Kasih

kerana terus menggunakan MyTrace. Dengan terus menggunakan aplikasi ini, anda akan membantu KKM memutuskan rantaian Covid-19.

Thank You

for using MyTrace. By continuing to use the app, you will help the MOH to break the Covid-19 chain.

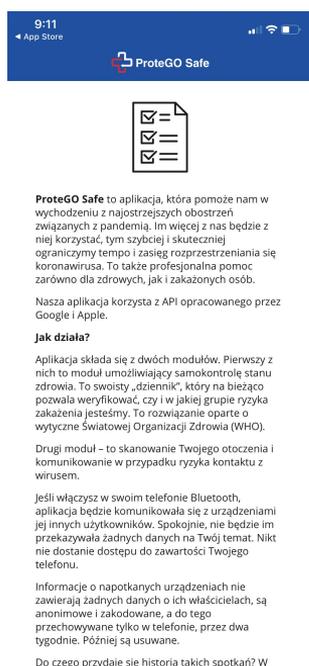
Close



Home



Upload



Wszystko w Twoich rękach. Ta wersja aplikacji korzysta z narzędzi systemów iOS/Android do powiadamiania o możliwym kontakcie z koronawirusem.

Pozwól, by aplikacja anonimowo rejestrowała spotkania z innymi urządzeniami. Dzięki temu, gdy użytkownik, któregoś z nich zachoruje, otrzymasz odpowiednie powiadomienie. Zadbaj o swoje i swoich bliskich zdrowie.

[Więcej informacji](#)

DALEJ

Nie powiadajam mnie o zagrożeniach

gov.pl

govtech



ProteGO Safe to aplikacja, która pomoże nam w wychodzeniu z najostrejszych obostrezeń związanych z pandemią. Im więcej z nas będzie z niej korzystała, tym szybciej i skuteczniej ograniczymy tempo i zasięg rozprzestrzeniania się koronawirusa. To także profesjonalna pomoc zarówno dla zdrowych, jak i zakażonych osób.

Nasza aplikacja korzysta z API opracowanego przez Google i Apple.

Jak działa?

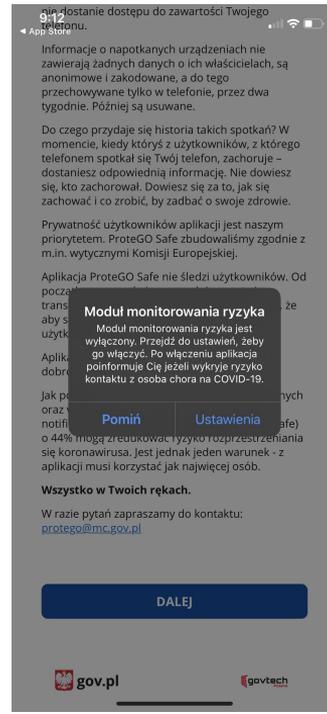
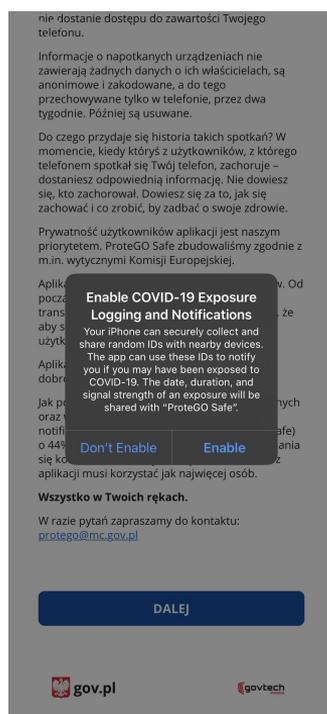
Aplikacja składa się z dwóch modułów. Pierwszy z nich to moduł umożliwiający samokontrolę stanu zdrowia. To swoisty „dziennik”, który na bieżąco pozwala weryfikować, czy i w jakiej grupie ryzyka zakażenia jesteśmy. To rozwiązanie oparte o wytyczne Światowej Organizacji Zdrowia (WHO).

Drugi moduł – to skanowanie Twojego otoczenia i komunikowanie w przypadku ryzyka kontaktu z wirusem.

Jeśli włączysz w swoim telefonie Bluetooth, aplikacja będzie komunikowała się z urządzeniami jej innych użytkowników. Spokojnie, nie będzie im przekazywała żadnych danych na Twój temat. Nikt nie dostanie dostępu do zawartości Twojego telefonu.

Informacje o napotkanych urządzeniach nie zawierają żadnych danych o ich właścicielach, są anonimowe i zakodowane, a do tego przechowywane tylko w telefonie, przez dwa tygodnie. Później są usuwane.

Do czego przydadzie się historia takich spotkań? W momencie, kiedy któryś z użytkowników, z którego telefonem spotkał się Twój telefon, zachoruje – dostaniesz odpowiednią informację. Nie dowiesz się, kto zachorował. Dowiesz się za to, jak się zachować i co zrobić, by zadbać o swoje zdrowie.





Włącz powiadomienia

Do prawidłowego działania aplikacji potrzebna jest Twoja zgoda na wyświetlanie powiadomień. Kliknij poniżej i pozwól ProteGO Safe wspierać ochronę zdrowia każdego z nas.

DALEJ

Nie powiadamiam mnie o zagrożeniach



Włącz powiadomienia

Do prawidłowego działania aplikacji potrzebna jest Twoja zgoda na wyświetlanie powiadomień. Kliknij poniżej i pozwól ProteGO Safe wspierać ochronę zdrowia każdego z nas.

"ProteGO Safe" Would Like to Send You Notifications
Notifications may include alerts, sounds, and icon badges. These can be configured in Settings.

Don't Allow Allow

Nie powiadamiam mnie o zagrożeniach



Powiadomienia o narażeniu na kontakt z COVID-19



Nowość w aplikacji: powiadomienia o możliwym kontakcie z koronawirusem.

DALEJ



Włącz się do wspólnej walki przeciwko koronawirusowi



Dbaj o siebie! Regularnie sprawdzaj, czy jesteś w grupie ryzyka

DALEJ



Włącz się do wspólnej walki przeciwko koronawirusowi



Uzupełniaj Dziennik Zdrowia

DALEJ

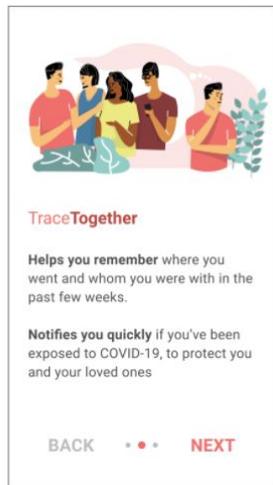
Poland uses a series of simple iconography to highlight each step of the onboarding process.



1. Scan QR code or go to tracetgether.gov.sg to download the app.

The app is now available in **more languages**.

The app bundles a series of explainer text before asking the user to launch into data input (mobile phone number, personal details). This pattern is seen in other apps.



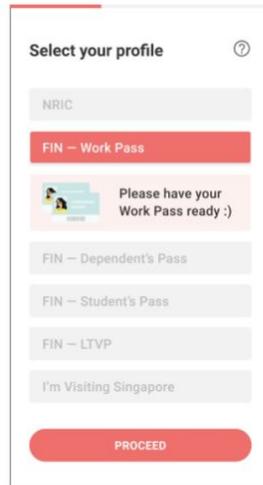
2. Launch the app.

The first few pages explain the benefits of using the app.



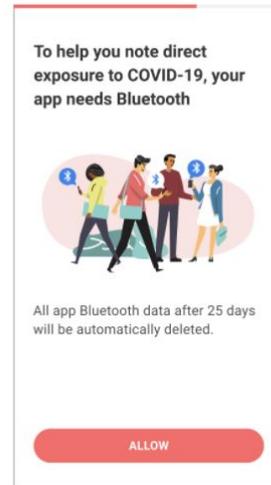
3. Register using your mobile number.

Enter the **One-Time Pin** sent to you via SMS.

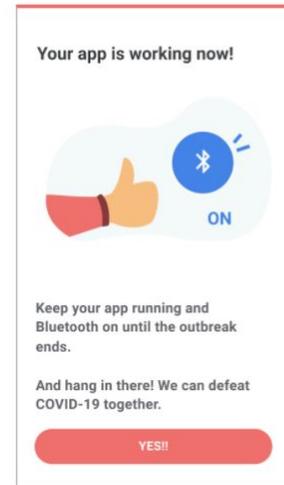


4. Select your profile and enter your details.

Your unique ID helps MOH reach the right person when they need to contact you.



5. Enable Bluetooth and other app permissions.



6. Set up completed!

Keep Bluetooth on, and keep your app open in the background until the end of the outbreak.

What is TraceTogether and how does it work?

TraceTogether is a contact-tracing smartphone app that enables the Ministry of Health (MOH) to quickly track people who have been exposed to confirmed coronavirus cases.

1 Users here can download the app on the Apple App Store or the Google Play Store.

SCAN TO DOWNLOAD



2 Users have to input their mobile phone number for MOH to be able to contact them quickly. The number is the only data collected by the Government through the app.



3 During the initial set-up, users have to give their explicit consent to be able to use the app.



4 Users will then have to enable push notifications and location permissions, and keep the Bluetooth function on their phones turned on.



5 This is because the app uses short-distance Bluetooth signals that are exchanged between phones to detect other TraceTogether users in close proximity.



6 Official contact tracers who call users will provide a code that users can match with a corresponding verification code on their app.

- Once authenticated, users will be given a PIN number that allows submission of logs when entered.
- Official contact tracers will not ask for personal financial details or transfer of money.



Sources: GOVTECH, MINISTRY OF HEALTH PHOTOS: GOVTECH STRAITS TIMES GRAPHICS

Singapore Trace Together

<https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.straitstimes.com%2Ftech%2Fsingapore-app-allows-for-faster-contact-tracing&psig=AOvVaw2ICWe-O1PdaliLebOKjwIP&ust=1591709524377000&source=images&cd=vfe&ved=0CAIQJrxqFwoTCJiXs5mq8ukCFQAAAAAdAAAAABAQ>

Step 1

Enter your mobile number to be contacted

+ 65 91234567

We'll text you a One-Time Pin (OTP).

Setting up for your family? Use their number instead of yours.

Get OTP

Step 2



"TraceTogether" Would Like to Send You Notifications

Notifications may include alerts, sounds and icon badges. These can be configured in Settings.

Don't Allow

Allow

I turned on Bluetooth

Step 3



Turn on your Bluetooth

Do this from Control Center or go to Settings.

Then come back to the app to confirm.

I turned on Bluetooth

Step 4



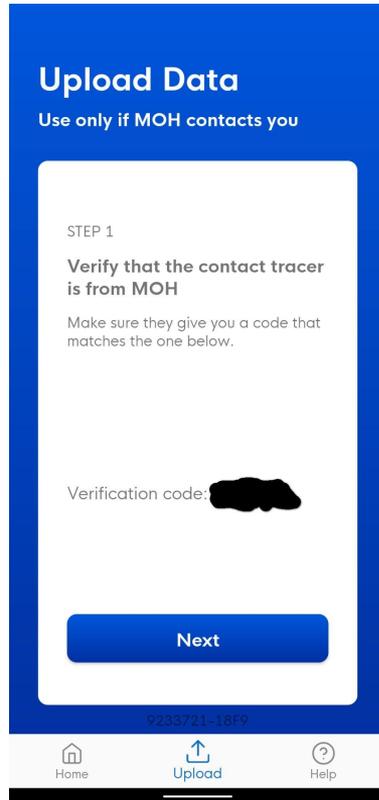
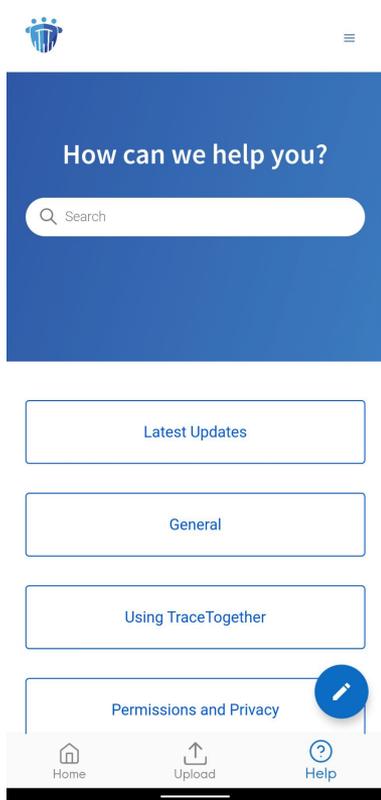
App permissions are fully set up

Please leave all settings on until the outbreak ends.

Continue

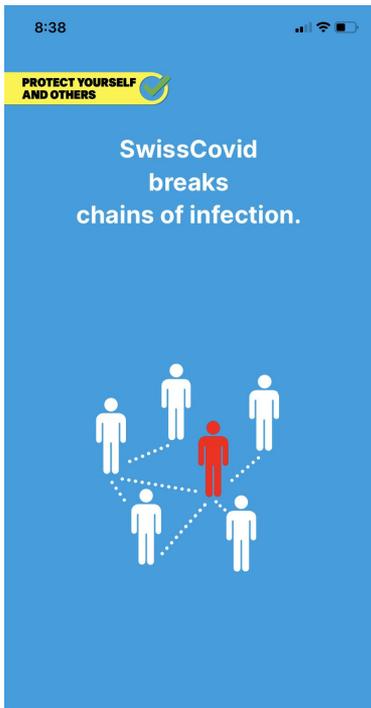
Singapore Trace Together

<https://www.google.com/url?sa=i&url=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FTraceTogether&psig=AOvVaw2ICWe-O1PdaliLeBOaKjwIP&ust=1591709524377000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCJiXs5mq8ukCFQAAAAAdAAAAABAY>



Singapore
Trace Together

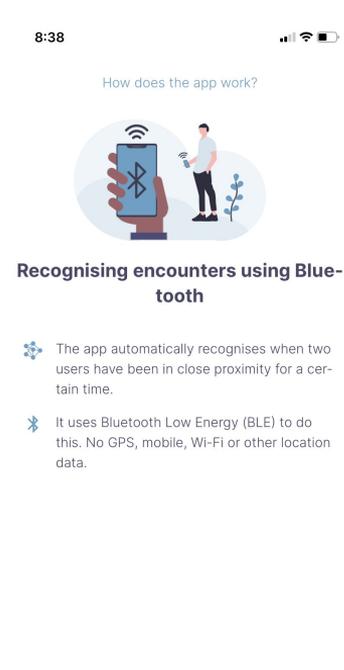
<https://www.gizmodo.com.au/2020/03/how-coronavirus-tracking-app-tracetogogether-works/>



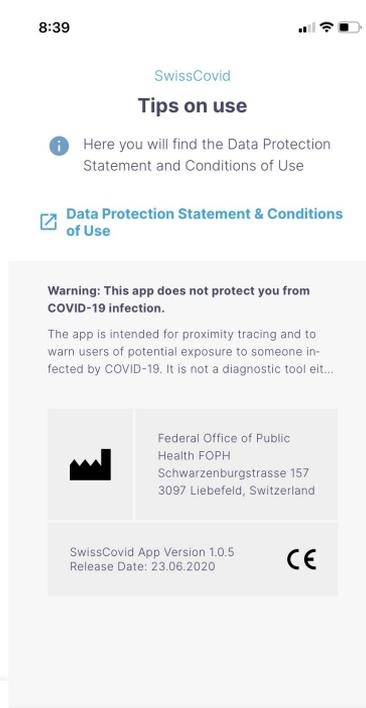
Continue



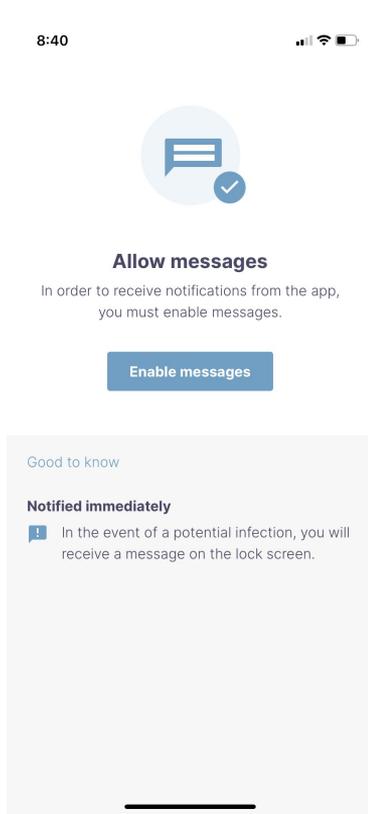
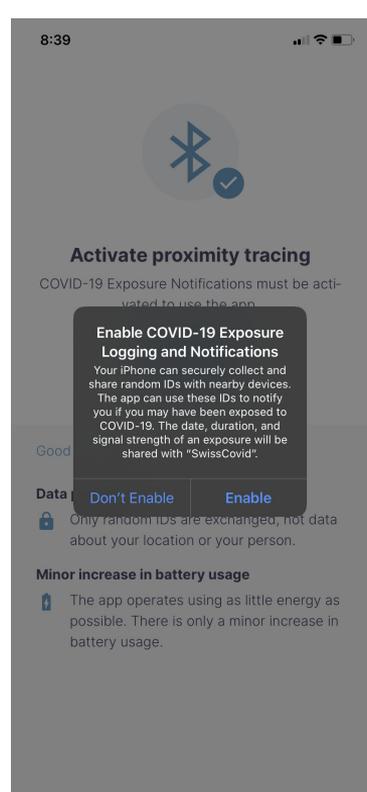
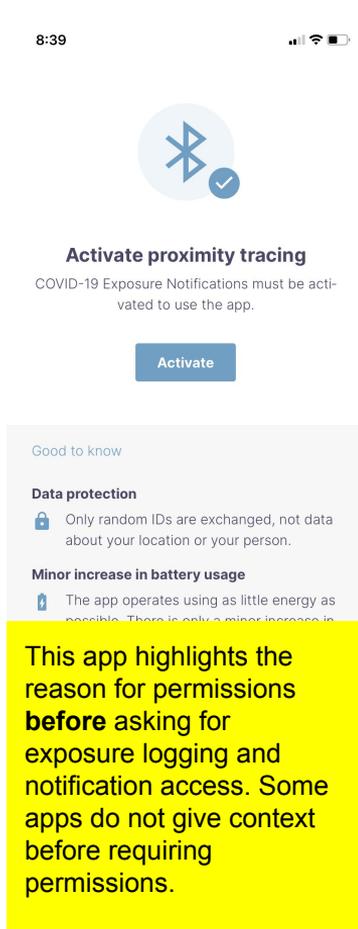
Continue



Continue



Accept





This application protects you and your surroundings from Corona virus T.C. It was developed by the Ministry of Health.



Risk Areas

When you allow location services, the app will alert you when you approach risky areas, and you will be able to see areas on the map that you should not approach instantly.



Turkey
Hayat Eve Siğar

<https://apps.apple.com/tr/app/hayat-eve-sigara/id1505756398?l=tr>



Hayat Eve Sığar

Bu uygulama seni ve çevrendekileri Corona virüsünden korumak için T.C. Sağlık Bakanlığı tarafından geliştirilmiştir.

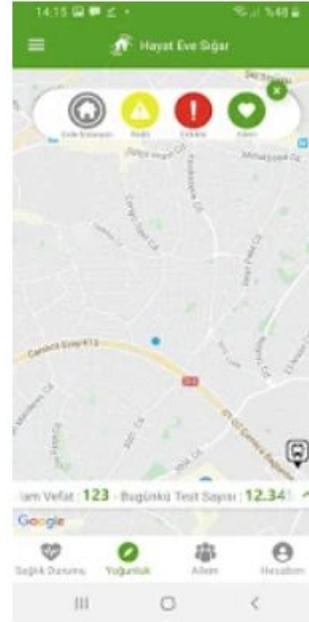
İLERLE



Risk Bölgeleri

Konum servislerine izin verdiğinde, uygulama, seni, riskli bölgelere yaklaştığında uyaracak ve haritada anlık olarak yaklaşmaman gereken alanları gösterebileceksin.

İLERLE





If you develop symptoms, please come back to this app.

Turn off your Bluetooth when you put on your PPE

Your interactions at work should not be captured when you are wearing personal protective equipment.

Close

NHSX

This message has been placed in the app, for healthcare workers

UK
NHS COVID-19 App

<https://www.bbc.com/news/technology-52551273>
Users will be asked to enter the first part of their postcode but not their name or other personal details

3.2: Visible data settings

Key questions

- Are the settings on one of the main navigation tabs of the app? If so, which?
- Does the home or main tab have setting toggles (ability to turn on/off bluetooth, location, etc.)? How is this displayed?
- Based on the on/off elements, what specifically can be turned on or off?

Sub-themes and findings:

- **(16 of 32) apps that we had access to featured settings, app permissions, and data collection features are placed one of the main tabs:**
 - 9 of 16 are on the home tab (Alberta Canada, Austria, Canada, Cyprus, Czech Republic, Italy, Malaysia, Netherlands, Switzerland)
 - 3 of 16 are not on the home tab (France - Protect tab, Ireland - Contact Tracing, US North Dakota - Visits, Protect, About)
 - 4 of 16 unable to tell which tab (Australia, Germany, Singapore, North Macedonia)
- **On vs. off design elements.** One UI element that is in several apps are the “on versus off” design for permissions, location sharing, or other types of data sharing are shown in a variety of ways:
 - 2 of 16 show checkmarks (Alberta Canada, Czech Republic)
 - 6 of 16 show cards with “active” text (Australia, Germany, Italy, Switzerland, Singapore)
 - 2 of 16 show toggle on/off (Austria, North Macedonia)
 - 4 of 16 feature button on/off (Canada, Cyprus, France, US - North Dakota)
 - 1 of 16 features ionography with on/off text (Malaysia)
 - 1 of 16 features color-coded background toggle (Netherlands)
- **Data controls. Based on the on vs. off elements, what specifically can be turned on or off?**
 - 2 of 16 show bluetooth (Alberta Canada, Cyprus, North Macedonia)
 - 1 of 16 shows notifications (Alberta Canada)
 - 1 of 16 shows exposure notifications (Canada)
 - 1 of 16 shows location (US - North Dakota)
 - 3 of 16 mention or link to go to your settings to activate bluetooth & location (France, Italy)
 - 2 of 16 show no action on interface, just awareness Bluetooth is on (Australia, Singapore-based on available screen)
 - 2 of 16 show contact registration or proximity tracing is on (Netherlands, Switzerland)
 - 1 of 16 shows “delete data” button which prompts delete app (US North Dakota)
 - 1 of 16 shows remove tracking of home geolocation option (US - North Dakota)
 - 2 of 16 unable to tell which features are specifically (Germany, Italy)

Countries referenced

Note: Screens gathered highlight whether there was **some** evidence of the theme for analysis and comparison; we are not making a judgment or opinion on whether the design choices are good or bad.

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

-  Definite evidence through personal app download
-  Some evidence, the app was not fully tested; used secondary information to infer details

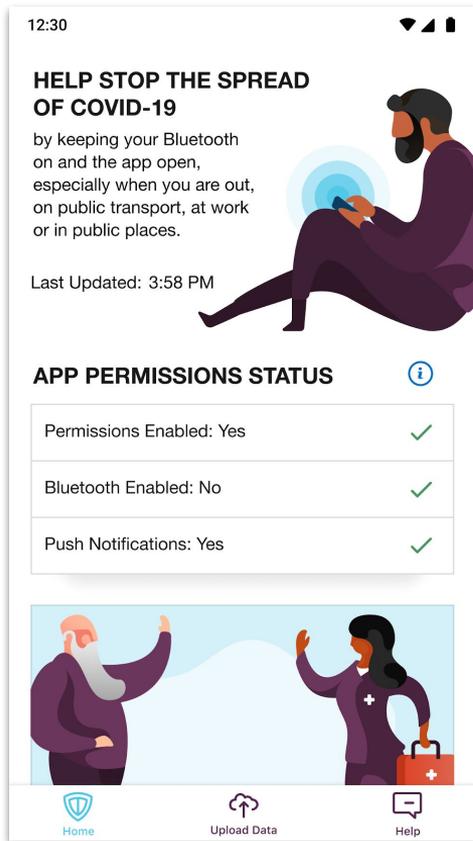
-  1. Alberta, Canada: Unable to download; gathered screenshots through news, media
-  2. Australia: Unable to download; gathered screenshots through news, media
-  3. Austria: Able to download iOS app v 2.0.2; gathered screenshots directly through app and app stores
-  4. Canada: Able to download iOS app v. 1.0.2; gathered screenshots directly through the app
-  5. Cyprus: Able to download; gathered screenshots through iOS v 2.0.1
-  6. Czech Republic: Able to download; gathered screenshots through iOS v 1.1 and Google Play store with Google translation
-  7. France: Able to download; gathered screenshots through iOS v 1.1.1
-  8. Germany: Unable to access the app; gathered screenshots through Google Play Store & Github; unable to translate screenshots in Play Store but github documentation for screen descriptions are written in English
-  9. Italy: Able to download; gathered screenshots through iOS v 1.2.0
-  10. Ireland: Able to download; gathered screenshots through iOS v 1.0.1
-  11. Malaysia: Able to download; gathered screenshots through iOS v 1.0.30 and detailed sequential screenshot documentation available through affiliated website.
-  12. Netherlands: Unable to download; acquired screenshots from clickable PrivateTracer online prototype and secondary media sources (videos); unable to find evidence for this category
-  13. U.S. North Dakota: gathered screenshots through iOS v 3.5;
-  14. North Macedonia: Unable to download; acquired screenshots from App Store and secondary media from affiliated website; found possible evidence for this category with the toggle, but unable to translate this screen to confirm meaning and feature functionality
-  15. Singapore: Unable to download; gathered screenshots through secondary media; found possible evidence for this category
-  16. Switzerland: Able to download iOS app v 1.0.5; gathered screenshots through app directly, and affiliated Fact Sheet

Countries not referenced

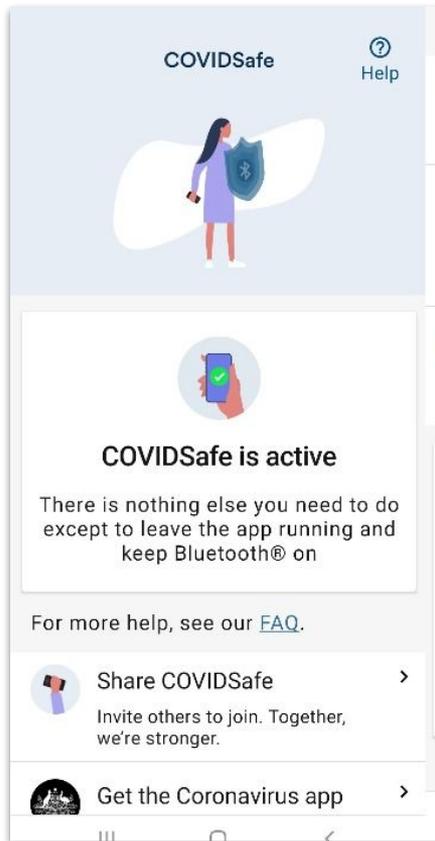
Note: Apps for countries not referenced due to XXXXXXXX FILL THIS IN

This is a work in progress. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

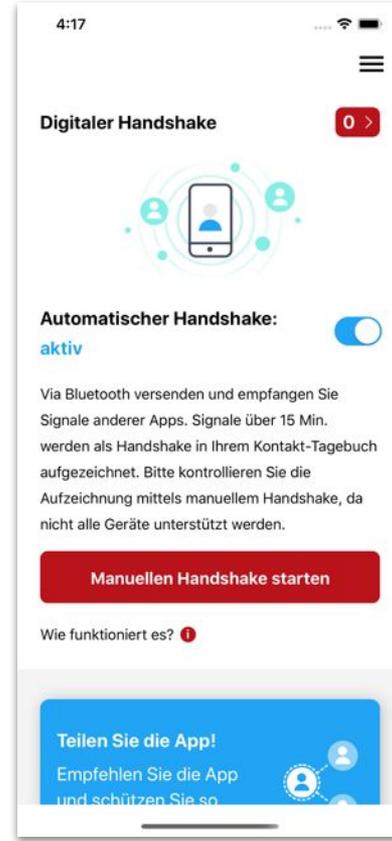
- 1. Bahrain: Unable to download; gathered screenshots through Google Play Store; unable to find evidence for this category
- 2. Bulgaria: Unable to download; unable to translate PNG screenshots from Google Play
- 3. China: Unable to access the app; unable to translate screenshots of the app from news media
- 4. Ghana: Unable to download; acquired screenshots from secondary news sources, unable to find evidence for this category
- 5. Iceland: Able to download; gathered screenshots through iOS v. 2.0.0, unable to find evidence for this category
- 6. India: Research team did not download; gathered screenshots through app store, news, and media, unable to find evidence for this category
- 7. Iran: Unable to download; acquired screenshots from android app store, twitter, news and media, unable to translate screenshots and see evidence for this category
- 8. Israel: Unable to download; acquired screenshots from Google Play store, affiliated websites; unable to find evidence for this category
- 9. Mexico: Able to download; gathered screenshots through iOS v 1.0.1; unable to find evidence for this category
- 10. Norway: Unable to download; acquired screenshots from Google Play Store and unable to see sequential onboarding screenshots so was unable to find evidence for this category
- 11. Poland: gathered screenshots through iOS v 4.2.0; screenshots showed text information before asking for permissions for logging and notifications; unable to translate screens to validate what information is articulated
- 12. Qatar: Able to download; unable to find evidence for this category
- 13. Turkey: Unable to download; acquired screenshots from App Store and Google Play store; unable to find evidence for this category
- 14. UAE: Unable to download; acquired screenshots from app store and secondary media (video) source; unable to find evidence for this category
- 15. UK: Unable to download; acquired screenshots from secondary source news media; unable to find evidence for this category
- 16. U.S. Utah: Able to download iOS v 1.2.1; unable to find evidence for this category



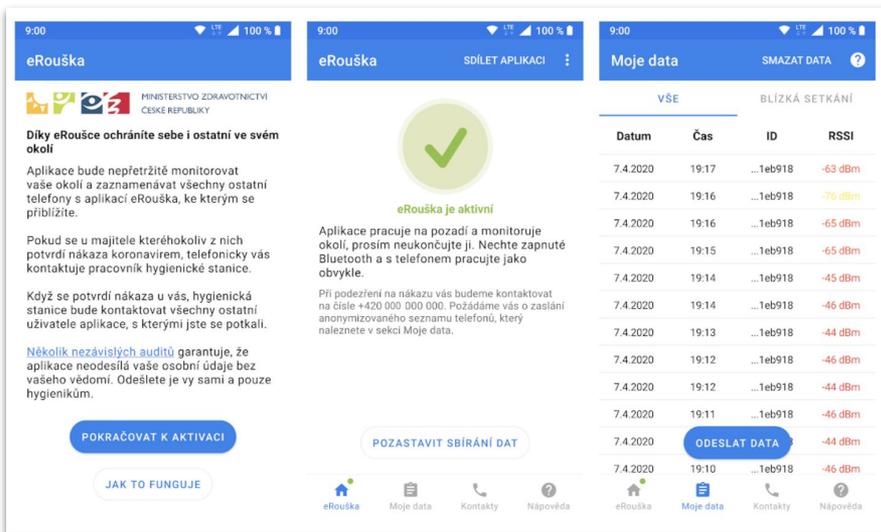
Alberta Canada



Australia
 COVIDSafe
 Source: Blog post

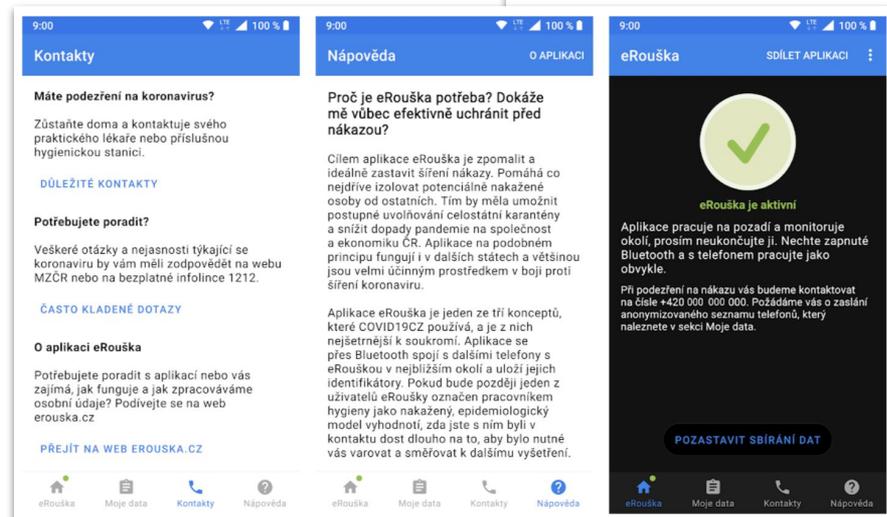
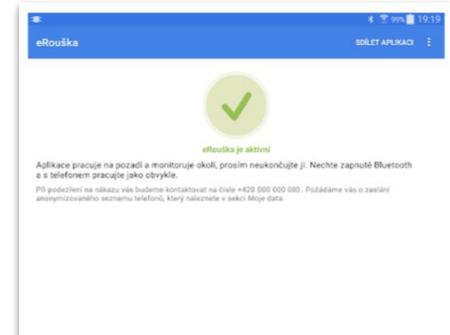


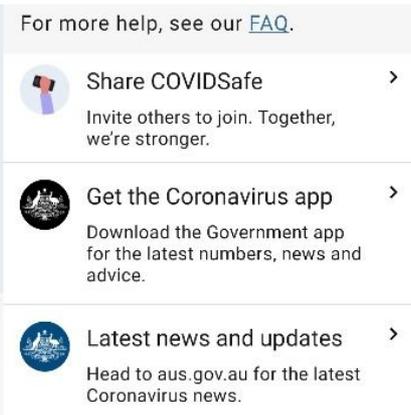
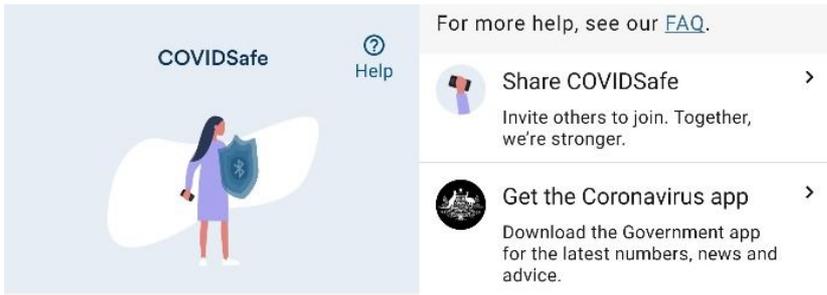
Austria
 STOPP Corona
 Source: App Store



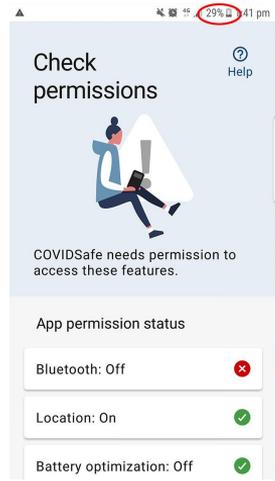
Erouska is active. The application works in the background and monitors the environment, please do not quit it. Leave Bluetooth turned on and work with your phone as usual. Pause Data Collection.

Czech Republic
eRouska
<https://play.google.com/store/apps/details?id=cz.covid19cz.erouska>

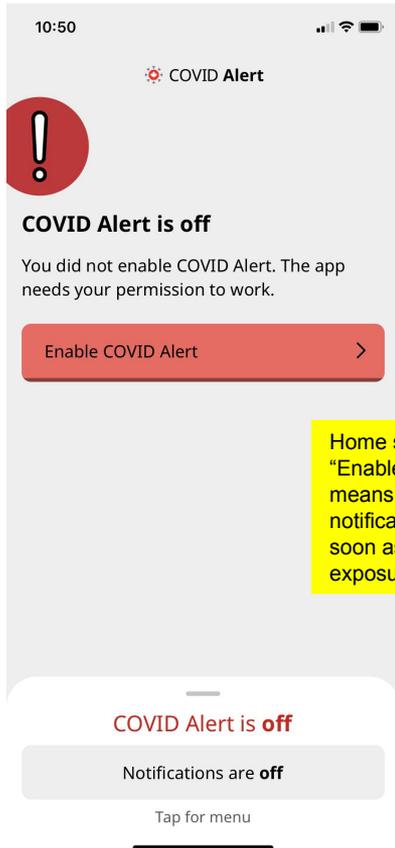




- Please take note**
1. Keep your phone with you when you leave home.
 2. Keep the app running.
 3. Keep Bluetooth® on.

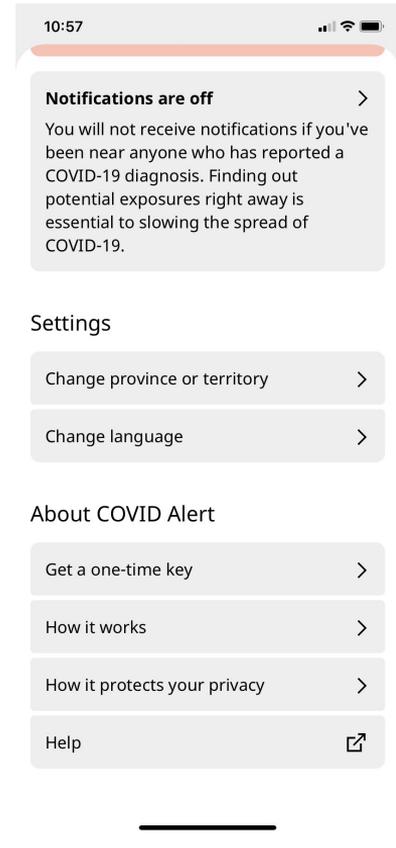
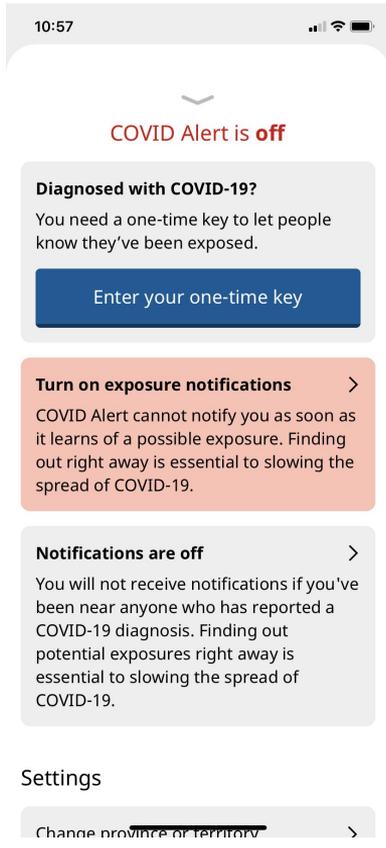


Australia
 COVIDSafe
[Source:](#) Blog post

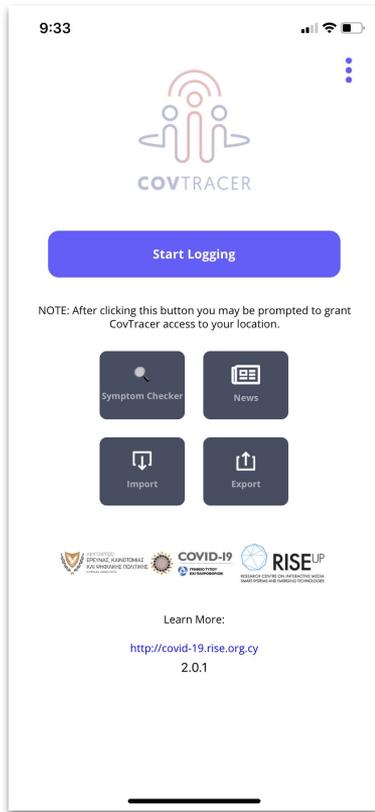


Home screen button highlights "Enable COVID Alert" button which means "Enable exposure notifications" which alerts the user as soon as it learns of a possible exposure.

The home page highlights if the COVID Alert app is off and if notifications are off with button prompts to turn them on.



Canada
 COVID Alert
 Source: iOS app version 1.0.2, accessed 8/01/20



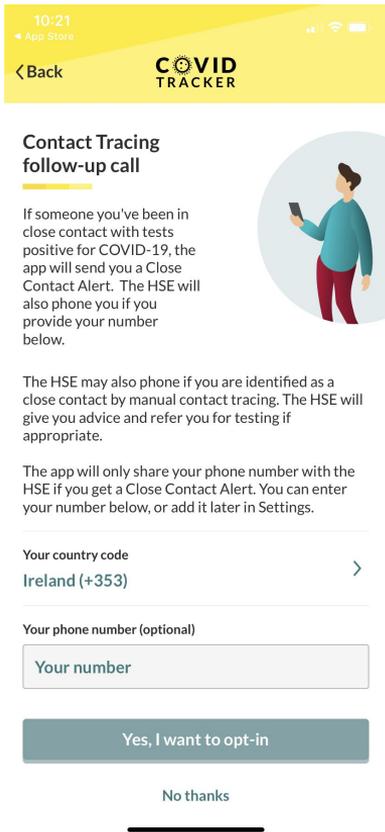
Cyprus
CovTracer
Source: iOS app v.2.0.1



France
StopCovid
Source: iOS app v.1.1.1



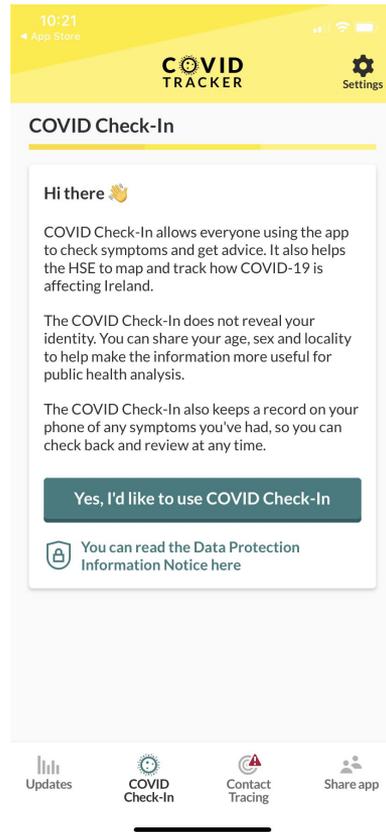
Germany
Corona-Warn-App
Source: [Github](#)



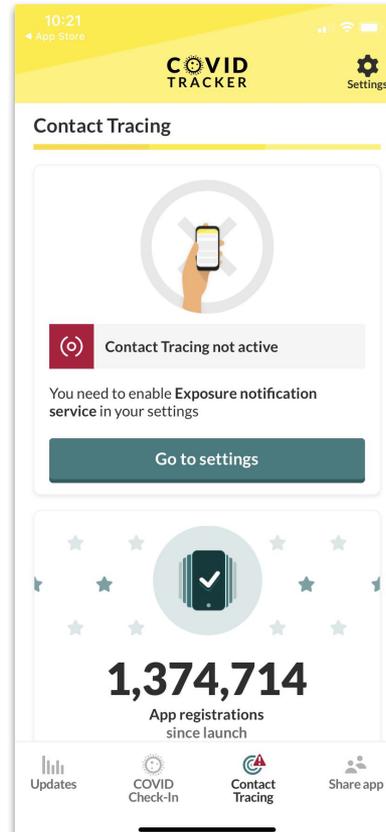
Ireland COVID Tracker
iOS app accessed July 20, 2020
Version 1.0.1



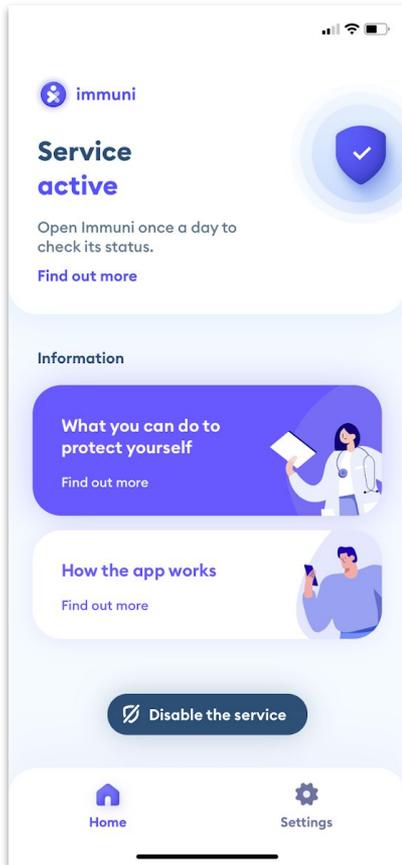
The Updates tab showcases the "COVID Check-In" to nudge users to input their symptoms.



COVID Check-In tab also highlights an opportunity for the user to opt-in to check in with their symptoms.

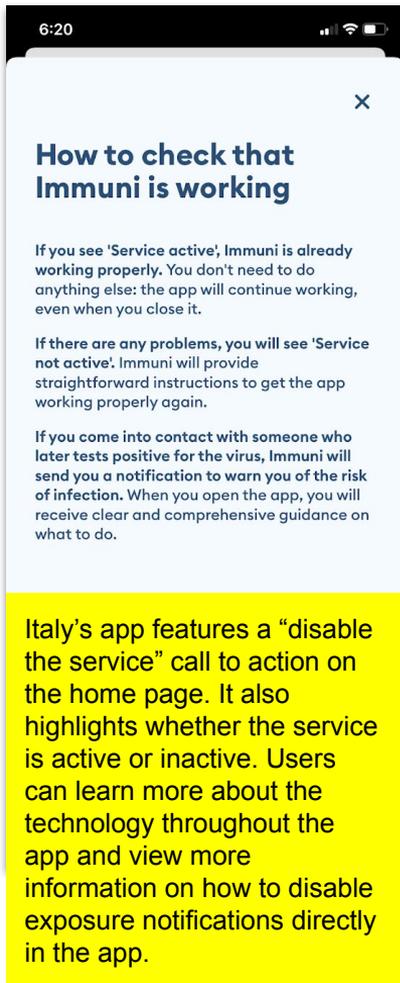


Contact tracing tab highlights that contact tracing is active or not active.

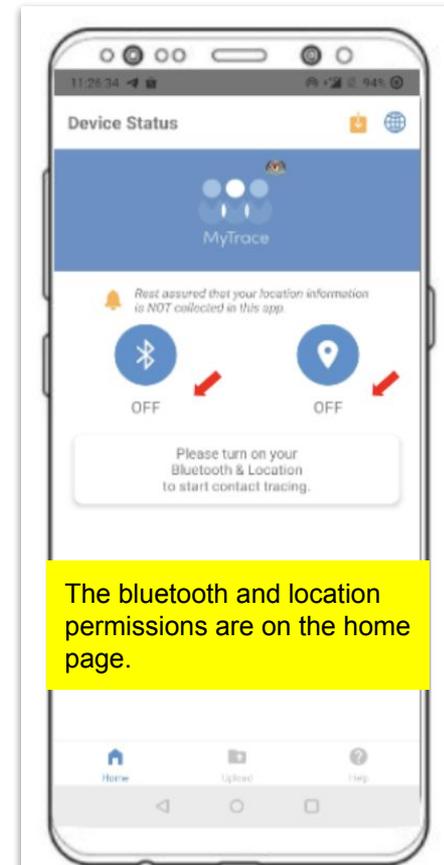
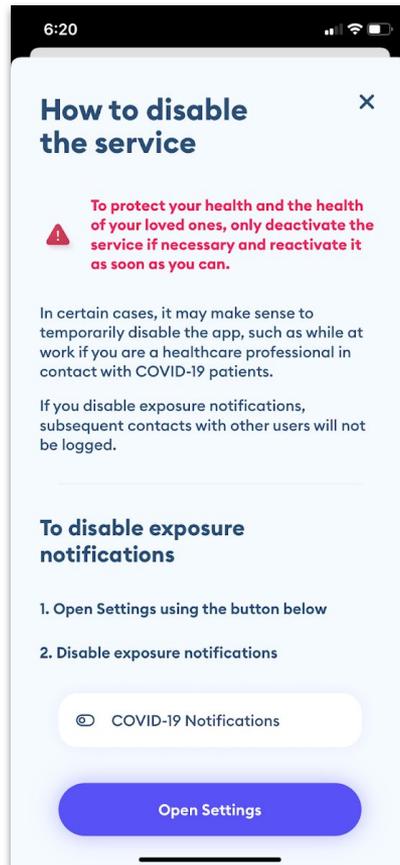


Italy
Immuni

Source: iOS app v.1.2.0



Italy's app features a "disable the service" call to action on the home page. It also highlights whether the service is active or inactive. Users can learn more about the technology throughout the app and view more information on how to disable exposure notifications directly in the app.



The bluetooth and location permissions are on the home page.

Mayasia
MyTrace

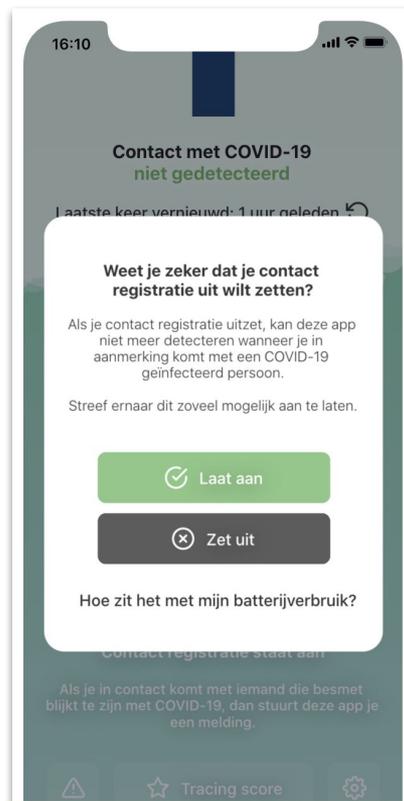
Source: [OS Documentation](#)



The app appears to be default off. The app will not function until the user switches contact registration back on.



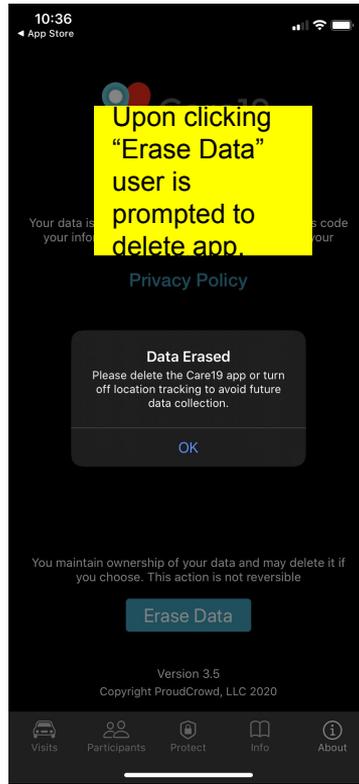
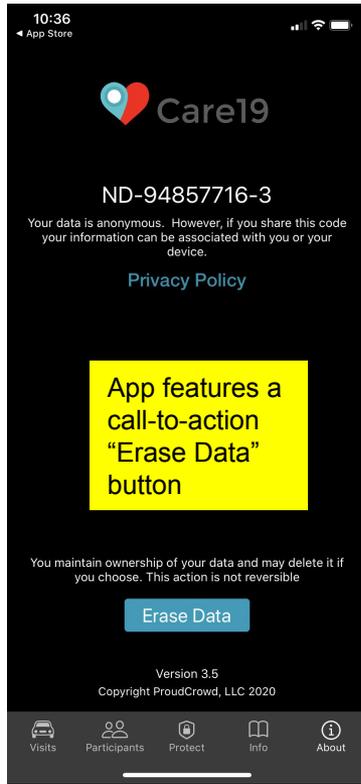
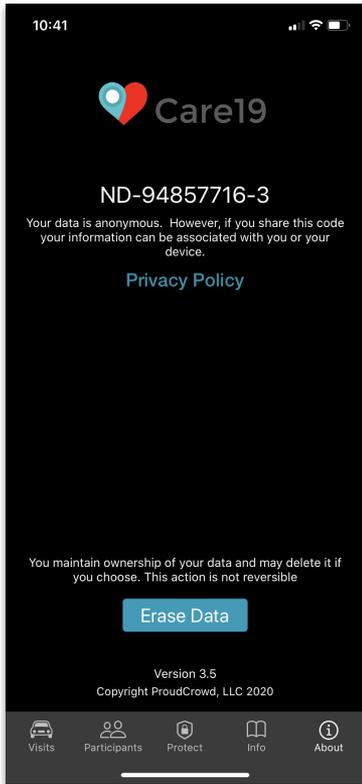
The app shows when it was last updated, what data is shared and whether contact registration is off or on.



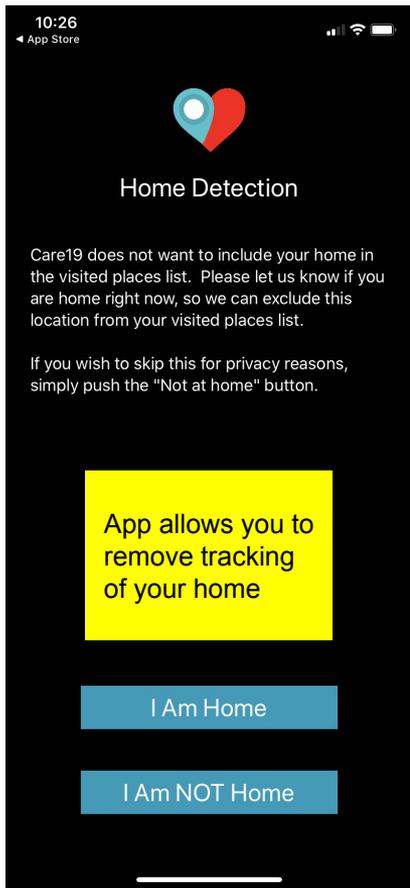
If the user turns off contact registration, the app presents this warning that it can no longer detect when you may be in proximity with an infected person.



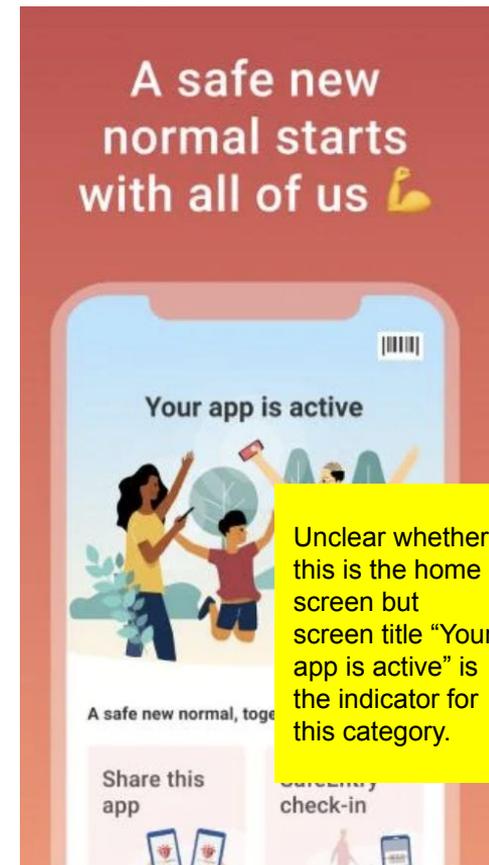
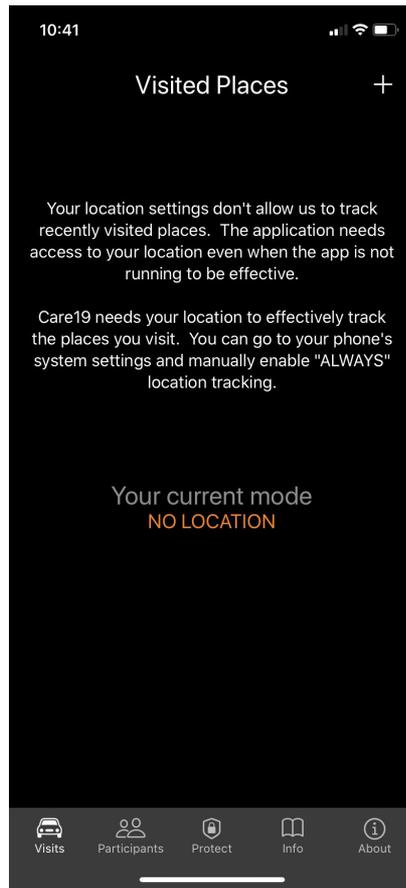
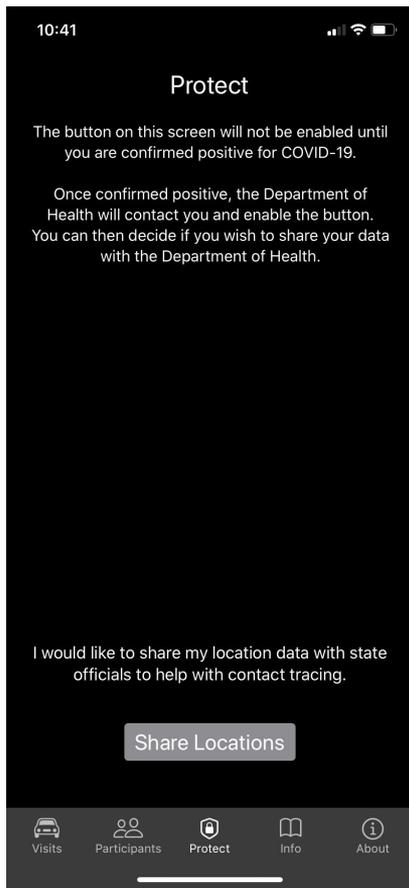
Netherlands
PrivateTracer
Source: [Public prototype](#)



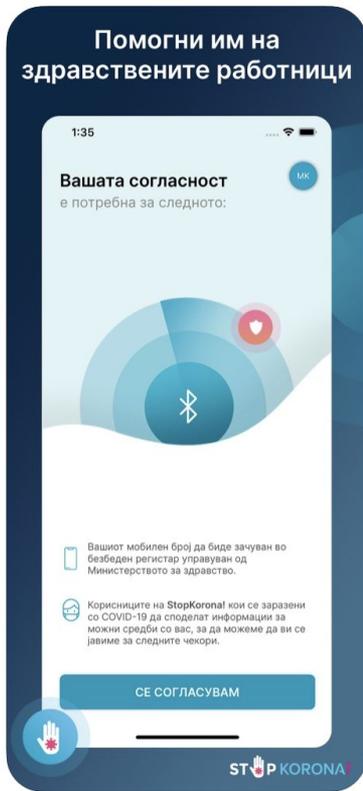
US: North Dakota
Care19
Source: iOS app v.3.5



US: North Dakota
Care19
Source: iOS app v.3.5



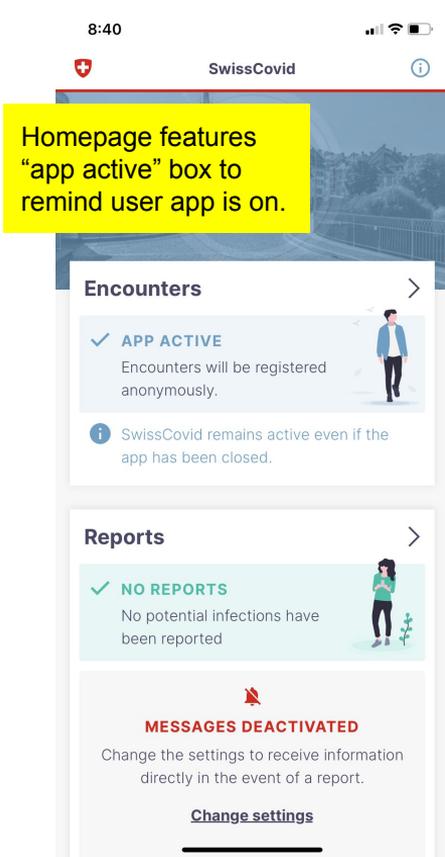
Singapore
TraceTogether
Source: [Play Store](#)



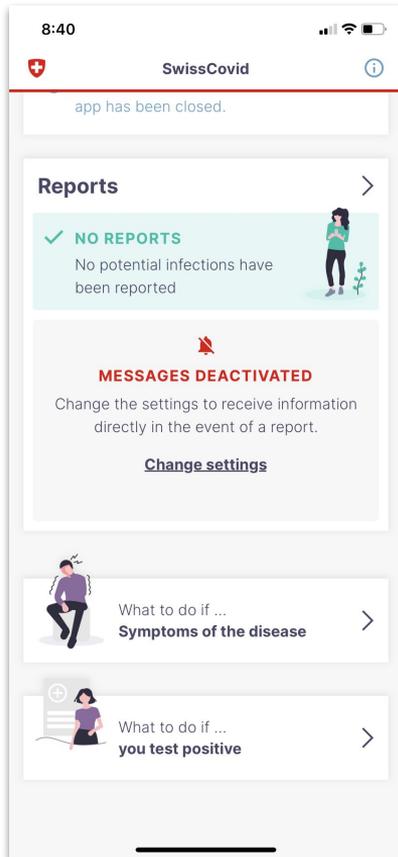
Unable to translate application but this screen shows evidence of a toggle off/on for bluetooth functionality

North Macedonia
Stop Korona

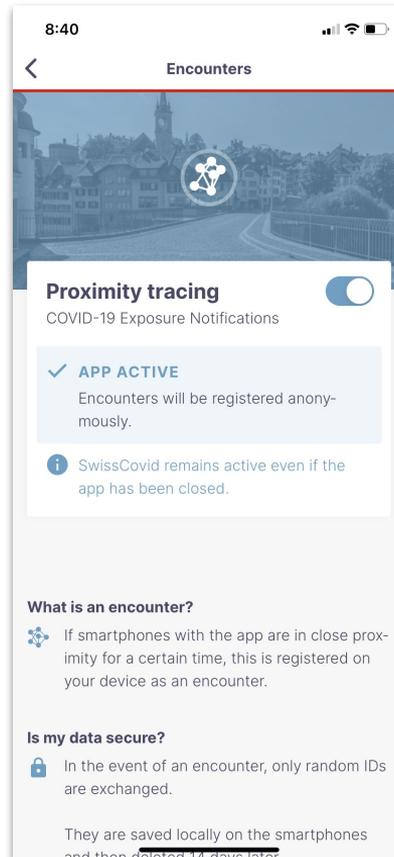
<https://apps.apple.com/mk/app/stopkorona/id1506641869>



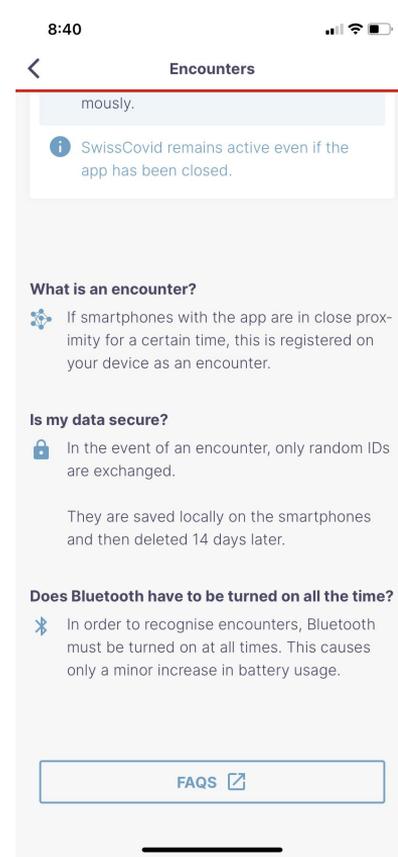
Switzerland
SwissCovid
Source: iOS app v.1.0.5.



Scrolling down on homepage, user can change settings for messages, follow up on public health steps.



Homepage features "app active" box to remind user app is on.



The app highlights data sharing and security questions throughout.

3.3: Privacy governance process

Key questions

- How was the app created (through collaboration with community members or experts)? How is the app governed (documentation, advisory boards, outside council, etc.)? [This was noted in the slide notes, but was not in the comparison slides due to the variation in phrasing..]
- Does the app have a privacy policy specific to the app?
- Does the app have evidence of open source documentation?
- Does the app have evidence of privacy impact assessments?

Sub-themes and findings:

- **Privacy policy specific to app.** Does the app have a privacy policy specific to the app (meaning, not just a broad privacy policy for the affiliated organization)?
 - (23 of 31) Yes (Alberta Canada, Australia, Austria, Canada, Cyprus, Czech Republic, Germany, Iceland, India, Ireland Israel, Italy, Mexico, Netherlands, North Macedonia, Norway, Poland, Qatar, Singapore, Switzerland, UAE, UK, U.S - Utah)
 - (8 of 31) No or unable to find evidence of this: (Bahrain, Bulgaria, France, Ghana, Iran, Malaysia, U.S. - North Dakota, Turkey)
- **Open source.** Evidence of open source documentation (e.g. Github)
 - (17 of 31) Yes: Australia, Austria, Bulgaria, Canada, Cyprus, Czech Republic, France, Germany, Iceland, Ireland, Israel, Italy, Netherlands, Poland, Singapore, Switzerland, UK
 - (14 of 31) No or unable to find evidence of this: Alberta Canada, Bahrain, Ghana, India, Iran, Malaysia, Mexico, U.S. North Dakota, North Macedonia, Norway, Qatar, Turkey, UAE, U.S. Utah
- ***Privacy or Data Protection Impact Assessments.** Evidence of privacy or Data Protection Impact Assessments.
 - (7 of 31) Yes: Austria, Australia, Canada, Germany, Ireland, Poland, UK
 - (24 of 31) No or unable to find evidence of this: Alberta Canada, Bahrain, Bulgaria, Cyprus, Czech Republic, France, Ghana, Iceland, India, Iran, Israel, Italy, Malaysia, Mexico, Netherlands, U.S. - North Dakota, North Macedonia, Norway, Qatar, Singapore, Switzerland, Turkey, UAE, U.S. - Utah

Definitions:

A Privacy Impact Assessment, or PIA, is an analysis of how personally identifiable information is collected, used, shared, and maintained. (Source: [US FTC](#))

A Data Protection Impact Assessment (DPIA) is a process to help you identify and minimise the data protection risks of a project. (Source: [ICO](#))

Countries referenced

Note: Text gathered highlight whether there was **some** evidence of the theme for analysis and comparison; we are not making a judgment or opinion on whether the design choices are good or bad.

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

	1.	Alberta, Canada		17.	Italy
	2.	Australia		18.	Malaysia
	3.	Austria		19.	Mexico
	4.	Bahrain		20.	Netherlands
	5.	Bulgaria		21.	U.S. North Dakota
	6.	Canada		22.	North Macedonia
	7.	Cyprus		23.	Norway
	8.	Czech Republic		24.	Poland
	9.	France		25.	Qatar
	10.	Germany		26.	Singapore
	11.	Ghana		27.	Switzerland
	12.	Iceland		28.	Turkey
	13.	India		29.	UAE
	14.	Iran		30.	UK
	15.	Ireland		31.	U.S. Utah
	16.	Israel			

-  Has privacy policy or privacy statement specific to the app
-  Has some reference to open source documentation
-  Has evidence or reference to privacy or data protection impact assessment
-  Could not find evidence but does not mean this does not exist; please let us know if you have information to help update.

Countries not referenced

This is a work in progress. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

- 1. China: Unable to find public information or evidence on any of these categories.

<p>Alberta, Canada</p>	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this. * PP specific to app: https://www.alberta.ca/ab-trace-together-privacy.aspx (7/2/20) * OS: Unable to find evidence of this. * Date collected: July 17, 2020
<p>Australia</p>	<ul style="list-style-type: none"> * Advisory board: No app specific advisory board, but evidence of advisory committees - https://www.health.gov.au/committees-and-groups * PP specific to app: https://covidsafe.gov.au/privacy-policy.html * OS: https://github.com/AU-COVIDSafe * Other: COVIDSafe legislation; PIA: https://www.health.gov.au/resources/publications/covidsafe-application-privacy-impact-assessment * Date collected: July 17, 2020
<p>Austria</p>	<ul style="list-style-type: none"> * Advisory board: No app specific advisory board, but evidence the code was submitted to the privacy organisations noyb.eu, epicenter.works and the security experts at sba-research.org for a first review - https://noyb.eu/en/report-red-cross-corona-app-reviewed-noyb * PP specific to app: https://www.rotekreuz.at/datenschutz/ * OS: https://github.com/austrianredcross/stopp-corona-ios * Other: https://www.rotekreuz.at/fileadmin/user_upload/Bericht_Datenschutzfolgeabschaetzung_StoppCorona_App.pdf; https://www.researchgate.net/publication/340916928_Data_Protection_Impact_Assessment_for_the_Corona_App_Version_15 (privacy impact assessment) * Date collected: July 17, 2020
<p>Bahrain</p>	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this but evidence of collaboration: “the Information & eGovernment Authority (iGA), in cooperation with the National Taskforce for Combatting the Coronavirus (COVID-19) , worked endlessly to introduce the BeAware Bahrain app” (Source) * PP specific to app: Unable to find evidence of this; https://bahrain.bh/wps/portal/lut/p/a1/pZDLDolwEEX_iBmoErYFloLiCwnYjQFTCwrUVCJ-vuDCnY_E2d3knOTeAQYpsCa7ISJrS9lk1ZCZuZ8u0dQNvwi8CXGRLkLiruyYzKJRD-x6AI3Q0f2REWAYIILL3sy3EwfRlv_53q_-m6P4zY94AwmwJ_ZpxUfAewHvewTARCXz_geJDaxQdK3E0J42ObEEMMWXPXHGIFfLaQtp1nSakFBXXDrKGSx3H6d0_ic8JfQAzyR0b/dl5/d5/L2dBISEvZ0FBIS9nQSEh/ * OS: Unable to find evidence of this. * Date collected: July 17, 2020
<p>Bulgaria</p>	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this * PP specific to app: Unable to find evidence of this * OS: https://github.com/scalefocus/virusafe-android (7/2/20) * Other: Compliant with the European Commission recommendation on COVID-19 apps for contact tracing (Source: website) * Date collected: July 17, 2020

Canada	<ul style="list-style-type: none"> * Advisory board: App Advisory Council: https://www.ic.gc.ca/eic/site/icgc.nsf/eng/h_07687.html * PP specific to app: https://www.canada.ca/en/public-health/services/diseases/coronavirus-disease-covid-19/covid-alert/privacy-policy.html * OS: https://github.com/cds-snc/covid-alert-app * Other: Exposure Notification Application Privacy Assessment: https://www.canada.ca/en/public-health/services/diseases/coronavirus-disease-covid-19/covid-alert/privacy-policy/assessment.html * Date collected: August 01, 2020
Cyprus	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; Audit and code: https://erouska.cz/audit-kod; Evidence of collaboration: Team on website is listed here. Listed on website footer: RISE is the Research Centre of Excellence on Information and Communication Technologies in Cyprus, focusing on Interactive media, Smart systems and Emerging technologies, aiming to empower knowledge and technology transfer in the region. It is a joint venture between the three public universities of Cyprus - University of Cyprus, Cyprus University of Technology, and, Open University of Cyprus- , the Municipality of Nicosia, and two renowned international partners, the Max Planck Institute for Informatics, Germany, and, the University College London, United Kingdom.” * PP specific to app: https://covid-19.rise.org.cy/RISE_CovTracer_Privacy_Policy_EN.pdf * OS: Based on Github repo from MIT SafePaths: https://github.com/Path-Check/covid-safe-paths * Other: https://covid-19.rise.org.cy/en/manual/ * Date collected: July 17, 2020
Czech Republic	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; team outlined here: https://erouska.cz/tym; evidence of collaboration: “The application was created by volunteers working on the Covid19CZ platform under the auspices of the Ministry of Health of the Czech Republic. Data security is sponsored by a number of independent experts, including academics” Source: https://erouska.cz/audit-kod * PP specific to app: https://erouska.cz/gdpr * OS: https://github.com/covid19cz/erouska-android (7/2/20) * Other: Commitment to data trust: https://www.covid19cz.cz/covid19-cz/zavazek-datove-duvery * Date collected: July 17, 2020
France	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; Expert’s opinion and outreach: https://www.economie.gouv.fr/stopcovid; Inria, ANSSI, Capgemini, Dassault Systèmes, Inserm, Lunabee Studio, Orange, Santé Publique France and Withings create the StopCovid project team in order to structure and strengthen their contribution to the government project to set up a mobile contact tracing application (StopCovid). In France, since the beginning of April, the Ministry of Solidarity and Health, the State Secretariat responsible for Digital, in connection with the Ministry of Higher Education, Research and Innovation are mobilized. Since April 8, Inria has been the operational pilot of the project and has been working closely with its European counterparts to develop a protocol that respects civil liberties. Other public and private players are also involved, including ANSSI, Santé Publique France, Inserm, Capgemini, Orange, Dassault Systèmes, Lunabee Studio and Withings. An ecosystem of contributors is also mobilized. Source: https://www.orange.com/en/content/download/54161/1485137/version/10/file/CP%20STOPCOVID%2026avril%20EN.pdf; https://www.inria.fr/sites/default/files/2020-04/Communiqu%C3%A9%20de%20presse%20STOPCOVID_1.pdf * PP specific to app: Unable to find evidence of this; for broader website: https://www.economie.gouv.fr/politique-confidentialite * OS: https://gitlab.inria.fr/stopcovid19; https://www.inria.fr/fr/stopcovid-code-source * Other: Parliamentary work and Partners listed here: https://www.economie.gouv.fr/stopcovid * Date collected: July 17, 2020

Germany	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; Lists “our partners” https://www.coronawarn.app/en/#privacy * PP specific to app: https://www.coronawarn.app/en/privacy/ * OS: https://github.com/corona-warn-app (6/28/20) * Other: Data Protection Impact Assessment: https://www.coronawarn.app/assets/documents/cwa-datenschutz-folgenabschaetzung.pdf * Date collected: July 17, 2020
Ghana	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; on website says “powered by Ministry of Communications in partnership with iQuent Technologies and Ascend Digital Solutions” * PP specific to app: Unable to find evidence of this; * OS: Unable to find evidence of this; * Other: * Date collected: July 17, 2020
Iceland	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; The office of the Director of Public Health and the Civil Protection Department is behind covid.is.Source: https://www.covid.is/app/en (6/28/20) * PP specific to app: https://www.covid.is/app/privacystatement * OS: https://github.com/aranja/rakning-c19-app * Other: * Date collected: July 17, 2020
India	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; * PP specific to app: https://static.mygov.in/rest/s3fs-public/mygov_159051645651307401.pdf * OS: Unable to find evidence of this; * Other: Bug bounty programme: https://static.mygov.in/rest/s3fs-public/mygov_159057669351307401.pdf; data access knowledge protocol https://static.mygov.in/rest/s3fs-public/mygov_159051652451307401.pdf; technical faqs https://static.mygov.in/rest/s3fs-public/mygov_159056968451307401.pdf * Date collected: July 17, 2020

Iran	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; A team of professors, alumni and students of Sharif, Shahid Beheshti and Amirkabir Universities of Technology and holders of the World Olympiad in Mathematics and Computer Olympiads have created a mask in collaboration with some of the best specialists in medical sciences and virology. The production of the mask was voluntary and without commercial incentives. The World Health Organization (WHO) guidelines and the experience of other countries have been used to control the prevalence of corona and reduce the number of victims in mask making. Source: https://mask.ir/about_us.html (6/28/20) * PP specific to app: Unable to find evidence of this * OS: Unable to find evidence of this * Other: Site is in another language, unable to fully translate * Date collected: July 17, 2020
Ireland	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of advisory board specific to the app; able to find HSE board members: https://www.hse.ie/eng/about/who/board-members/ * PP specific to app: https://covidtracker.gov.ie/privacy-and-data/ * OS: https://github.com/HSEIreland/covid-tracker-app * Other: Data Protection Impact Assessment. A DPIA is an important document that clearly and transparently defines what data the app uses and how it protects that data in full compliance with GDPR. The DPIA for the Covid Tracker app has been finalised on the basis of feedback from the Attorney General's Office and from the Office of the Data Protection Commissioner. Download the DPIA; The Data Protection Information Notice (DPIN) or privacy policy can be found here: https://github.com/HSEIreland/covidtracker-documentation/blob/master/documentation/privacy/DPINV1.1.mdown (6/28/20) * Date collected: July 17, 2020
Israel	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; HaMagen was developed in a joint effort by developers from the Ministry of Health, commercial companies, and volunteers from various organizations and the developer community in Israel. What security checks did this application pass? The application was tested by several cyber and information security agencies, including staff from Israel National Cyber Directorate, specialists from the commercial sector, and leading information security and cyber experts from the civil cyber and information security community in Israel. Security checks included architectural checks, code reviews, and PT (breach checks). Adjustments were made according to the recommendations received, and we are currently convinced that the application is sufficiently secure for use, adequately protected from attacks and malfunction, and capable of providing user services in accordance with its purposes. Source: https://govextra.gov.il/ministry-of-health/hamagen-app/download-en/ (6/28/20) * PP specific to app: https://govextra.gov.il/ministry-of-health/hamagen-app/magen-privacy-en/ * OS: https://github.com/MohGovIL; * Other: * Date collected: July 17, 2020

Italy	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; * PP specific to app: https://www.immuni.italia.it/pn.html * OS: https://github.com/immuni-app/immuni-documentation; Italy has released its official COVID-19 contact-tracing app, which is built on the framework developed by Apple and Google to track infections. (Source: Engadget) * Other: List of what data “Immuni does not gather” https://www.immuni.italia.it/ * Date collected: July 17, 2020
Malaysia	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; MyTrace is developed through a strategic cooperation between Government agencies of Malaysia: Ministry of Science, Technology and Innovation (MOSTI), National Security Council (NSC), Ministry of Health (MOH), Malaysian Administrative Modernisation and Management Planning Unit (MAMPU), Malaysian Institute of Microelectronic Systems(MIMOS) and Malaysian Global Innovation and Creativity Centre (MaGIC); with the International Islamic University Malaysia (IIUM) and Google. Source: https://www.mosti.gov.my/web/en/mytrace/#1588521061765-2930e986-9778 (7/2/20) * PP specific to app: Unable to find evidence of this; * OS: Unable to find evidence of this; * Other: Detailed usage manual and video: https://www.mosti.gov.my/web/en/mytrace/#1588521061765-2930e986-9778 * Date collected: July 18, 2020
Mexico	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; * PP specific to app: http://covidradar.mx/aviso-de-privacidad/ * OS: Unable to find evidence of this; * Other: * Date collected: July 18, 2020
Netherlands	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; List of collaborators: Source: https://www.privatetracer.org/nieuws: PrivateTracer Foundation: At the moment, all parties participate on a non-formal, idealistic, voluntary basis and that is the strength of this open source initiative. The PrivateTracer foundation and the partners in the partnership are open to further elaboration of the governance and the partnership, based on the wishes of VWS; PrivateTracer is a public-private association of parties based on free, ideally funded measures and informally responsible for non-profit Stichting PrivateTracer; The public private affiliate has been in the Hague, UMCG, LUMC, Microsoft, NEN, YES! Delft, Milvum, Odyssey.org, Loyens & Loeff, Flitsmeister, Edelman, Software Improvement Group, Zerocopter, DP-3T, Circularize, Poort8, Cybermundus, ConnectoRR, Dedico en ERAC. * PP specific to app: Privacy by design tab on website. * OS: https://gitlab.com/PrivateTracer * Other: * Date collected: July 18, 2020

U.S. North Dakota	<p>* Advisory board: Unable to find evidence of this; Gov. Doug Burgum and the North Dakota Department of Health (NDDoH) in partnership with ProudCrowd, creators of the popular Bison Tracker app, launched a free mobile app, Care19, to help slow the spread of COVID-19 in North Dakota. (Source: https://www.health.nd.gov/news/north-dakota-launches-care19-app-combat-covid-19 6/28/20)</p> <p>* PP specific to app: Unable to find evidence of this; Some references here: https://ndresponse.gov/covid-19-resources/covid-19-faqs?field_faq_category_target_id=47</p> <p>* OS: Unable to find evidence of this;</p> <p>* Other: The Care19 Alert app uses the exposure notification technology jointly developed by Apple and Google for public health agencies to supplement their COVID-19 contact tracing efforts; https://ndresponse.gov/covid-19-resources/care19</p> <p>* Date collected: July 18, 2020</p>
North Macedonia	<p>* Advisory board: Unable to find evidence of this; StopKorona! is a mobile app developed by Nextsense as donation for the needs of the Ministry of Health. The app was developed in cooperation with and support by the Ministry of Information Society and Administration. Source: FAQs https://stop.koronavirus.gov.mk/en</p> <p>* PP specific to app: https://stop.koronavirus.gov.mk/privacy-policy/en</p> <p>* OS: Unable to find evidence of this; Free Access for Other Countries: As our contribution to the fight against the global threat from COVID-19, we are open to supporting other countries willing to adopt StopKorona! for FREE, subject to mutual agreement; Source: https://stop.koronavirus.gov.mk/en (6/28/20)</p> <p>* Other:</p> <p>* Date collected: July 18, 2020</p>
Norway	<p>* Advisory board: Unable to find evidence of this; The Norwegian Institute of Public Health and Simula have worked together to develop the Smittestopp app. Both information security for the data and privacy for users have been a high priority during development. Source: https://helsenorge.no/coronavirus/smittestopp (7/2/20)</p> <p>* PP specific to app: https://helsenorge.no/coronavirus/smittestopp#Privacy; https://www.fhi.no/en/id/infectious-diseases/coronavirus/use-of-smittestopp-privacy-policy/</p> <p>* OS: Unable to find evidence of this;</p> <p>* Other: Anonymised data for research: https://helsenorge.no/coronavirus/smittestopp#Anonymised-data-for-research</p> <p>* Date collected: July 18, 2020</p>
Poland	<p>* Advisory board: Unable to find evidence of this; We have started working on an application that will allow you to control and stop the spread of coronavirus. It is prepared by a group of Polish programmers. We want to know the views of others before implementing it. That is why we are making the source code available today.</p> <p>* PP specific to app: Available in documents here: https://www.gov.pl/web/protegosafe/dokumenty</p> <p>* OS: https://github.com/ProteGO-Safe</p> <p>* Other: Data protection impact assessment: https://www.gov.pl/attachment/748bd66d-2345-4644-927b-299227ae74a3</p> <p>* Date collected: July 18, 2020</p>

Qatar	<p>* Advisory board: Unable to find evidence of this; The application is owned and managed by State of Qatar and the relevant government entities, and it is related to the laws and regulations governing the e-government policies in force in Qatar, particularly Cabinet Resolution No. 18 of 2010 regarding the implementation of e-government policies and Law No. 13 regarding privacy and protection of personal data. Source: https://portal.www.gov.qa/wps/portal/media-center/news/news-details/todeterminecoronavirustransmissionchainsehterazappisnowavailablefordownload (6/28/20)</p> <p>* PP specific to app: Unable to find evidence of this; There is mention of the app privacy policy here: https://www.qatar-tribune.com/Latest-News/ArtMID/423/ArticleID/29605/ehteraz-app-doesn-t-violate-user-privacy-moph</p> <p>* OS: Unable to find evidence of this;</p> <p>* Other:</p> <p>* Date collected: July 18, 2020</p>
Singapore	<p>* Advisory board: Unable to find evidence of this; TraceTogether is developed by the Ministry of Health and Government Technology Agency (GovTech), in support of SGUnited. Source: https://support.tracetogether.gov.sg/hc/en-sg/articles/360043504753-Who-built-TraceTogether- (7/2/20)</p> <p>* PP specific to app: https://www.tracetogether.gov.sg/common/privacystatement;</p> <p>* OS: https://github.com/OpenTrace-community</p> <p>* Other:</p> <p>* Date collected: July 18, 2020</p>
Switzerland	<p>* Advisory board: Unable to find evidence of this;</p> <p>* PP specific to app: https://www.bag.admin.ch/bag/en/home/krankheiten/ausbrueche-epidemien-pandemien/aktuelle-ausbrueche-epidemien/novel-cov/swisscovid-app-und-contact-tracing/datenschutzerklaerung-nutzungsbedingungen.html</p> <p>* OS: https://github.com/DP-3T/dp3t-app-android-ch</p> <p>* Other: https://foph-coronavirus.ch/swisscovid-app/</p> <p>* Date collected: July 18, 2020</p>
Turkey	<p>* Advisory board: Unable to find evidence of this; Hayat Eve Sığar Mobile Application, T.C. It is a mobile application developed by the Ministry of Health to inform our citizens about the New Coronary Virus (Covid-19) and to minimize the risks associated with the epidemic disease that may occur and prevent its spread; Source: https://www.iletisim.gov.tr/english/haberler/detay/director-of-communications-altun-shares-a-post-on-pandemic-isolation-tracking-project (6/28/20)</p> <p>* PP specific to app: Unable to find evidence of this;</p> <p>* OS: Unable to find evidence of this;</p> <p>* Other: https://hayatevesigar.saglik.gov.tr/</p> <p>* Date collected: July 18, 2020</p>

UAE	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; This privacy policy governs your use of the TraceCovid mobile app (“App”) created by the Department of Health (DOH), UAE. Source: https://tracecovid.ae/privacy.html * PP specific to app: https://tracecovid.ae/privacy.html * OS: Unable to find evidence of this; * Other: * Date collected: July 18, 2020
UK	<ul style="list-style-type: none"> * Advisory board: Yes: Ethics Advisory Board: “The use of technology will also give rise to questions relating to ethics, privacy and security, and it is important that these are properly explored and addressed. That is why we have established an independent Ethics Advisory Board. * The Chair and existing members, who are not remunerated, are working on recruiting new members to ensure appropriate diversity and expertise. We have published the current membership of the Board together with the terms of reference; We have been consulting with: the Information Commissioner, Members of the National Data Guardian’s Panel, the Centre for Data Ethics and Innovation, representatives from Understanding Patient Data, volunteers who provided a patient and public perspective; We have also established an ethics advisory board for the app, chaired by Professor Sir Jonathan Montgomery from University College London who previously headed the Nuffield Council on Bioethics. Their advice and expertise will be crucial to everything we do. https://www.ncsc.gov.uk/information/nhs-covid-19-app-explainer * PP specific to app: https://covid19.nhs.uk/our-policies.html * OS: https://github.com/nhsx/COVID-19-app-Documentation-BETA * Other: Sources: https://www.ncsc.gov.uk/information/nhs-covid-19-app-explainer, https://covid19.nhs.uk/isle-of-wight.html (this site has been archived since the app was taken off the app market on June 18 2020), https://faq.covid19.nhs.uk/category/?id=CAT-01006 (May 2020, 7/12/20); privacy impact assessment https://ico.org.uk/media/for-organisations/documents/2617676/ico-contact-tracing-recommendations.pdf * Date collected: July 18, 2020
U.S. Utah	<ul style="list-style-type: none"> * Advisory board: Unable to find evidence of this; The Governor’s Office and the Utah Department of Health worked closely with a developer, Twenty, to develop the Healthy Together app. Twenty repurposed its iOS and Android mobile application technology with existing user registration, location data sharing, basic map visualization, user-to-user sharing, and alerts to deliver a solution in two parts through a mobile application and an official portal to be used by public health. Twenty consulted with other technology experts and the state of Utah’s team during the development process. The app was coded and created by the core Twenty team and approved by State of Utah leaders and health officials. Source: https://coronavirus.utah.gov/healthy-together-app/ (6/28/20) * PP specific to app: https://coronavirus-download.utah.gov/Health/HealthyTogether_PrivacyPolicy.pdf * OS: Unable to find evidence of this; * Other: * Date collected: July 18, 2020

Section 4:

App data comparisons

Section 4.1 - App permissions

We analyzed 28 apps available and live for download on the Google Play Store as of July 17, 2020; (17 of 28) both mentioned use of approximate and precise location information, (17 of 28) access bluetooth settings, (28 of 28) request full network access, (26 of 28) view network connections, (10 of 28) can read the contents of your USB storage, (5 of 28) ask permission to take pictures and video.

Section 4.2 - App data deletion

Of 31 apps that we could access, (21 of 31) apps we found referenced to user app deletion, (2 of 31) apps we found secondary reference but no official documentation and (8 of 31) apps we did not find reference to user app and data deletion.

Section 4.3 - App downloads

(Google Play Store only)
We analyzed 27 apps available and live for download on the Google Play Store as of July 17, 2020; (2 of 27) listed 1,000+ installs, (3 of 27) listed 10,000+ installs, (4 of 27) listed 50,000+ installs, (7 of 27) listed 100,000+ installs, (2 of 27) listed 500,000+ installs, (6 of 27) listed 1,000,000+ installs, (2 of 27) listed 5,000,000+ installs, (1 of 27) listed 100,000,000+ installs.

4.1 App permissions



Key questions

- What are the permissions required from the user in order to use the app (based on comparison of the permissions in the Google Play Store)?

Sub-themes and findings:

- In this section, we looked at 28 apps that were available and live for download on the Google Play Store (as of July 17, 2020).
 - 1 app (UK) has been no longer available as of June 26, 2020.
 - 2 apps (Iran, Netherlands) we were unable to find on Google Play Store
 - Therefore, we will be analyzing 27 (instead of 31) apps in this section
- Location
 - (0 of 28) Approximate only
 - (5 of 28) Precise only
 - (17 of 28) Both mentioned Approximate and Precise
 - (6 of 28) Location was not referenced in the Google Play Store permissions
- Access bluetooth settings
 - (17 of 28) Yes
 - (11 of 28) Not referenced in Google Play Store
- Full network access
 - (28 of 28) Yes
 - (0 of 27) Not referenced in Google Play Store
- View network connections
 - (26 of 28) Yes
 - (2 of 28) Not referenced in Google Play Store
- Read the contents of your USB storage
 - (10 of 28) Yes
 - (18 of 28) Not referenced in Google Play Store
- Take pictures and video
 - (5 of 28) Yes
 - (23 of 28) Not referenced in Google Play Store

Countries referenced

Note: Datagathered highlight whether there was **some** evidence of the theme for analysis and comparison; we are not making a judgment or opinion on whether the design choices are good or bad.

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

1. Alberta, Canada
2. Australia
3. Austria
4. Bahrain
5. Bulgaria
6. Canada
7. Cyprus
8. Czech Republic
9. France
10. Germany
11. Ghana
12. Iceland
13. India
14. Ireland
15. Israel
16. Italy
17. Malaysia
18. Mexico
19. U.S. North Dakota
20. North Macedonia
21. Norway
22. Poland
23. Qatar
24. Singapore
25. Switzerland
26. Turkey
27. UAE
28. U.S. Utah

Countries not referenced

This is a work in progress. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

1. China: Unable to find public information or evidence on any of these categories.
2. Iran: we were unable to find on Google Play Store
3. Netherlands: we were unable to find on Google Play Store
4. UK: has been no longer available as of June 26, 2020.

Countries referenced

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know. Blank boxes mean we did not find evidence of this in this analysis.

Note: **App information here were derived from Google Play App permissions ONLY.** It is possible for every country, there are other permissions that are not included in this analysis. We did not include Apple permissions as this is not available on the App Store website. Location access with Android/Google may not reflect what is required on iOS as Android/Google requires that apps requesting access to Bluetooth also obtain location permission, as Bluetooth can be used to derive location information when combined with beacons in fixed locations. ([See: Source](#))

Country / State and Link to Google Play Store to view permissions (7/16/20)	Location (Approximate or precise)	Access bluetooth settings OR Pair with Bluetooth devices	Full Network Access	View Network Connections	Read the contents of your USB storage (e.g. photos, media, files)	Highlighting unique permissions on Google Play
Alberta Canada	Precise	Both	X			
Australia	Both	Both	X			
Austria		Pair with	X	X		
Bahrain	Both	Both	X	X	X	Add or modify calendar events and send email to guests without owners' knowledge
Bulgaria	Precise		X	X		
Canada		Pair with	X	X		
Cyprus	Both	Both	X	X	X	
Czech Republic	Both	Both	X	X		
France	Both	Both	X	X	X	take pictures and videos
Germany		Pair with	X	X	X	take pictures and videos

Countries referenced

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know. Blank boxes mean we did not find evidence of this in this analysis.

Note: **App information here were derived from Google Play App permissions ONLY.** It is possible for every country, there are other permissions that are not included in this analysis. We did not include Apple permissions as this is not available on the App Store website. Location access with Android/Google may not reflect what is required on iOS as Android/Google requires that apps requesting access to Bluetooth also obtain location permission, as Bluetooth can be used to derive location information when combined with beacons in fixed locations. ([See: Source](#))

Country / State and Link to Google Play Store to view permissions (7/16/20)	Location (Approximate or precise?)	Access bluetooth settings OR Pair with Bluetooth devices	Full Network Access	View Network Connections	Read the contents of your USB storage (e.g. photos, media, files)	Highlighting unique permissions on Google Play Store
Ghana	Both		X	X		
Iceland	Both		X	X	X	read phone status and identity
India	Both	Both	X	X		take pictures and videos
Iran	Unable to find mask.ir on Google Play Store. https://mask.ir/					
Ireland		Pair with	X	X		
Israel	Both	Both	X	X		Control vibration
Italy		Pair with	X	X		
Malaysia	Both	Both	X	X	X	
Mexico	Both	Both	X	X		take pictures and videos
Netherlands	Unable to find mask.ir on Google Play Store. https://gitlab.com/PrivateTracer					

Countries referenced

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know. Blank boxes mean we did not find evidence of this in this analysis.

Note: **App information here were derived from Google Play App permissions ONLY.** It is possible for every country, there are other permissions that are not included in this analysis. We did not include Apple permissions as this is not available on the App Store website. Location access with Android/Google may not reflect what is required on iOS as Android/Google requires that apps requesting access to Bluetooth also obtain location permission, as Bluetooth can be used to derive location information when combined with beacons in fixed locations. ([See: Source](#))

Country / State and Link to Google Play Store to view permissions (7/16/20)	Location (Approximate or precise?)	Access bluetooth settings OR Pair with Bluetooth devices	Full Network Access	View Network Connections	Read the contents of your USB storage (e.g. photos, media, files)	Highlighting various unique permissions on Google Play Store
U.S. North Dakota	Both		X	X		
North Macedonia	Both	Both	X	X		Prevent device from sleeping
Norway	Precise	Both	X	X		
Poland		Pair with	X	X		Prevent device from sleeping
Qatar	Both	Both	X	X	X	read phone status and identity disable your screen lock
Singapore	Both	Both	X	X	X	take pictures and videos
Switzerland		Pair with	X	X		prevent device from sleeping
Turkey	Both	Both	X	X	X	prevent device from sleeping
UAE	Both	Both	X	X	X	prevent device from sleeping
UK (No longer available as of June 26, 2020)			X	X		prevent device from sleeping
U.S - Utah	Precise	Both	X	X		Control vibration prevent device from sleeping

<p>Alberta, Canada</p>	<ul style="list-style-type: none"> * Bluetooth enabled * Location * Push notifications * Source: https://apps.apple.com/ca/app/abtracetogogether/id1508213665 (6/28/20) * Precise location (GPS and network-based) * View wifi connections * access Bluetooth settings * pair with Bluetooth devices * run at startup * full network access * Source: https://play.google.com/store/apps/details?id=ca.albertahealthservices.contacttracing&hl=en_CA (7/17/20)
<p>Australia</p>	<ul style="list-style-type: none"> * use the contacts captured by the app to support their usual contact tracing * call people to let them or their parent/guardian know they may have been exposed * Source: App screenshots and online documentation (7/2/20) precise location (GPS and network-based) approximate location (network-based) receive data from Internet access Bluetooth settings view network connections pair with Bluetooth devices run at startup full network access prevent device from sleeping * Source: https://play.google.com/store/apps/details?id=au.gov.health.covidsafe&hl=en_US

Austria	<p>*Notifications</p> <p>* Logging and notifications: your iphone can securely collect and share random IDs with nearby devices. The app can use these IDs to notify you if you may have been exposed to COVID-19. The date, duration, and signal strength of an exposure will be shared with "StoppCorona"</p> <p>* Source: Screenshots from iOS app download (7/2/20)</p> <p>* Microphone. Because the participating smartphones emit a short, inaudible ultrasound tone during the manual handshake in order to determine the distance to other devices.</p> <p>* Location: Because the automatic handshake works via Bluetooth, which is allowed for Android devices via location sharing. Of course, your location data will not be accessed. Devices in your environment are recognized during the automatic handshake via Bluetooth. For Android devices, you allow this Bluetooth function via location sharing. Of course, your location data will not be queried or processed.</p> <p>* Contacts. to be able to notify people if you are covid positive</p> <p>* Source: Online documentation (7/12/20) https://noyb.eu/sites/default/files/2020-04/report_stopp_corona_app_english_v1.0_0.pdf</p> <p>run at startup view network connections pair with Bluetooth devices full network access prevent device from sleeping https://play.google.com/store/apps/details?id=at.rotekreuz.stopcorona&hl=en_US</p>
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Bahrain	<p>* Location</p> <p>* Alerts: covid developments, push recommendations issued by kingdom's health authorities</p> <p>* Source: Google Play screenshots and online documentation (6/28/20)</p> <p>retrieve running apps read calendar events plus confidential information add or modify calendar events and send email to guests without owners' knowledge approximate location (network-based) precise location (GPS and network-based) access extra location provider commands read the contents of your USB storage modify or delete the contents of your USB storage receive data from Internet view network connections pair with Bluetooth devices access Bluetooth settings full network access run at startup prevent device from sleeping https://play.google.com/store/apps/details?id=bh.bahrain.corona.tracker&hl=en_US</p>
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Bulgaria	<p>Access to the internet Access to your location Run at startup Network access Source: https://github.com/scalefocus/virusafe-android/blob/develop/Permission-Scope.md (6/28/20)</p> <p>precise location (GPS and network-based) receive data from Internet view network connections full network access run at startup prevent device from sleeping https://play.google.com/store/apps/details?id=bg.government.virusafe&hl=en_US</p>
Cyprus	<p>* GPS/location * User location information in the form of Time-stamped data in five minute intervals is collected. The user may switch on and off the app's logging by selecting the Start/Stop Logging option in the app. location may be determined by: GPS, Device Sensor data, IP address Wi-Fi access points, Bluetooth and cell towers. * Source: https://covid-19.rise.org.cy/RISE_CovTracer_Privacy_Policy_EN.pdf (6/28/20)</p> <p>read the contents of your USB storage modify or delete the contents of your USB storage view Wi-Fi connections precise location (GPS and network-based) access extra location provider commands approximate location (network-based) receive data from Internet Google Play license check pair with Bluetooth devices run at startup prevent device from sleeping toggle sync on and off create accounts and set passwords read sync settings access Bluetooth settings view network connections full network access https://play.google.com/store/apps/details?id=edu.rise.ihnilatis&hl=en_US</p>

Canada

view Wi-Fi connections
view network connections
pair with Bluetooth devices
full network access
run at startup
prevent device from sleeping
<https://play.google.com/store/apps/details?id=ca.gc.hcsc.canada.stopcovid>

Czech Republic	<ul style="list-style-type: none"> * bluetooth * The eRouška application does not collect and store data from GPS, but the Android operating system also includes some Bluetooth LE (LE = low energy) services under positioning, which the eRouška needs for its operation. Therefore, the user's consent to the application's access to location data is required. In iOS, this consent is not required. * Source: https://erouska.cz/en/gdpr (6/28/20) <p>approximate location (network-based) precise location (GPS and network-based) receive data from Internet view network connections pair with Bluetooth devices access Bluetooth settings full network access run at startup prevent device from sleeping</p> <p>https://play.google.com/store/apps/details?id=cz.covid19cz.erouska&hl=en_US</p>
France	<ul style="list-style-type: none"> * Camera - to scan the QR code * Location: For phones running Android, it is not possible to activate bluetooth without activating positioning. However, the StopCovid application does not use this functionality at any time and only works with bluetooth. It is therefore impossible for StopCovid to geolocate users. All the data exchanged and stored in the StopCovid application are described in the application's confidentiality section. * Bluetooth * View network connections * Notifications * Source: Screenshots and online documentation from https://www.economie.gouv.fr/stopcovid-faq# (7/2/20) <p>precise location (GPS and network-based) approximate location (network-based) take pictures and videos access Bluetooth settings view network connections pair with Bluetooth devices run at startup full network access prevent device from sleeping</p> <p>https://play.google.com/store/apps/details?id=fr.gouv.android.stopcovid&hl=en_US</p>

Germany	<ul style="list-style-type: none"> * Camera * Bluetooth * View network connections * Prevent device from sleeping * Full network access * Run at startup * Source: Google play permissions (7/4/20) <p>take pictures and videos view network connections pair with Bluetooth devices run at startup full network access prevent device from sleeping</p> <p>https://play.google.com/store/apps/details?id=de.rki.coronawarnapp</p>
Ghana	<ul style="list-style-type: none"> * Location * Bluetooth * This App will need you to turn on and allow the App access to the Bluetooth and GPS location services on your device. This App shall not function properly and accurately if Bluetooth and GPS services are turned off or if the App's access to Bluetooth and GPS services is revoked on the device on which this App is installed. * Source: Downloading the app, screenshots (7/2/20) <p>approximate location (network-based) precise location (GPS and network-based) view Wi-Fi connections view network connections full network access</p> <p>https://play.google.com/store/apps/details?id=com.moc.gh&hl=en</p>

Iceland	<p> approximate location (network-based) access extra location provider commands precise location (GPS and network-based) read phone status and identity read the contents of your USB storage modify or delete the contents of your USB storage read phone status and identity read the contents of your USB storage modify or delete the contents of your USB storage receive data from Internet view network connections prevent device from sleeping create accounts and set passwords run at startup toggle sync on and off draw over other apps read sync settings full network access read Google service configuration https://play.google.com/store/apps/details?id=is.landlaeknir.rakning </p>
India	<p> * bluetooth * GPS * location sharing to always: Aarogya Setu stores location data and requires constant access to the phone's Bluetooth which, experts say, makes it invasive from a security and privacy viewpoint. * Source: Online documentation and app store screenshots (6/28/20) </p> <p> approximate location (network-based) precise location (GPS and network-based) take pictures and videos receive data from Internet view network connections pair with Bluetooth devices access Bluetooth settings full network access run at startup prevent device from sleeping https://play.google.com/store/apps/details?id=nic.goi.aarogyaasetu </p>

Iran	<ul style="list-style-type: none"> * location * Source: Twitter (6/28/20) https://twitter.com/MaskApplication/status/1241286627252633601 <p>https://cafebazaar.ir/app/ir.covidapp.android</p>
Ireland	<ul style="list-style-type: none"> view Wi-Fi connections view network connections pair with Bluetooth devices full network access <p>https://play.google.com/store/apps/details?id=com.covidtracker.hse</p>
Israel	<ul style="list-style-type: none"> * location. Location history of last two weeks only (dates, times, and places) according to the tracking services (and currently – not applicable to dates before you have installed the application). * History of wireless networks (WIFI) that you came across in the last two weeks only. * Cross-references of locations with diagnosed patients (if any) – in the last two weeks only. * Note: Everything is stored in the memory of your phone and is not forwarded. * Source: Screenshots and online documentation (6/28/20) <ul style="list-style-type: none"> retrieve running apps approximate location (network-based) precise location (GPS and network-based) access extra location provider commands view Wi-Fi connections receive data from Internet view network connections pair with Bluetooth devices access Bluetooth settings change network connectivity connect and disconnect from Wi-Fi full network access run at startup control vibration prevent device from sleeping Google Play license check <p>https://play.google.com/store/apps/details?id=com.hamagen</p>

Italy	<ul style="list-style-type: none"> * Enable COVID-19 Exposure Logging and Notifications * Enable Bluetooth * Enable notifications * Source: Screenshots (6/28/20) <p>run at startup view network connections pair with Bluetooth devices full network access prevent device from sleeping</p> <p>https://play.google.com/store/apps/details?id=it.ministerodellasalute.immuni</p>
Malaysia	<ul style="list-style-type: none"> * bluetooth * location * battery optimization * Source: Screenshots gathered (6/28/20) https://www.mosti.gov.my/web/en/mytrace/#1588521061765-2930e986-9778 <p>retrieve running apps approximate location (network-based) precise location (GPS and network-based) read the contents of your USB storage modify or delete the contents of your USB storage receive data from Internet view network connections pair with Bluetooth devices access Bluetooth settings full network access run at startup prevent device from sleeping</p> <p>https://play.google.com/store/apps/details?id=my.gov.onegovappstore.mytrace&hl=en_US</p>

Mexico	<ul style="list-style-type: none"> * Location * Notifications * Bluetooth * Source: Screenshots from app download (7/2/20) <p>approximate location (network-based) precise location (GPS and network-based) retrieve running apps take pictures and videos view Wi-Fi connections receive data from the Internet access Bluetooth settings pair with Bluetooth devices view network connections full network access prevent device from sleeping run at startup</p> <p>https://play.google.com/store/apps/details?id=mx.covidradar.radar&pagelid=none</p>
Netherlands	<p>Unable to find app on Google Play Store</p> <p>The Dutch government has abandoned its initial attempt to commission a Covid-19 contact tracing app after the final seven designs were dismissed as inadequate on privacy grounds: https://www.irishtimes.com/news/world/europe/netherlands-abandons-initial-plan-to-develop-covid-19-tracing-app-1.4236355</p>
U.S. - North Dakota	<p>approximate location (network-based) precise location (GPS and network-based) receive data from Internet full network access prevent device from sleeping view network connections run at startup</p> <p>https://play.google.com/store/apps/details?id=com.proudcrowd.care&hl=en_US</p> <p>Extra notes:</p> <ul style="list-style-type: none"> * GPS. Does it show infected people? NO! The map does not show infected people. In fact, it doesn't show people at all. The map displays a dot on each city where someone is using the Care19 app. The size of the dot is proportional to the number of users in that city. The purpose of the map is to help build community. It enables people to see how their friends and fellow citizens across the state are pitching in to help the fight against COVID-19 * Source: https://ndresponse.gov/node/5748 * The map represents cities where people are using the Care19 app. The size of the dot reflects how many people. The map does NOT display individual people, nor does it display anything about positive cases. * Source: https://ndresponse.gov/node/5751

North Macedonia	<ul style="list-style-type: none"> * Approximate location (network-based) * Precise location (GPS and network-based) * Receive data from internet * View network connections * Pair with Bluetooth devices * Access Bluetooth settings * Full network access * Prevent device from sleeping <p>https://play.google.com/store/apps/details?id=mk.gov.koronavirus.stop</p>
Norway	<ul style="list-style-type: none"> * bluetooth * location: https://helsenorge.no/SiteCollectionDocuments/korona/smittestopp-explainer-engelsk-2020-04-24.pdf * The data about where you have been are recorded from Location Services and Bluetooth by the Smittestopp app: https://helsenorge.no/coronavirus/smittestopp <p>* Precise location (GPS and network)</p> <p>pair with Bluetooth devices</p> <p>run at startup</p> <p>view network connections</p> <p>access Bluetooth settings</p> <p>full network access</p> <p>prevent device from sleeping</p> <p>https://play.google.com/store/apps/details?id=no.simula.smittestopp</p>
Poland	<ul style="list-style-type: none"> * "exposure logging" * notifications * Source: Screenshots, app download <p>receive data from Internet</p> <p>view network connections</p> <p>pair with Bluetooth devices</p> <p>full network access</p> <p>run at startup</p> <p>prevent device from sleeping</p> <p>https://play.google.com/store/apps/details?id=pl.gov.mc.protegosafe&hl=en_US</p>

Qatar

- * bluetooth
- * notifications
- * location
- * Source: iOS app screenshots (6/28/20)

approximate location (network-based)
precise location (GPS and network-based)
directly call phone numbers
read phone status and identity
read the contents of your USB storage
modify or delete the contents of your USB storage
read phone status and identity
receive data from Internet
view network connections
pair with Bluetooth devices
access Bluetooth settings
disable your screen lock
full network access
run at startup
draw over other apps
prevent device from sleeping

https://play.google.com/store/apps/details?id=com.moi.covid19&hl=en_US

Singapore	<ul style="list-style-type: none"> * bluetooth * notifications * Source: Screenshots on “How does it work?” documentation (6/28/20): https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.straitstimes.com%2Ftech%2Fsingapore-app-allows-for-faster-contact-tracing&psig=AOvVaw2ICWe-O1PdaliLebOKjwIP&ust=1591709524377000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCJiXs5mq8ukCFQAAAAAdAAAAABAQ (6/28/20) * We only ask for location permission on Android devices, not on iOS devices. This is because Android/Google requires that apps requesting access to Bluetooth also obtain location permission, as Bluetooth can be used to derive location information when combined with beacons in fixed locations. For more information, please see: https://developer.android.com/guide/topics/connectivity/bluetooth In short, we do ask for location permissions because we need Bluetooth permissions. But TraceTogether does not collect or use location data on Android * Source: https://support.trace.together.gov.sg/hc/en-sg/articles/360043224854-Why-does-Trace-Together-need-Location-Permission-on-Android- <p>read the contents of your USB storage modify or delete the contents of your USB storage precise location (GPS and network-based) approximate location (network-based) take pictures and videos read the contents of your USB storage modify or delete the contents of your USB storage receive data from Internet pair with Bluetooth devices run at startup prevent device from sleeping access Bluetooth settings view network connections control vibration full network access https://play.google.com/store/apps/details?id=sg.gov.tech.bluetrace&hl=en_US</p>
Switzerland	<ul style="list-style-type: none"> * View network connections * Pair with bluetooth devices * Full network access * Run at startup * Prevent device from sleeping * Source: https://play.google.com/store/apps/details?id=ch.admin.bag.dp3t&hl=en_US * Exposure logging and notifications * Source: Screenshots (6/28/20)

Turkey	<p>read your contacts take pictures and videos read the contents of your USB storage modify or delete the contents of your USB storage approximate location (network-based) precise location (GPS and network-based) view Wi-Fi connections receive data from Internet full network access access Bluetooth settings read Google service configuration run at startup view network connections pair with Bluetooth devices prevent device from sleeping</p> <p>* Source: https://play.google.com/store/apps/details?id=tr.gov.saglik.hayatevesigar&hl=en_US</p>
UAE	<p>* Notifications * Bluetooth * Location for Android. Android devices require the location permission to be granted in order for the TraceCovid app to access Bluetooth features. * Source: Screenshots on Youtube and App stores (6/28/20)</p> <p>* Approximate location (network-based) * Precise location (GPS and network-based) * Read the contents of your USB storage) * receive data from Internet * view network connections * pair with Bluetooth devices * access Bluetooth settings * full network access * run at startup * prevent device from sleeping</p> <p>https://play.google.com/store/apps/details?id=ae.tracecovid.app&hl=en_US</p>

UK	<ul style="list-style-type: none"> * Notifications * Bluetooth * Source: screenshots * receive data from Internet * full network access * prevent device from sleeping * view network connections <p>https://play.google.com/store/apps/details?id=uk.nhs.nhsx.colocate</p>
U.S. - Utah	<ul style="list-style-type: none"> * Location * Notifications * Access contacts * Bluetooth * Source: Screenshots from app download (6/28/20) <p>precise location (GPS and network-based) view Wi-Fi connections receive data from Internet pair with Bluetooth devices run at startup view network connections access Bluetooth settings prevent device from sleeping control vibration full network access</p> <p>https://play.google.com/store/apps/details?id=co.twenty.stop.spread</p>



4.2: App data deletion

- Does the app delete data?
- If, yes what are the rules? After how many days?

4.3 App data deletion

Key questions

- Does the app delete data?
 - If, yes what has been referenced?
 - How many days, if any were referenced in accordance with data deletion rules?

Sub-themes and findings:

- In this section, we looked at 31 total apps
 - (23 of 31) apps we found reference to user app deletion
 - (8 of 31) apps we did not find a reference to user app and data deletion

Countries referenced

Note: Data gathered highlight whether there was **some** evidence of the theme for analysis and comparison; we are not making a judgment or opinion on whether the design choices are good or bad.

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

1. Alberta, Canada
2. Australia
3. Austria
4. Bahrain
5. Bulgaria
6. Canada
7. Cyprus
8. Czech Republic
9. France
10. Germany
11. Ghana
12. Iceland
13. India
14. Iran
15. Ireland
16. Israel
17. Italy
18. Malaysia
19. Mexico
20. Netherlands
21. U.S. North Dakota
22. North Macedonia
23. Norway
24. Poland
25. Qatar
26. Singapore
27. Switzerland
28. Turkey
29. UAE
30. UK
31. U.S. Utah

Countries not referenced

This is a work in progress. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

1. Bahrain: Unable to find public information or evidence on any of these categories.
2. Bulgaria: Unable to find public information or evidence on any of these categories.
3. China: Unable to find public information or evidence on any of these categories.
4. Ghana: Unable to find public information or evidence on any of these categories.
5. Malaysia: Unable to find public information or evidence on any of these categories.
6. Mexico: Unable to find public information or evidence on any of these categories.
7. Qatar: Unable to find public information or evidence on any of these categories.

App data deletion

A blank field means we were unable to find reference to this. We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

Country / State and Link to Google Play Store to view permissions (7/16/20)	Found evidence of data deletion	Reference	Number of days referenced
Alberta Canada	X	The ABTraceTogether Applications maintains user contact logs for 21 days on a user's phone & Alberta Health Services maintains contact logs used for contact tracing uploaded from contacted users for 21 days. Source	21 days
Australia	X	Uninstalling COVIDSafe will not automatically delete any information already uploaded to the data store, or any of your contact data stored on another user's device in the last 21 days, which could still be uploaded to the data store and used for contact tracing purposes. If you wish any of your contact data uploaded to the data store to be deleted you can expressly ask us to delete your information. Source	21 days
Austria	X	<p>* We delete or anonymize your personal data as soon as it is no longer required for the purposes for which we collected or used it. You can delete the data stored locally on your device (token) by uninstalling or deleting the Stop Corona app. Metadata saved by Uepaa AG (see point 5.3.3) are automatically deleted after 14 days. Data on the device for digital handshake with intensive contacts is deleted in the device after 7 days.</p> <p>* As soon as a sick report has been submitted, your data will be kept for 30 days after the report has been submitted. If it is necessary to clarify illegal or abusive use of the app or for legal prosecution and there are specific indications of illegal or abusive behavior, your data will be stored for a period of up to three years after the sick report has been submitted.</p> <p>* Otherwise we delete all personal data after the epidemic Source</p>	Various
Bahrain		Unable to find this detail.	
Bulgaria		Unable to find this detail. May be located in terms of use but unable to translate.	
Canada	X	The app as a whole will be shut down within 30 days of a declaration by the Chief Public Health Officer of Canada that the pandemic is over. As well, individuals can delete the app at any time. Finally, the TEKs on the device delete after 14 days. In other words, all the information in this app's ecosystem is designed to be kept for the shortest time period necessary to achieve the specific need that information is for.	Various
China		Unable to find this detail.	

App data deletion

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Country / State and Link to Google Play Store to view permissions (7/16/20)	Found evidence of data deletion	References	Number of days referenced
Cyprus	X	<p>* Request for erasure: this enables you to request the deletion of the personal data we hold about you.</p> <p>* We will endeavor to respond to any request as soon as possible and no longer than 30 days from the receipt of the request. In case where we will not be able to respond to your request within the aforementioned time period or in case your request is rejected, we will inform you accordingly explaining the reasons for any delay or for rejecting your request. All rights can be exercised free of charge. Source: https://covid-19.rise.org.cy/RISE_CovTracer_Privacy_Policy_EN.pdf</p>	30 days
Czech Republic	X	<p>* Each application stores your encounter history of the last 30 days, and the user may delete their history whenever.</p> <p>* Source: https://erouska.cz/en/gdpr</p>	30 days
France		<p>* Unable to find source to validate this.</p> <p>* "The French app would only use bluetooth and not geolocation, Cedric O said, and would not track a user's movements. The data would be anonymous and deleted after a certain period."</p> <p>* Source: https://www.reuters.com/article/us-health-coronavirus-france-apps/france-working-on-stopcovid-contact-tracing-app-ministers-say-idUSKBN21Q1D3</p> <p>* After initial privacy concerns, the government has stressed that using the app is entirely voluntary; data can be deleted from the server by the user at any point; and it can also be de-activated by the user.</p> <p>* Source: https://www.cbsnews.com/news/france-coronavirus-restrictions-ease-restaurants-schools-covid-19-contract-tracing-app-rolled-out/</p>	
Germany	X	<p>* At any point in time, you can deactivate the COVID-19 Exposure Notifications feature either in the app itself or in your device's settings, and of course you can always uninstall the app completely.</p> <p>* Source: https://www.coronawarn.app/en/faq/#have_to_use</p> <p>* The way de-installation is handled can change without further notice or any changes to the Corona-Warn-App itself. Hence, please use this means only as a last resort in error resolution.</p> <p>* https://www.coronawarn.app/en/faq/#delete_random_ids</p>	
Ghana		Unable to find this detail	100

App data deletion

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Country / State and Link to Google Play Store to view permissions (7/16/20)	Found evidence of data deletion	App deletion referenced	Number of days referenced
Iceland	X	<p>After the app is installed, it works in the background and saves the location of the phone several times an hour. This data is only stored on the phone itself and not accessible to anyone. Only data that has been stored for the past 14 days and older data is deleted.</p> <p>* Removing the app from your phone will stop working and no locations will be saved to your phone.</p> <p>* Source: https://www.covid.is/app/is</p>	14 days
India	X	<p>* Contact, location and self assessment data of an individual that has been collected by NIC shall not be retained beyond the period necessary to satisfy the purpose for which it is obtained which, unless a specific recommendation to this effect is made in the review under Para 10 of this Protocol, shall not ordinarily extend beyond 180 days from the date on which it is collected, after which such data shall be permanently deleted</p> <p>* Source: https://static.mygov.in/rest/s3fs-public/mygov_159051652451307401.pdf</p>	180 days
Iran		<p>* The information stored in your mask is used only to combat corona in Iran, and the mask does not even allow you to use your unidentified information for scientific purposes. Mask will try to delete your information as soon as possible in order to use it in the fight against corona. It should be noted that only the data that you enter in the "Daily Health Information Input" section will be shared with the Ministry of Health so that the Ministry of Health can provide you with better services by attaching them to your electronic health record. Also, if a legal order is issued by the judicial authorities, the mask will be obliged to present your information to the court</p> <p>* Source: https://mask.ir/privacy.html</p>	
Ireland	X	<p>* There are different treatments of data deletion.</p> <p>* See data retention table: https://github.com/HSEIreland/covidtracker-documentation/blob/master/documentation/privacy/Data%20Protection%20Impact%20Assessment%20for%20the%20COVID%20Tracker%20App%20-%202026.06.2020.pdf</p> <p>* (Sex, age, county, town), 1 day after</p> <p>* (COVID-19 symptoms), 28 days, or until the user removes it by selecting the Leave function; or uninstalling the app</p> <p>* (Mobile number), automatically removed as soon as the SMS is sent, the date and code are removed automatically as soon as the SMS is sent.</p>	Various

App data deletion

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

Country / State and Link to Google Play Store to view permissions (7/16/20)	Found evidence of data deletion	App deletion referenced	Number of days referenced
Israel	X	<p>* The rest of the raw information that will be shared with the Ministry of Health and not used for epidemiological investigations will be deleted within 30 days from the date of sharing with the Ministry of Health, including from the logs and from any stations that this information passed through on its way to the Ministry of Health. During this period, the Ministry of Health may use this data for bettering the information and for improving technological capacities for identifying Coronavirus contamination points. https://govextra.gov.il/ministry-of-health/hamagen-app/magen-privacy-en/</p> <p>* The Ministry of Health may change the Terms of Use and/or the Privacy Declaration, and any such change will be announced through a notification to the device on which the app is installed and a consent request. Users who do not agree with any such changes may uninstall the app. Upon removing the app, the information stored on the device will be deleted. https://govextra.gov.il/ministry-of-health/hamagen-app/terms-and-conditions-of-use-en/</p>	Various
Italy	X	In addition, all recorded contact logs must be deleted once the health emergency is over or by Dec. 31 at the latest. Source: https://www.reuters.com/article/us-health-coronavirus-italy-app/italy-launches-covid-19-contact-tracing-app-amid-privacy-concerns-idUSKBN2383EW	
Malaysia		Unable to find this detail.	
Mexico		Unable to find this detail.	
Netherlands	X	<p>* Only minimal data and metadata necessary for the application purpose may be stored. This requirement prohibits the central collection of any data that is not specific to a contact between people and its duration.</p> <p>* If additional data such as location information are recorded locally on the phones, users must not be forced or tempted to pass this data on to third parties or even publish it. Data that is no longer needed must be deleted. Sensitive data must also be securely encrypted locally on the phone. Source: https://www.privatetracer.org/privacy-by-design (Resource was translated by Google translate)</p>	

App data deletion

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Country / State and Link to Google Play Store to view permissions (7/16/20)	Found evidence of data deletion	App deletion referenced	Number of days referenced
U.S. North Dakota	X	<p>Q: If I change my mind, can I uninstall Care19 and delete all data that it collected?</p> <p>A: Yes, this application works like any other application and may be deleted at any time from your device. In addition, you have the ability through the "About Screen" in the application to delete all data that has been collected from your use of the application as well as see the data that has been collected. This application adheres to all rules outlined in the California Consumer Privacy Act. Source: https://covid.sd.gov/care19app.aspx</p>	
North Macedonia	X	<p>YOU HAVE COMPLETE CONTROL OVER YOUR DATA AND MAY WITHDRAW YOUR CONSENT AT ANY GIVEN TIME You may, at any given time, withdraw your consent for storing your mobile telephone number, by opening the drop-down menu in the upper right corner in the app and selecting the option Delete Data. After you have performed this activity, the app will display a notification with the following message: "All sent registration data and information will be deleted. CANCEL / DELETE", whereby you will be given the opportunity to choose between CANCEL and DELETE. If you choose DELETE, your mobile telephone number will be permanently deleted from our server. Moreover, all data stored in your app, data you have already sent and anonymous codes for your app in other apps that have been nearby will be permanently deleted from our server. Source: https://stop.koronavirus.gov.mk/privacy-policy/en</p>	
Norway	X	<p>* The data about where you have been are recorded from Location Services and Bluetooth by the Smittestopp app. These data are deleted after 30 days. While the Smittestopp app is in use, data from the last 30 days are constantly recorded and older data are deleted. You can delete your personal information at any time by using the delete functionality in the app, or you can delete the app. You can also choose whether to turn the logging features on or off. Source: https://helsenorge.no/coronavirus/smittestopp</p>	30 days
Poland	X	<p>Access to Information. We do not collect any personal information. We maintain appropriate administrative, technical, and physical safeguards to protect any non-personal information from accidental, unlawful, or unauthorised destruction, loss, alteration, access, disclosure, or use and other unlawful forms of processing. All non-personal information is deleted after 14 days.</p> <p>Although anonymous, you can request access, and delete your non-personal information (Random numerical identifiers). Please email info@protegoapp.org for this. Source: https://www.protegoapp.org/privacy-policy</p>	14 days

App data deletion

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

Country / State and Link to Google Play Store to view permissions (7/16/20)	Found evidence of data deletion	App deletion referenced	Number of days referenced
Qatar		Unable to find this detail.	
Singapore	X	<p>Also, the Bluetooth information stored on the phones after 25 days is automatically deleted. The app will cease functionality at the end of the outbreak.</p> <p>* Source: https://support.tracetogogether.gov.sg/hc/en-sg/articles/360043543473-How-does-TraceTogether-work</p> <p>* You may request for your identification data to be deleted on our servers</p> <p>You may request for your identification data to be deleted on our servers, unless your proximity data has already been uploaded as a confirmed case.</p> <p>* You can do so by emailing support@tracetogogether.gov.sg with the mobile number you registered in the app.</p> <p>* We will then delete your mobile number, identification details and User ID from our server. This renders meaningless all data that your phone has exchanged with other phones, because that data will no longer be associated with you.</p> <p>* https://www.tracetogogether.gov.sg/common/privacystatement</p>	25 days
Switzerland	X	<p>Data about other users recorded by your mobile phone is only saved locally on the device. Neither the mobile phone nor the SwissCovid app sends any personal or location data to a central storage location or server. This means that no one can work out who you have been in contact with or where that contact took place. Once the coronavirus crisis is over, or if the app proves to be ineffective, the system will be shut down.</p> <p>https://www.bag.admin.ch/bag/en/home/krankheiten/ausbrueche-epidemien-pandemien/aktuelle-ausbrueche-epidemien/novel-cov/swisscovid-app-und-contact-tracing.html#-1601404801</p>	
Turkey		Unable to find this detail.	
UAE	X	<p>* What happens when I uninstall TraceCovid?</p> <p>Once TraceCovid is uninstalled, all records and Secure Tracing Identifier (STI) data will be deleted.</p> <p>* Source: https://tracecovid.ae/</p>	

App data deletion

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

Country / State and Link to Google Play Store to view permissions (7/16/20)	Found evidence of data deletion	App deletion referenced	Number of days referenced
UK (No longer available as of June 26, 2020)	X	<ul style="list-style-type: none"> * The app on your phone will keep a log of anonymous contact data for a maximum of 28 days. After 28 days, this information will be deleted. * Source: https://covid19.nhs.uk/privacy-and-data/how-we-use-your-data.html * You can delete the app and all of its data whenever you want. We'll always comply with the law around the use of your data. * If you delete your NHS Covid-19 App or We end your right to use the NHS Covid-19 App: * Any personal data we hold about you will be dealt with in accordance with our Privacy Notice, available via the link under clause 2.4 of these terms of use * All rights granted to you under these terms of use shall automatically cease without further notice * We will cease providing you with access to the NHS Covid-19 App and Services * You will always be able to delete the NHS COVID-19 app and all associated data whenever you want. We will always comply with the law around the use of your data, including the Data Protection Act and will explain how we intend to use it. The data will only ever be used for NHS care, management, evaluation and research. * Data you share with the NHS, either proactively or as part of requesting a test, may be retained and used in the future for research that is in the public interest. The NHS may also use this for planning and delivering services. We'll always comply with the law around the use of data, including the General Data Protection Regulation (GDPR) and the Data Protection Act 2018. * Some smartphone's operating systems may retain some information after the app is deleted, in line with how they work for all apps. * Source: https://faq.covid19.nhs.uk/article/KA-01027/en-us 	28 days
U.S - Utah	X	<p>All symptom data is automatically de-identified after 30-days. All location data is automatically deleted after 30-days.</p> <ul style="list-style-type: none"> * You can fully delete your data at any time. Location data will automatically be deleted after 30 days. Symptom data will be automatically de-identified after 30 days. * Source: https://coronavirus.utah.gov/healthy-together-app/ 	30 days

4.3 App downloads (Google Play only)



Key questions

- How many Google Play Store app installs does each app have?
- What privacy policy does the app reference?
- Disclaimer: The numbers are likely higher given that we are only looking at Android devices through Google Play and not Apple iOS store.

Sub-themes and findings:

- In this section, we looked at 27 apps that were available and live for download on the Google Play Store (as of July 17, 2020).
 - 1 app (UK) has been no longer available as of June 26, 2020.
 - 2 apps (Iran, Netherlands) we were unable to find on Google Play Store
 - Therefore, we will be analyzing 27 (instead of 30) apps in this section
- App downloads listed at the following thresholds:
 - (2 of 28) 1,000+ (Cyprus, Ghana)
 - (3 of 28) 10,000+ (Bulgaria, Mexico, U.S. - Utah)
 - (4 of 28) 50,000+ (Alberta Canada, Iceland, U.S. - North Dakota, North Macedonia)
 - (8 of 28) 100,000+ (Austria, Bahrain, Czech Republic, Malaysia, Norway, Poland, UAE)
 - (2 of 28) 500,000+ (Ireland, Switzerland)
 - (6 of 28) 1,000,000+ (Australia, France, Israel, Italy, Qatar, Singapore)
 - (2 of 28) 5,000,000+ (Germany, Turkey)
 - (1 of 28) 100,000,000+ (India)

Countries referenced

Note: Data gathered highlight whether there was **some** evidence of the theme for analysis and comparison; we are not making a judgment or opinion on whether the design choices are good or bad.

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

1. Alberta, Canada
2. Australia
3. Austria
4. Bahrain
5. Bulgaria
6. Canada
7. Cyprus
8. Czech Republic
9. France
10. Germany
11. Ghana
12. Iceland
13. India
14. Ireland
15. Israel
16. Italy
17. Malaysia
18. Mexico
19. U.S. North Dakota
20. North Macedonia
21. Norway
22. Poland
23. Qatar
24. Singapore
25. Switzerland
26. Turkey
27. UAE
28. U.S. Utah

Countries not referenced

This is a work in progress. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

1. China: Unable to find public information or evidence on any of these categories.
2. Iran: we were unable to find on Google Play Store
3. Netherlands: we were unable to find on Google Play Store
4. UK: has been no longer available as of June 26, 2020.

Countries referenced

We are not claiming these references are all inclusive as there are many resources that can help give a better picture of these categories that may not be mentioned in this study. If there is information you have that is not reflected here that can help add, edit, or correct information, please let us know.

Sources referenced:

(Col C) Population (US): <https://datacommons.org/place/geold/25>
 (Col C) Population (Non-US): <https://datacommons.org/place/geold/25>
 (Col D) Android device % by country (Android): <https://deviceatlas.com/>
 For the countries not available on that site, we assumed a 50% Android spread.
 We indicate those countries with *. These are approximations, not exact figures.
 (Col F + G) Apple App Store website
 (Col B + H) Google Play store website

(A) Country / State and Link to Google Play Store * = Notes app is mandatory	(B) Number of app installs on Google Play (Viewed 7/16/20)	(C) Number of app installs on Google Play (Viewed 11/3/20)	(D) Population (2019)	(E) % Android Spread by Country / State	(F) Estimated Percentage of Android Adoption	(G) Current version	(H) Original date deployed in first version (App Store)	(J) Last updated (Google Play Store)	(K) Privacy Policy referenced
Alberta Canada	50,000+	100,000+	4.371 million	50%*	2.3%	1.2.0	May 1, 2020	June 17, 2020	https://alberta.ca/ABTraceTogetherPrivacy
Australia	1,000,000+	1,000,000+	24.99 million	40%	10.0%	1.0.33	April 26, 2020	July 24, 2020	https://www.health.gov.au/using-our-websites/privacy
Austria	100,000+	100,000+	8.859 million	65%	1.7%	2.0.3.10 57-QA_ 245	March 27, 2020	June 28, 2020	https://www.roteskreuz.at/site/faq-app-stop-corona/datenschutzinformation-zur-stop-corona-app/
Bahrain*	100,000+	100,000+	1.569 million	50%*	12.7%	0.1.9	March 28, 2020	July 5, 2020	https://bahrain.bh/wps/portal/TermsConditions_en
Bulgaria	10,000+	10,000+	7 million	74%	0.2%	1.0.3	April 6, 2020	May 27, 2020	https://virusafe.io/information/terms-of-use.html
Canada	100,000+	1,000,000+	37.59 million	42%	0.6%	1.0.2	July 30, 2020	July 30, 2020	https://digital.canada.ca/exposure-notification-app-privacy-policy/
Cyprus	1,000+	1,000+	1.17 million	50%*	0.2%	2.0.2	May 15, 2020	June 11, 2020	http://covid-19.rise.org.cy/en/privacy/
Czech Republic	100,000+	1,000,000+	10.69 million	65%	1.4%	1.0.437	May 3, 2020	May 22, 2020	https://erouska.cz/gdpr

Countries referenced

(A) Country / State and Link to Google Play Store * = Notes app is mandatory	(B) Number of app installs on Google Play (Viewed 7/16/20)	(C) Number of app installs on Google Play (Viewed 11/3/20)	(D) Population (2019)	(E) % Android Spread by Country / State	(F) Estimated Percentage of Android Adoption	(G) Current version	(H) Original date deployed in first version (App Store)	(J) Last updated (Google Play Store)	(K) Privacy Policy referenced
France	1,000,000+	1,000,000+	66.99 million	58%	2.6%	1.1.0	June 2, 2020	June 26, 2020	https://bonjour.stopcovid.gouv.fr/privacy.html
Germany	5,000,000+	10,000,000+	83.02 million	67%	9.0%	1.0.5	June 15, 2020	July 7, 2020	https://www.coronawarn.app/assets/documents/cwa-privacy-notice-de.pdf
Ghana	1,000+	5,000+	29.77 million	83%	0.0%	1.0.3	Unknown	May 8, 2020	http://www.dataprotection.org.gh/privacy-policy
Iceland	50,000+	100,000+	364,134	50%*	27.5%	2.1.1	April 2, 2020	July 14, 2020	https://www.covid.is/app/privacystatement
India*	100,000,000+	100,000,000+	1.353 billion	91%	8.1%	1.4.1	April 2, 2020	July 8, 2020	https://web.swaraksha.gov.in/ncv19/privacy/
Iran	Unable to find app on Google Play Store								
Ireland	500,000+	500,000+	4.904 million	57%	17.9%	1.0.1.44	July 6, 2020	July 17, 2020	http://covidtracker.ie/privacy-and-data
Israel	1,000,000+	1,000,000+	8.884 million	66%	17.1%	1.4.7	March 22, 2020	June 16, 2020	https://govextra.gov.il/ministry-of-health/hamagen-app/Privacy-policy-EN
Italy	1,000,000+	5,000,000+	60.36 million	67%	2.5%	1.3.0	June 1, 2020	July 10, 2020	https://govextra.gov.il/ministry-of-health/hamagen-app/Privacy-policy-EN

Countries referenced

(A) Country / State and Link to Google Play Store * = Notes app is mandatory	(B) Number of app installs on Google Play (Viewed 7/16/20)	(C) Number of app installs on Google Play (Viewed 11/3/20)	(D) Population (2019)	(E) % Android Spread by Country / State	(F) Estimated Percentage of Android Adoption	(G) Current version	(H) Original date deployed in first version (App Store)	(J) Last updated (Google Play Store)	(K) Privacy Policy referenced
Malaysia	100,000+	100,000+	31.53 million	76%	0.4%	1.0.30	Unknown (No App Store version with date)	April 26, 2020	https://www.mosti.gov.my/web/dasar-privasi/
Mexico	10,000+	50,000+	126.2 million	67%	0.0%	1.0.2	April 19, 2020	May 2, 2020	http://covidradar.mx/avisoprivacidad.html
Netherlands	Unable to find app on Google Play Store								
U.S. North Dakota	50,000+	50,000+	762,062	33% (USA)	19.9%	3.1	April 7, 2020	June 26, 2020	https://care19.app/privacy
North Macedonia	50,000+	50,000+	2.077 million	50%*	4.8%	1.1.0	April 12, 2020	May 7, 2020	https://stop.koronavirus.gov.mk/privacy/en
Norway	100,000+	100,000+	5.433 million	49%	3.8%	1.3.0	Unable to access App store first version date	June 8, 2020	https://www.fhi.no/om/fhi/nedlasting-og-bruk-av-smittestopp/
Poland	100,000+	1,000,000+	37.97 million	70%	0.4%	4.2.2	April 30, 2020	July 14, 2020	https://www.gov.pl/web/protegosafe/dokumenty
Qatar*	1,000,000+	1,000,000+	2.782 million	62%	58.0%	8.0.4	April 25, 2020	July 2, 2020	https://moi.gov.qa/

Countries referenced

(A) Country / State and Link to Google Play Store * = Notes app is mandatory	(B) Number of app installs on Google Play (Viewed 7/16/20)	(C) Number of app installs on Google Play (Viewed 11/3/20)	(D) Population (2019)	(E) % Android Spread by Country / State	(F) Estimated Percentage of Android Adoption	(G) Current version	(H) Original date deployed in first version (App Store)	(J) Last updated (Google Play Store)	(K) Privacy Policy referenced
Singapore	1,000,000+	1,000,000+	5.639 million	55%	32.2%	2.1.4	March 18, 2020	July 7, 2020	http://www.tracetgether.gov.sg/common/privacystatement
Switzerland	500,000+	500,000+	8.57 million	50%	11.7%	1.0.5	Unable to access App store first version date	June 20, 2020	https://www.bag.admin.ch/swisscovid-datenschutzerklaerung-und-nutzungsbedingungen
Turkey*	5,000,000+	10,000,000+	82 million	71%	8.6%	2.0.9	April 14, 2020	June 24, 2020	https://hesapp.saglik.gov.tr/hayat_eve_sigar_aydinlatma.pdf
UAE*	100,000+	No longer on app store	9.361 million	60%	1.8%	1.1.6	April 3, 2020	April 13, 2020	https://tracecovid.ae/privacy.html
UK (No longer available as of June 26, 2020)	50,000+	No longer on app store	66.65 million	54%	0.1%	X	May 5, 2020	June 26, 2020	https://covid19.nhs.uk/our-policies.html
U.S - Utah	10,000+	10,000+	3.206 million	33% (USA)	0.9%	1.2.48	April 22, 2020	July 15, 2020	https://healthytogether.io/legal/privacy



Section 6

Conclusions

Conclusions

1. **Onboarding transparency:** 16 of 18 apps created walkthroughs in onboarding to more transparently communicate a number of key benefits and safeguards such as data privacy and how the app works and uses your data. This was implemented to gain user trust by explaining how COVID-19-related apps work through onboarding methods, illustrations, and design layout (pp.12-46).
2. **Privacy settings:** Authorities and app developers build privacy settings features often separate from the core app user experience (pp.47-61). 16 of 31 apps feature settings, app permissions and data collection features placed more prominently on one of the apps main tabs; This is done through mechanisms such as toggles, on/off buttons, iconography, checkmarks, “active or inactive” cards, and color-coded background toggles. This feature can position the app data collection process to be more transparent to the user every time they log into the system.
3. **Privacy governance processes:** In various apps, there is evidence of articulating the data governance and app creation through app specific privacy policies, data deletions and/or privacy or data protection impact assessments (pp.62-72). 23 of 31 apps feature a privacy policy specific to the app, 17 of 31 apps we were able to find some evidence of open source documentation which signals attempts at transparency and the option to engage the research and developer community to continually improve the application. 7 of 30 apps showed evidence of privacy or data protection impact assessments, which signals that there are processes in place to identify and manage potential risks.



Section 5: Appendix of screenshots

Alberta, Canada

AB Trace Together

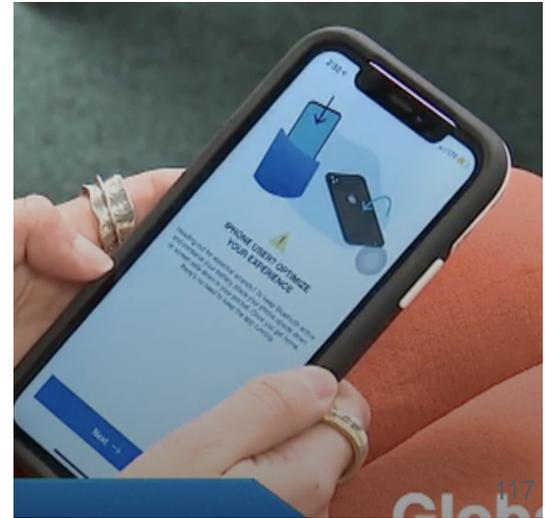
er at 6 Edmonton

ly works on iPhones with unlocked, app running in f

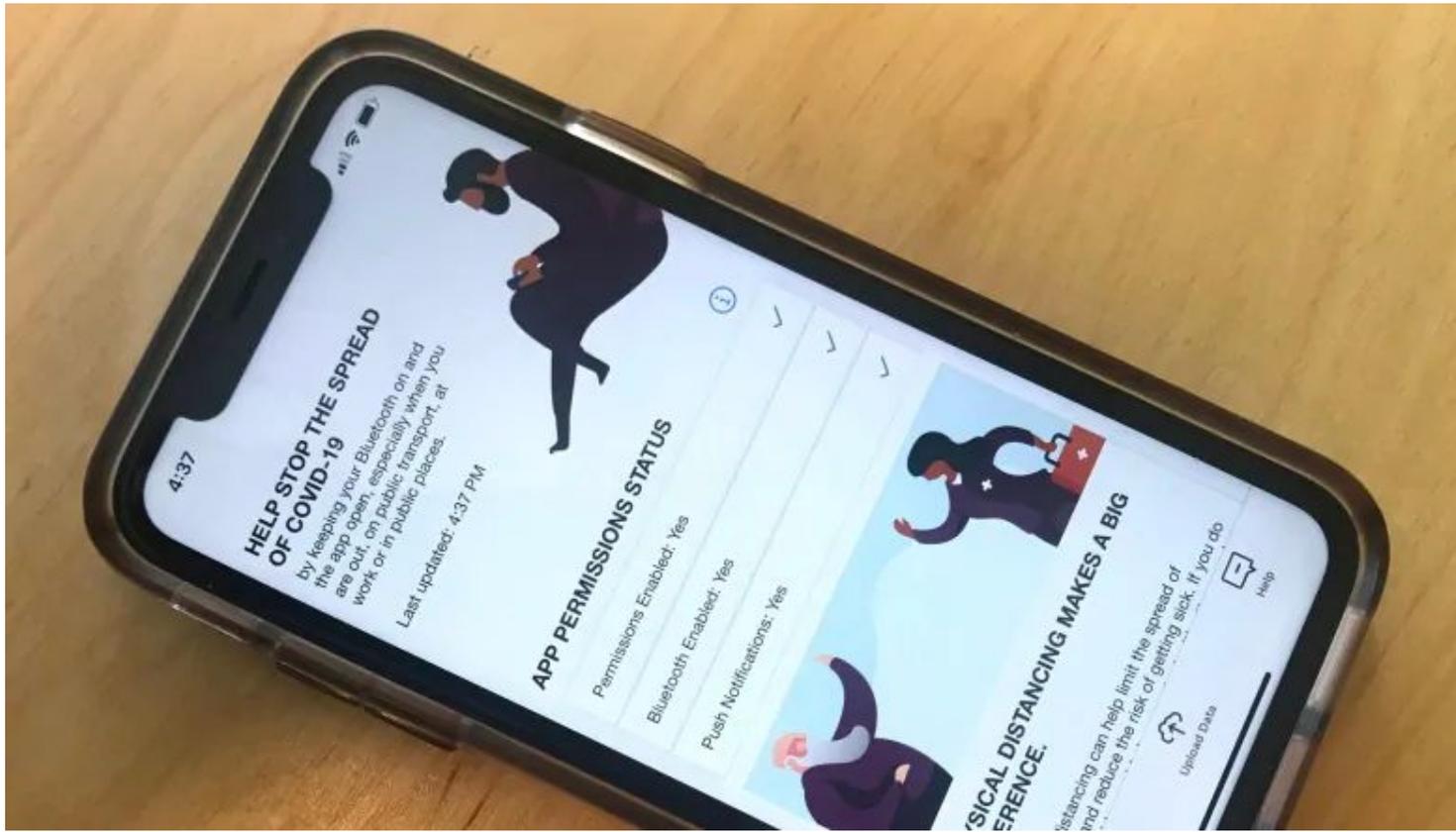


Edmonton

s on iPhones with unlocked, app running in f

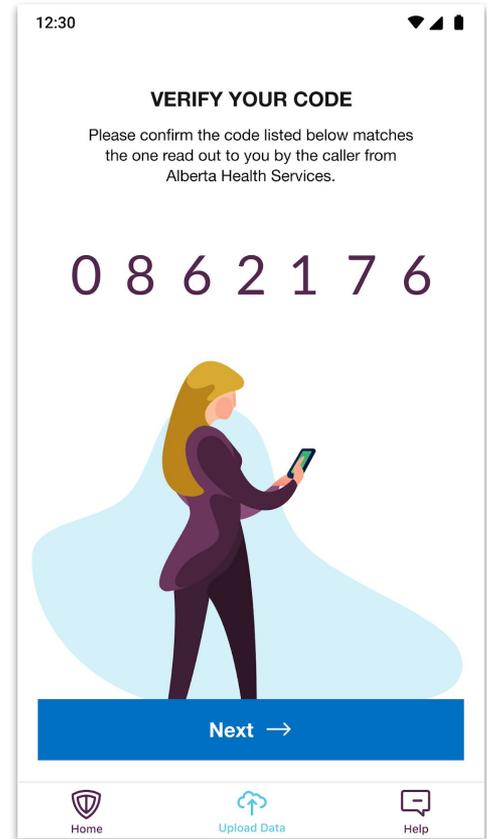
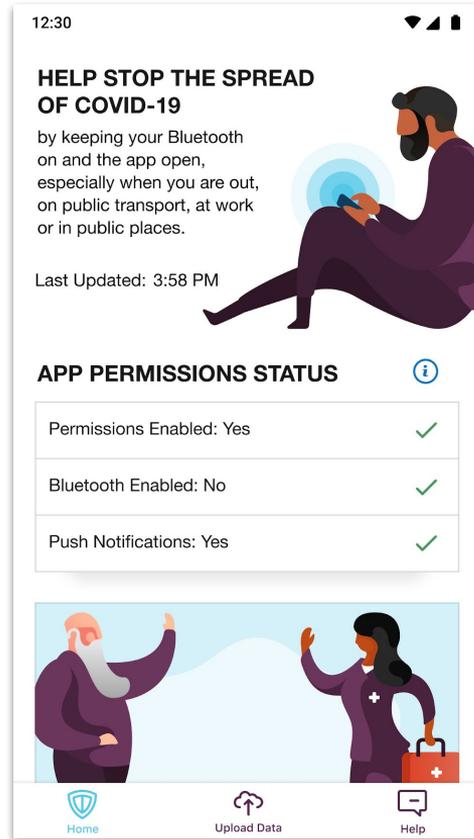


<https://globalnews.ca/news/6898691/ab-trace-together-contact-app-alberta-covid-ios/>



Alberta, Canada
ABTraceTogether

<https://www.alberta.ca/ab-trace-together.aspx>

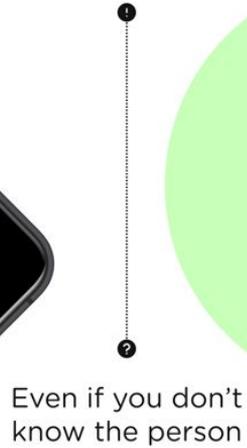


Australia COVIDSafe

Join the fight
to stop the spread of
COVID-19

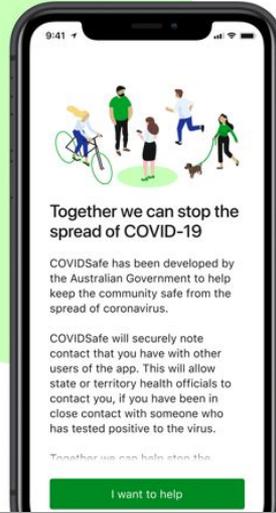


Get notified quickly
if you come into
contact with
COVID-19



Even if you don't
know the person

Your identity is
safeguarded



You're in control
of your information



Let's stop the spread.
Stay home, save lives



Appstore

Request data deletion

This form will start the process to remove your data from the COVIDSafe secure information storage system. You will be asked to validate your identity through a phone call from the COVIDSafe Administrator.

Please refer to the [COVIDSafe privacy policy](#) when providing information in this form

Full name used to register for the COVIDSafe app

Mobile number used to register for the COVIDSafe app

You will be contacted on this phone number by a COVIDSafe Administrator to complete the process.

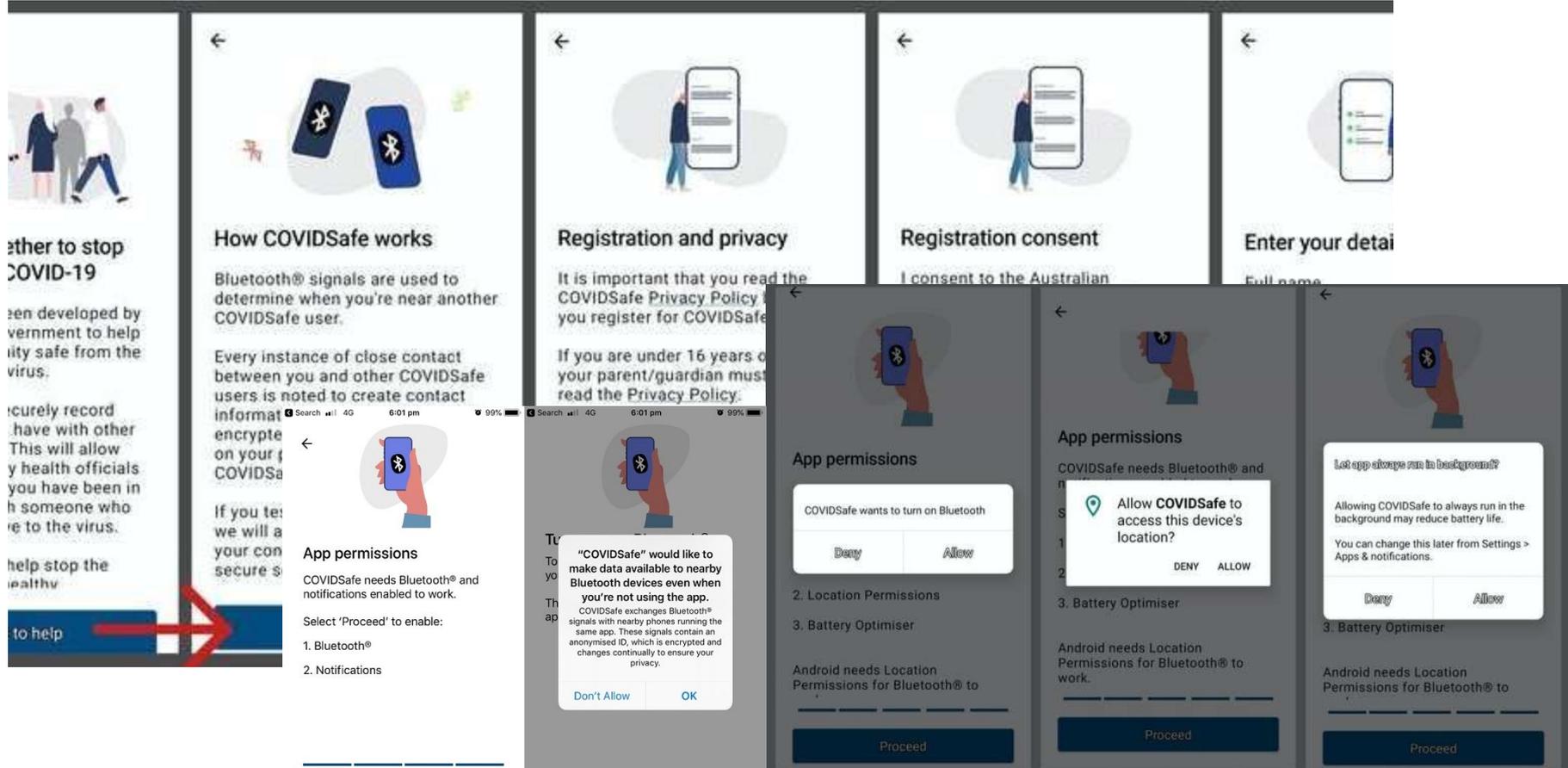
I'm not a robot



I have read the [COVIDSafe collection notice](#) and consent to the information provided being used and disclosed by the Australian Government to enable the Commonwealth, state and territory governments to respond to COVID-19. I have only included information about myself, or about another person who has either given me their consent to provide their information or where I am that other person's parent or legal guardian.

App deletion

Australian Government



More screenshots

<https://techxplore.com/news/2020-04-covidsafe-tracking-app-issues.html>

COVIDSafe Help



For more help, see our [FAQ](#).

-  **Share COVIDSafe** >
Invite others to join. Together, we're stronger.
-  **Get the Coronavirus app** >
Download the Government app for the latest numbers, news and advice.



COVIDSafe is active

There is nothing else you need to do except to leave the app running and keep Bluetooth® on

For more help, see our [FAQ](#).

-  **Share COVIDSafe** >
Invite others to join. Together, we're stronger.
-  **Get the Coronavirus app** >



Latest news and updates >
Head to aus.gov.au for the latest Coronavirus news.



Has a health official asked you to upload your data?

[Upload my data](#)

Version Number: 1.0.11

COVIDsafe App >

Today 10:12 am

The COVIDsafe App has detected you are now +20km from your nominated home address. Please register your reason for travel by calling 1300 1MY GOV ([+61 1300 169 468](tel:+611300169468)) within 15 minutes of receiving this SMS (10:12am AEST Monday 27 April 2020). Thank you.



- Please take note**
1. Keep your phone with you when you leave home.
 2. Keep the app running.
 3. Keep Bluetooth® on.

Check permissions Help



COVIDSafe needs permission to access these features.

App permission status

- Bluetooth: Off ✖
- Location: On ✔
- Battery optimization: Off ✔



Protect yourself and others: download the COVIDSafe app

Case numbers

Latest government advice

News & Media View all

Australian Health Protection Principal Committee (AHPPC) statement on early childhood and learning centres

Additional \$20 million for research into mental health and suicide prevention

Australian Health Protection Principal Committee (AHPPC) statement on restoration of elective surgery and hospital activity



https://www.health.gov.au/health-news/covidsafe-tracking-app-is-useless-flaw-requiring-app-to-stay-open/coronavirus_Australia

See the latest COVID-19 news in your language

Coronavirus (COVID-19)

Essential information 4:30PM AEST on Thursday, 9 April 2020

Symptom checker

Advice

Register isolation

News & Media

Current Status

States and territories

Austria
STOPP Corona

Digitaler Handshake

Nutzen Sie den digitalen Handshake um **anonym** Ihre Begegnungen zu speichern. Sie werden anonym in der App benachrichtigt, wenn eine Ihrer Kontaktpersonen erkrankt ist.

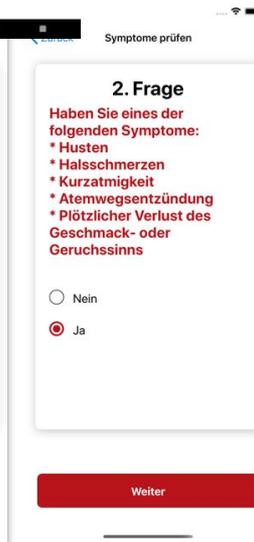
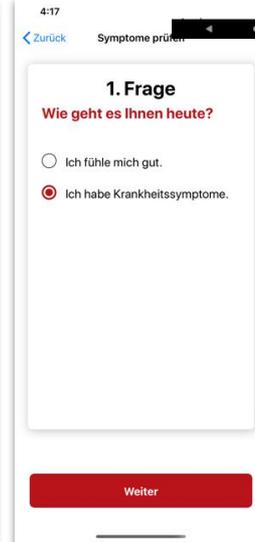
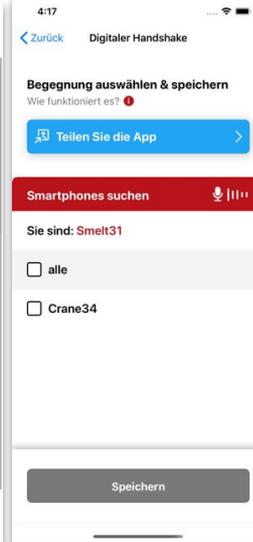


Use the digital handshake to save your encounters anonymously. You will be notified anonymously in the app if one of your contact persons is ill.

Weiter

CORONA


ÖSTERREICHISCHES ROTES KREUZ
Aus Liebe zum Menschen.



Austrian Red Cross Stopp Corona

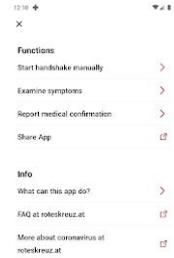
Suspected case. You have completed the questionnaire and there is suspicion of a corona infection. Quarantine days.

Give the all clear
Report medical confirmation

Reported sick. Please stay in Quarantine. You have officially reported sick as suffering from the coronavirus.

Question. How are you today?
I feel good.
I have symptoms of illness.

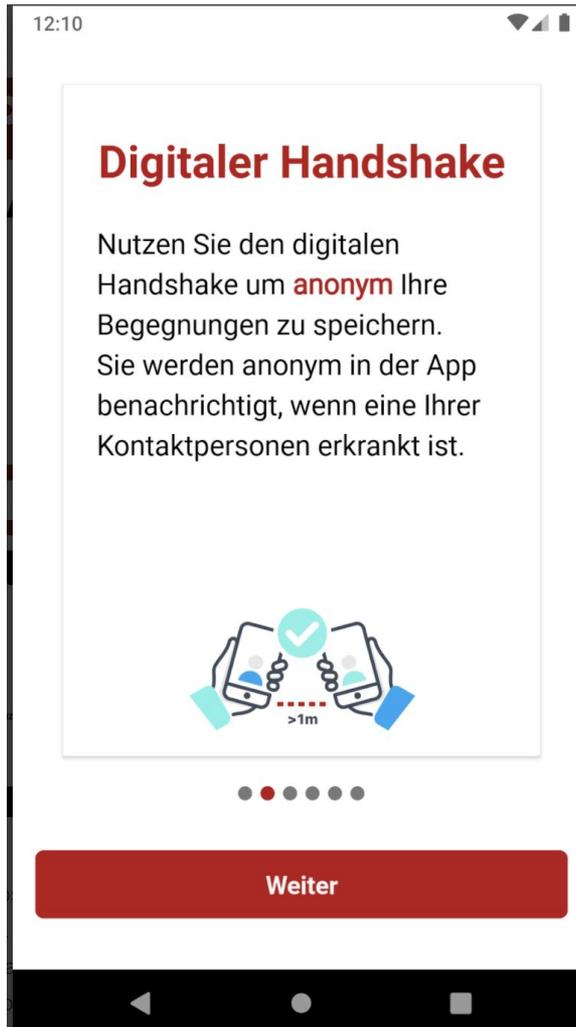
Do you have any of the following symptoms:
Cough
Sore throat
shortness of breath
Respiratory infection
Sudden loss of taste or smell

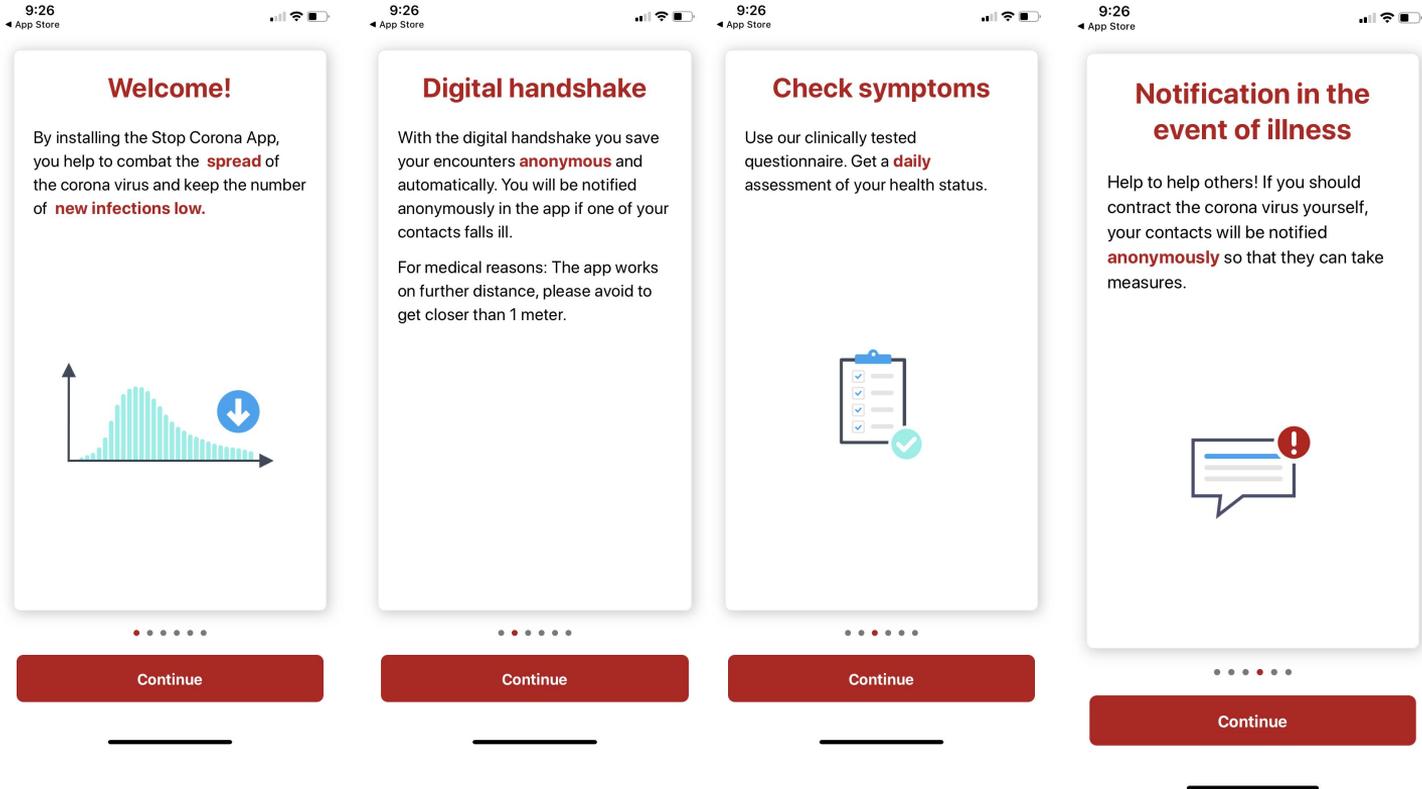


Digital Handshake (Austria Red Cross)

It will definitely be a while before we'll actually shake each others hands again. In the meantime: use "Stopp Corona"s digital handshake.

If you and the person you encounter have installed the app, you can simply select each other. The app will anonymously save your meeting. Should one of you fall sick with the corona virus the other will receive an instant notification.





iOS app version 2.0.2. Last update 6/26/20. Last accessed 6/28/20

Thank you for using the app!

You're actively helping to protect your health and the health of others. You can now record encounters with other app users.

By installing the app you agree to the [terms of use](#).



Continue

Declaration of consent

I agree that the Austrian Red Cross (ÖRK) may process my personal data (random figures ["random-IDs"], my telephone number, and any suspicion and reporting of my COVID-19 condition [= health data]) for the purpose of rapid interruption of the corona infection chain.

I consent

I may revoke my consent at any time, whereby revocation does not affect the fullness of processing up until the time that consent is revoked.

Further information can be found in our [privacy policy](#).



Finished

Digital Handshake



Automatic handshake:

inactive

None of

automat

handsh

How do

Enable COVID-19 Exposure Logging and Notifications

Your iPhone can securely collect and share random IDs with nearby devices. The app can use these IDs to notify you if you may have been exposed to COVID-19. The date, duration, and signal strength of an exposure will be shared with "Stopp Corona".

Don't Enable

Enable

Share the app!

Share the app and protect yourself and your environment.



Share App



Digital Handshake



Automatic handshake:

inactive

None of

automat

handsh

How do

"Stopp Corona" Would Like to Send You Notifications

Notifications may include alerts, sounds, and icon badges. These can be configured in Settings.

Don't Allow

Allow

Share the app!

Share the app and protect yourself and your environment.



Share App



Bahrain
BeAware

Support preventing the spread of coronavirus (COVID-19) by downloading **BeAware Bahrain** App via bahrain.bh/apps



-  Notifications of close proximity with confirmed cases
-  Tracking movement of home quarantine cases
-  Monitoring effected cases of close proximity
-  Official updates on local & international statistics on COVID-19 development
-  General information & Awareness guidelines about the virus



New service added to **BeAware Bahrain** App

-  **Self-Isolation exit test appointment**
 - Allows self-Isolation Individuals to book their exit test appointment.
 - Exit test appointment will be conducted via a **drive-through testing facilities** at the Bahrain International Exhibition & Convention Center without the need to get out of the vehicle.
 - The appointment can be booked **3 days** before the end of the self-Isolation/quarantine period completion.

https://www.bahrain.bh/wps/portal/!ut/p/a1/jZDLDoJADEW_xQVbWgdBdDcS8REJPhBxNgbM OGqQMYjg54u6wnd3bc5JbwsMAmBJmO9EmO1kEsa3nhmrvotGnZhkiJ6POHFs29P9mYW6 XgLLCgBpXaSu0Rw3_RYxTPzPR-JY9UGjBBwHkZqd6cizLcSe9qf_oejP_TOewALYE_Z6xR3 4FvMBfM4xBCZiGd1_uqRjPjKcWMO3POWpek7L8TbLjge2ggoWRaEKKUXM1bU8KPhO2cp TBkGVhONhPg8ug70e5yNKa7Urzjiwiv!!/dl5/d5/L2dBISevZ0FBIS9nQSEh/



#فريق البحرين
#TeamBahrain

#UnitedAgainstCOVID19

Containing and preventing the Coronavirus (COVID-19) from spreading is a national responsibility.

Next

How will the app achieve its objectives?

The app mainly utilizes location data shared by users to do the following:

- Alert and notify individuals** that have been in close proximity with a newly confirmed case during the past 14 days of confirming that case.
- Track the movement of self-isolated individuals' cases** for the duration of their isolation, to ensure they abide by quarantine regulations.

Previous Next

Location Services must be enabled to use the app

Please enable location Services and set it to **Always** to allow the app to function accurately in order to protect you and others.

Key practices to ensure privacy and safety:

Data privacy is in line with the Personal Data Protection law.

Data will be collected for two to six weeks based on contact tracing cases.

Data will be strictly used for the sole purpose of limiting the spread of Coronavirus.

Data encryption will be used to protect sensitive data.

Previous Next

Registration

Personal number

Mobile Number

Complete Registration

BeAware Bahrain

Contact Tracing

You have not come into close proximity with any active case. Stay safe.

eServices

Coronavirus Test Results

Summary of Cases

Last updated: 01-04-2020 - 08:16 PM

Total Tested	31330
Active Cases	215
Critical Cases	1
Stable Cases	12
Discharged Cases	254

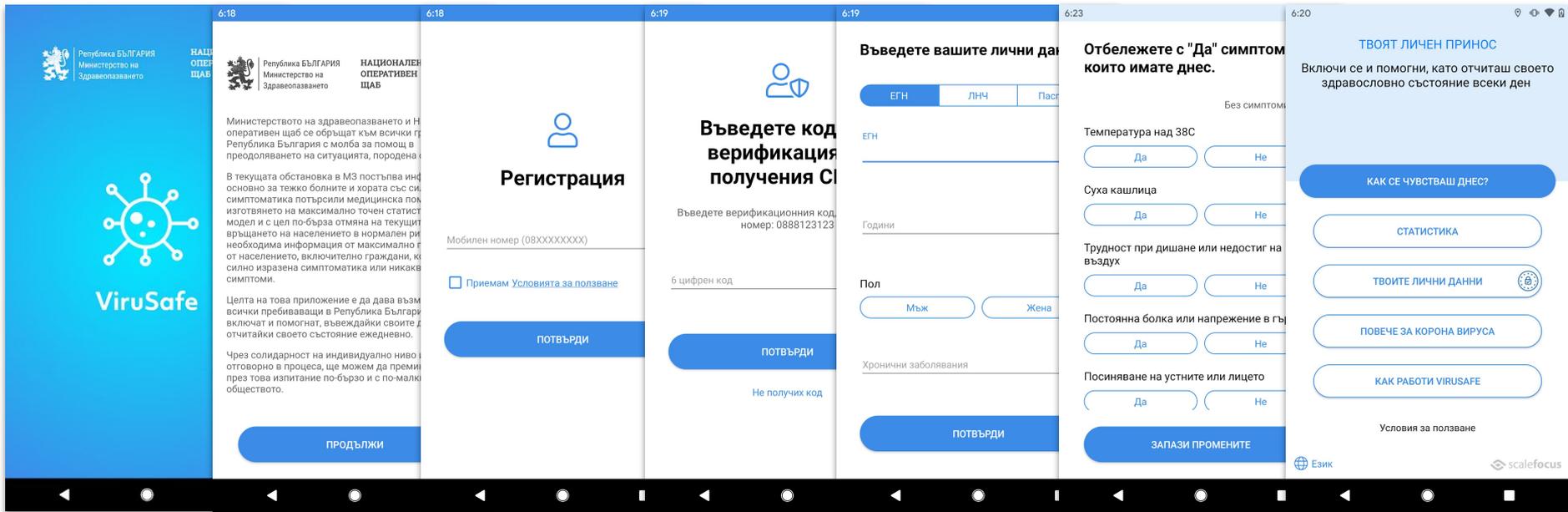
Home Decisions Information Global Statistics

<https://play.google.com/store/apps/details?id=bh.bahrain.corona.tracker>

Google Play Store (7/2/20)

Bulgaria

Virusafe



Republic of Bulgaria Ministry of Health
Virusafe (6/28/20)

<https://play.google.com/store/apps/details?id=bg.government.virusafe>

Canada COVID Alert

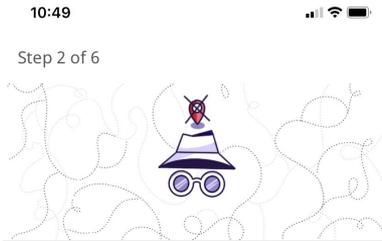


Together, let's stop the spread of COVID-19

COVID Alert helps us break the cycle of infection. The app can let people know of possible exposures before any symptoms appear.

That way, we can take care of ourselves and protect our communities.

• • • • • Next



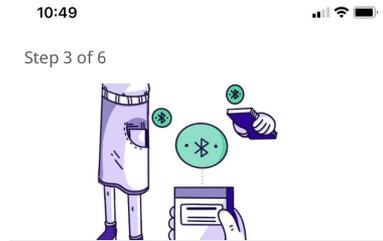
Your privacy is protected

COVID Alert **does not use GPS** or track your location.

It has **no way of knowing**:

- ✗ Your location.
- ✗ Your name or address.
- ✗ Your phone's contacts.
- ✗ Your health information.
- ✗ The health information of anyone you're near.

Back • • • • • Next



How it works

- ✓ The app uses Bluetooth to exchange random codes with nearby phones.
- ✓ Every day, it checks a list of random codes from people who tell the app they tested positive.
- ✓ If you've had close contact with one of those people in the past 14 days, you'll get a notification.

Learn more about how it works >

Back • • • • • Next

COVID Alert

<https://apps.apple.com/ca/app/id1520284227>, iOS app v. 1.0.2, accessed 8/1/20

Close



How COVID Alert works

The app runs in the background and will not interrupt your activities.

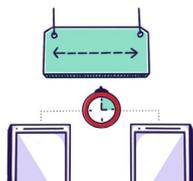
Whenever you're near someone else with COVID Alert, both phones exchange random codes every 5 minutes.

The random codes change often and cannot be used to identify you.



Next

Close



What's an exposure?

The app estimates how near people are by the strength of Bluetooth signals.

If you're closer than 2 metres for more than 15 minutes, the app will record an exposure.



Next

Close



Getting a positive test

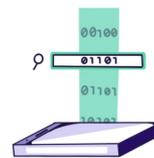
If someone with the app is diagnosed with COVID-19, they can choose to upload the random codes their phone sent. The codes go into a central server.

The server only gets the codes. It does not get any information about the person.



Next

Close



Looking for exposures

Every day, whenever it has an Internet connection, your phone will get a list of the random codes from people who reported a diagnosis.

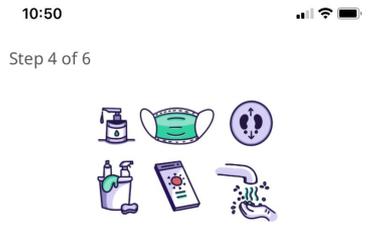
If it finds codes that match, the app notifies you that you've been exposed and explains what to do next.



Done

COVID Alert

<https://apps.apple.com/ca/app/id1520284227>, iOS app v. 1.0.2, accessed 8/1/20



Step 4 of 6

One part of public health

- COVID Alert is just one part of the public health effort to stop the spread of COVID-19.
- Follow all public health guidelines in your area.
- COVID Alert does not replace medical advice. If you get sick, contact your doctor or other healthcare provider.

Back Next



Step 5 of 6

The app will now ask your permission

Allow the app to start logging random codes or “random IDs” when you’re near other phones. The app will access the date, duration and signal strength related to the random codes, but they never leave your phone.

You’ll also need to **let the app send you notifications**.

[Learn more about privacy](#) >

Back Next



Close

Privacy policy

Your privacy is protected

COVID Alert is built with strong privacy protection.

It’s extremely unlikely that you could be identified while using this app. The COVID Alert app takes extensive steps, described below, to ensure your privacy and data are protected.

Use of the app is voluntary.

What the app collects and stores on your phone

- Random codes from your phone, for 14 days.
- Random codes from other phones near you, for 14 days.

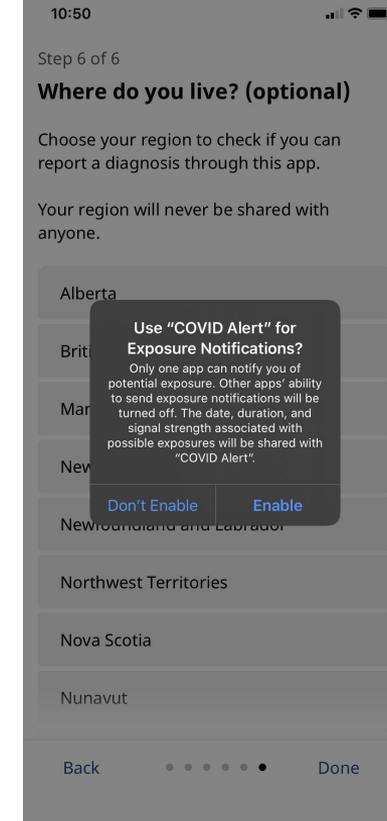
The random codes are only stored and used for the purpose of notifying you, or others, of possible COVID-19 exposure.

How the data is protected

- The app cannot connect your identity with the random codes.
- Your phone encrypts the random codes. You must give your permission before your phone will share the random codes with COVID Alert.

COVID Alert has no way of knowing

- Your location.
- Your name or address.



Step 6 of 6

Where do you live? (optional)

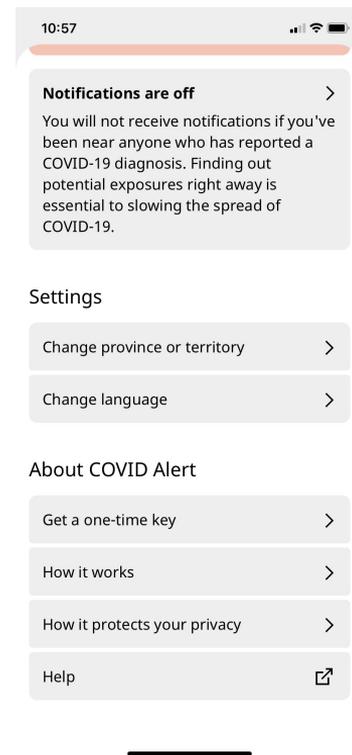
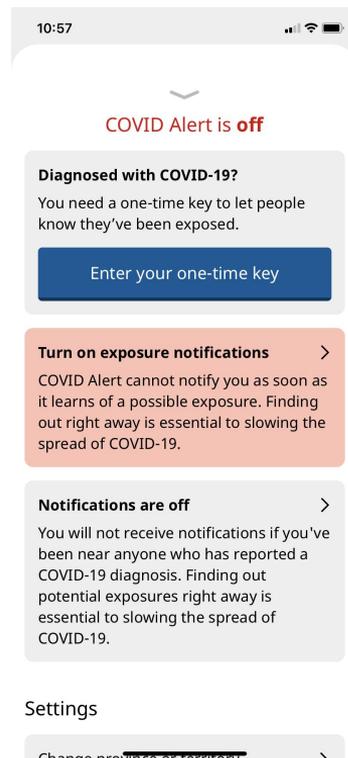
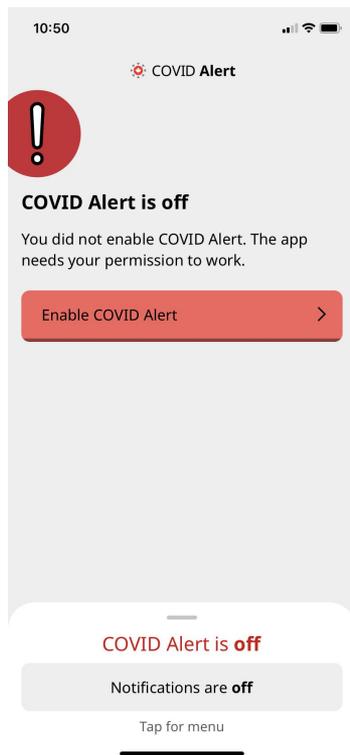
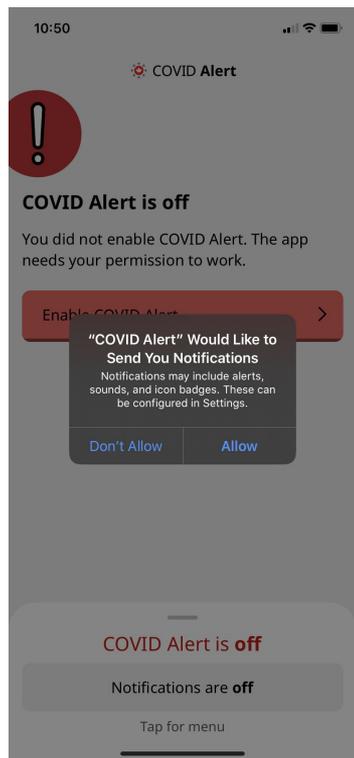
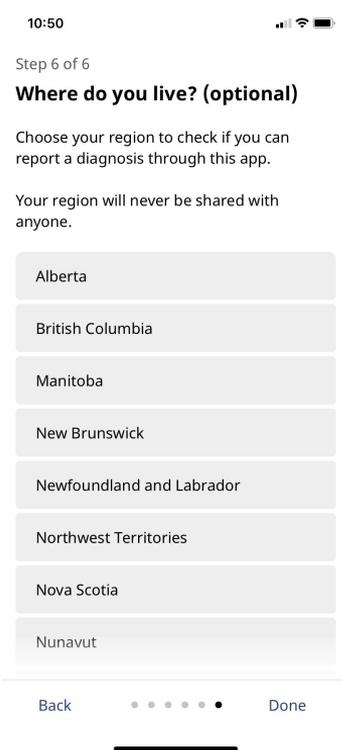
Choose your region to check if you can report a diagnosis through this app.

Your region will never be shared with anyone.

- Alberta
 - British Columbia
 - Manitoba
 - New Brunswick
 - Newfoundland and Labrador
 - Northwest Territories
 - Nova Scotia
 - Nunavut
- Back Done

COVID Alert

<https://apps.apple.com/ca/app/id1520284227>, iOS app v. 1.0.2, accessed 8/1/20



COVID Alert

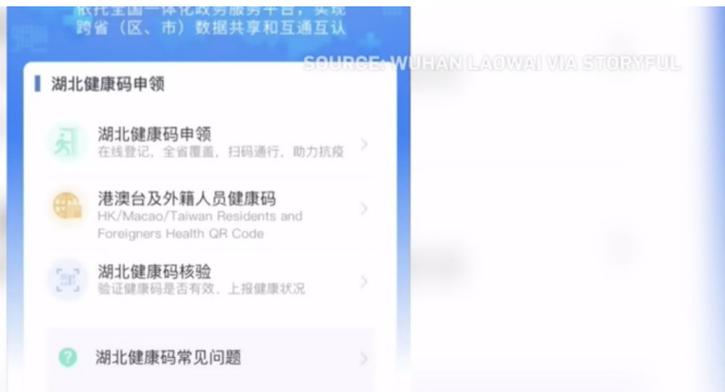
<https://apps.apple.com/ca/app/id1520284227>, iOS app v. 1.0.2, accessed 8/1/20

China

Chinese health code system

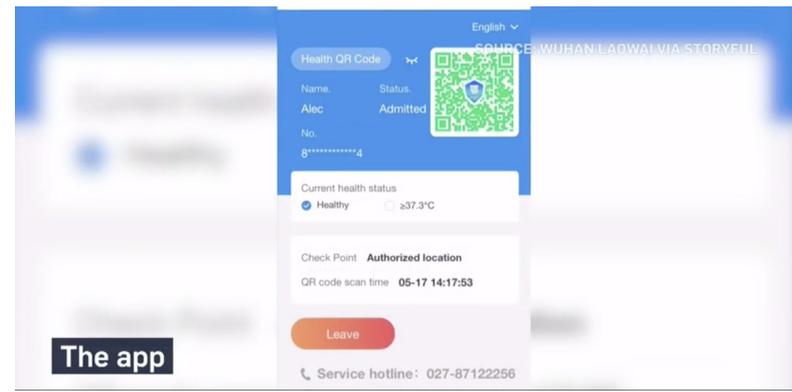


<https://mp.weixin.qq.com/s/amB7fBxLw8KSR9DcUsbTWg>

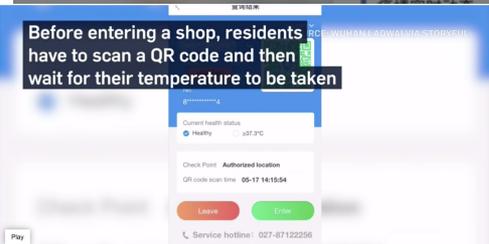


A contact-tracing app is being used in Wuhan, China, that can tell you whether you can or cannot enter a shop

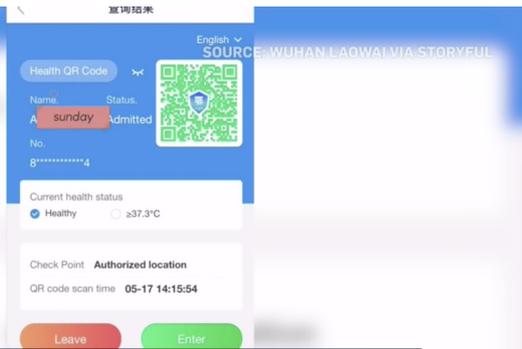
Fullscreen



Before entering a shop, residents have to scan a QR code and then wait for their temperature to be taken



<https://www.ctvnews.ca/health/coronavirus/see-china-s-covid-19-contact-tracing-system-in-action-1.4943352>



A person also scans a QR code when they leave the store to signify they are done there

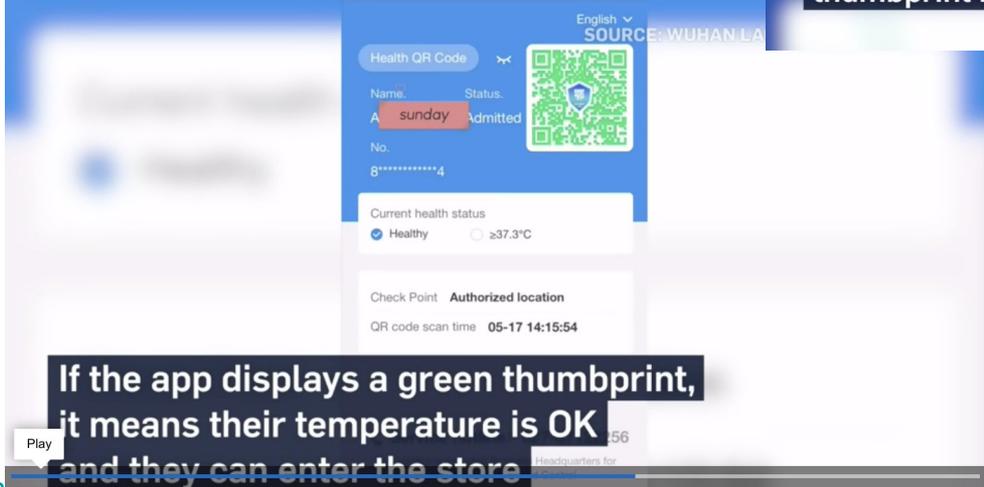
SOURCE: WUHAN LAOWAI VIA STORYFUL

港澳台及外籍人员 健康码

HK/Macao/Taiwan
Residents and Foreigners
Health QR Code

Anyone with a yellow thumbprint needs to self-quarantine at home while anyone with a red thumbprint must stay under supervised quarantine

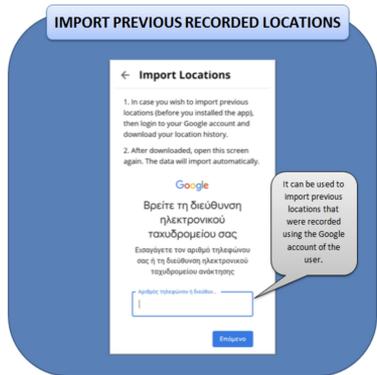
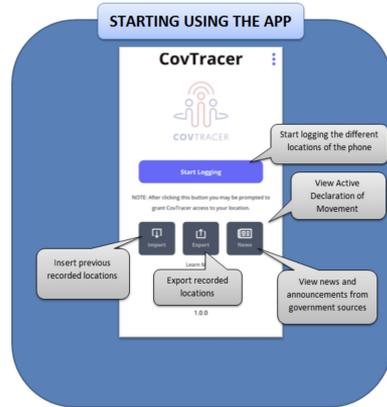
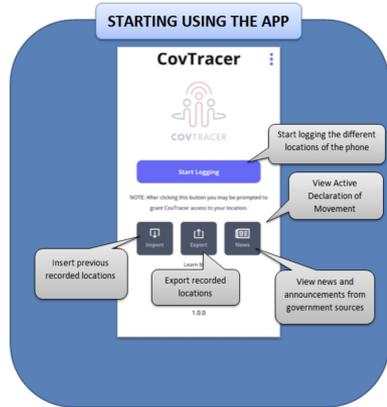
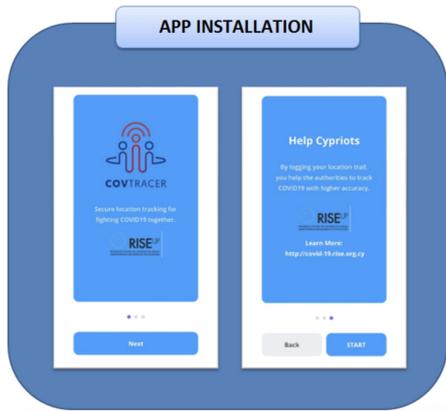
湖北健康通行证
Apply for the Hubei Health Pass



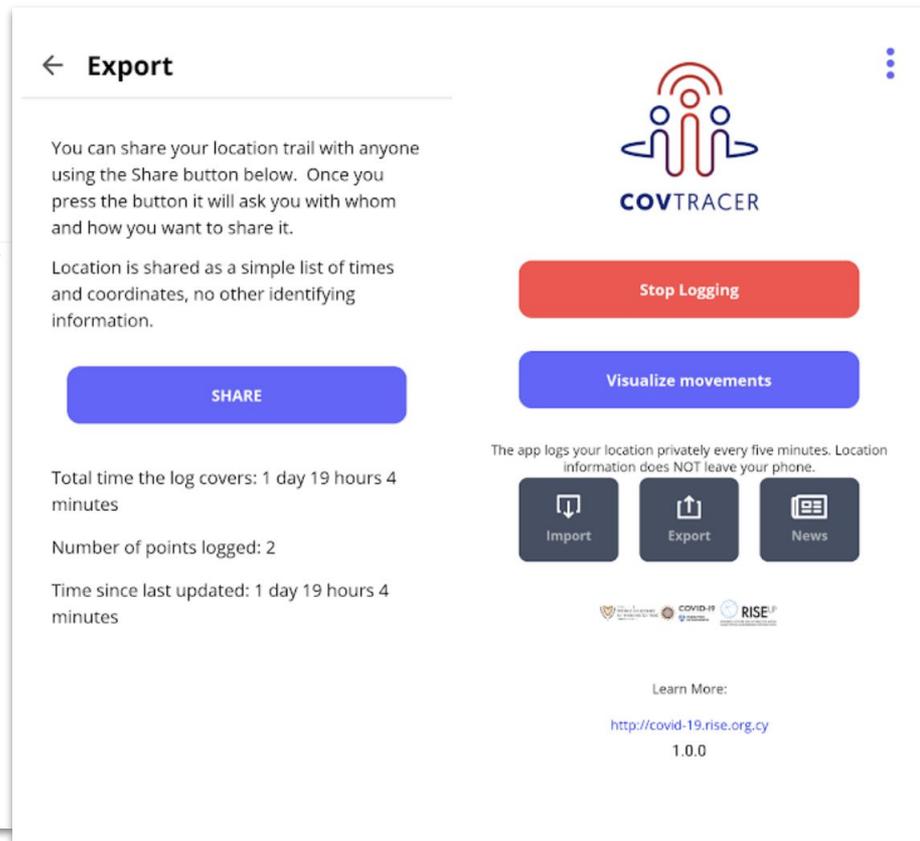
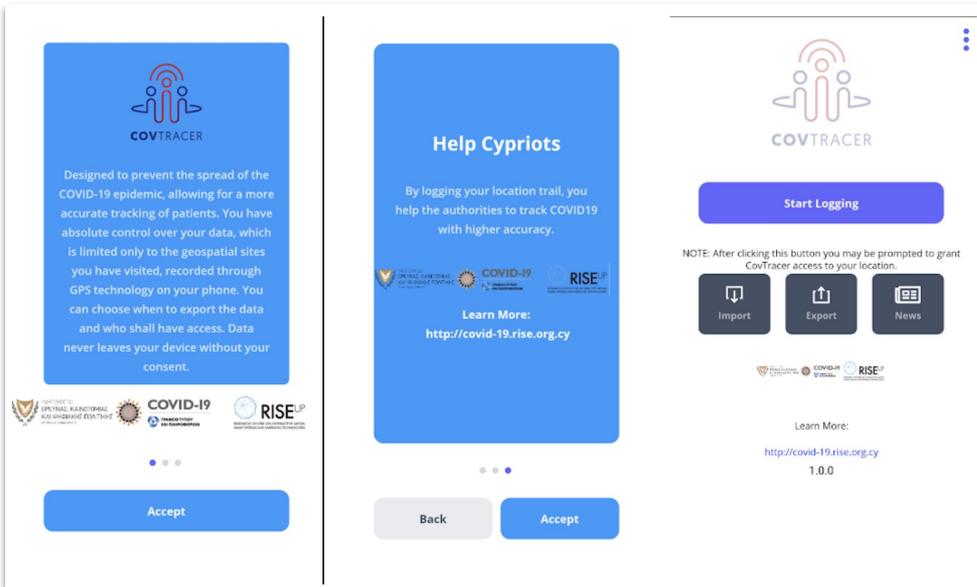
If the app displays a green thumbprint, it means their temperature is OK and they can enter the store

<https://www.ctvnews.ca/health/coronavirus/sec-china-s-covid-19-contact-tracing-system-in-action-1.4943352>

Cyprus CovTracer



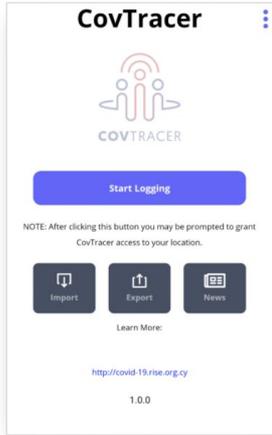
Government of the Republic of Cyprus CovTracer



<https://play.google.com/store/apps/details?id=edu.rise.ihnilatis>

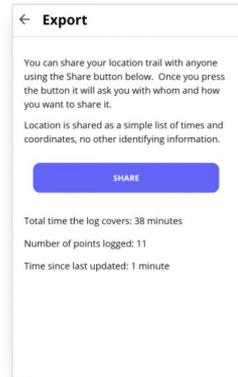
Phase 1:

The user starts recording his/her location via GPS. All information remains on the device, respecting his/her privacy:



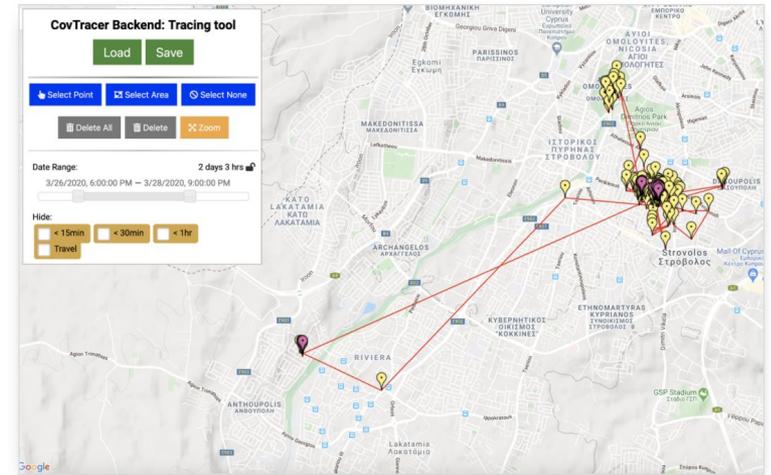
Phase 2:

Let's say for example that the user is diagnosed positive to COVID-19. If he/she wants, voluntarily, shares the geolocation data of the movements of his/her last two weeks with his/her epidemiologist:

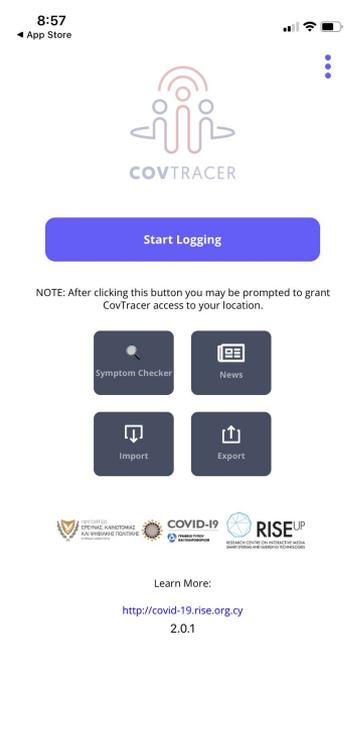
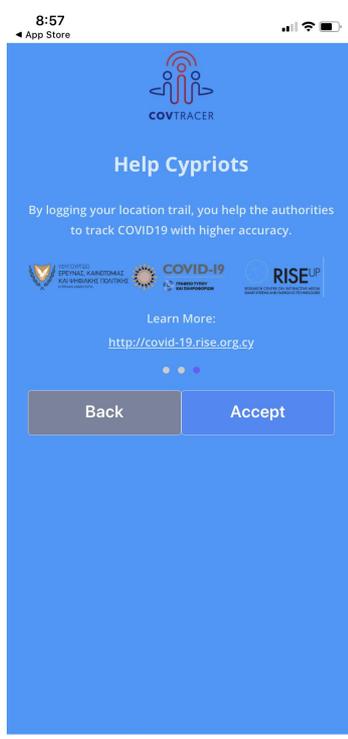
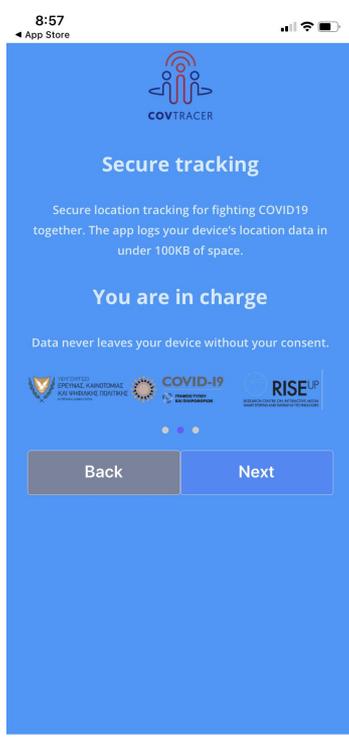
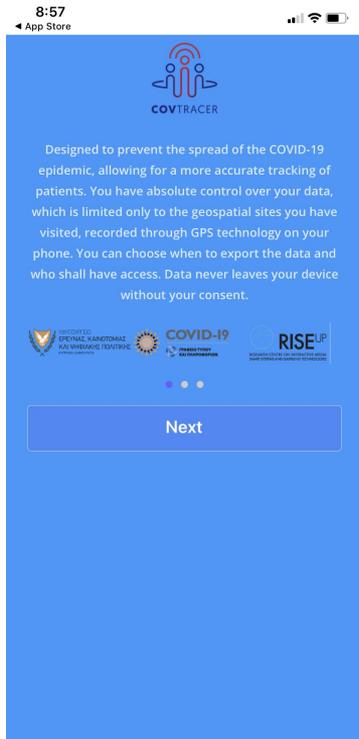


Phase 3:

The epidemiologist checks this information and takes action, e.g. to evacuate areas, perform cleaning or to inform people who were in close touch with the patient. If the patient wishes, the geo-locations of his/her movements become anonymous and public on the database of CovTracer. Information about the patient's home and any possible identification traces are removed:



Government of the Republic of Cyprus
CovTracer



iOS app screenshots version 2.0.1. Accessed 7/16/20

9:33



Start Logging

NOTE: After clicking this button you may be prompted to grant CovTracer access to your location.



Learn More:

<http://covid-19.rise.org.cy>
2.0.1



9:33

Symptom Checker

Demographics

Age *

Gender

Male
Female

Postal Code *

Back Next



9:33

Latest News

covid-19 ⓘ

A Twitter list by @deanton
A list of Cyprus related accounts for Covid-19

REACTION
@reactioncyprus
Αυξημένη τραχια κίνηση στους #αυτοκινητοδρόμους τόσο από Επ. Αμμοχώστου όσο και από Λεμεσό. Ακολουθήστε τις υποδείξεις @Cyprus_Police ΜΗΝ ΟΔΗΓΕΙΤΕ στην Λωρίδα Έκτακτης Ανάγκης. Εκτός από παράνομο, εμποδίζετε τα οχήματα έκτακτης ανάγκης να φτάσουν σε ένα τραχιο ή άλλο #BeSafe

9h

Γραφείο Τύπου και Πληροφοριών
@PTDcy

Ανακοίνωση του Υπουργείου Υγείας σχετικά με νέα περιστατικά της νόσου COVID-19 [ft.tt/2Z2Wg3](https://t.me/PTDcy3)

10h

KYΠE
@cynnewsagency

Κλειστός ο αυτοκινητόδρομος Λεμεσού – Λευκωσίας από ανατροπή φορτηγού zpr.io/H6CuM #KYΠE

10h

Cyprus News Agency
@cnaenglish

Cyprus authorities report no new COVID-19 cases on Sunday. out of 1,059 laboratory tests pr.in/HRCA1



iOS app screenshots version 2.0.1. Accessed 6/28/20

← Import locations

Adding location data from Google will give you a head start on building your recent locations.

Before you can import, you must first "Take out" your location data from Google.

Visit Google Takeout and export your Location History using the following settings:

1. Delivery method: "Add to Drive"
2. Frequency: "Export once"
3. File type & size: ".zip" and "1GB"
4. Google sends an email when the export is ready
5. Return here to import locations from Google Drive

[Visit Google Takeout](#)

And then

[Import locations](#)

← Export

You can share your location trail with anyone using the Share button below. Once you press the button it will ask you with whom and how you want to share it.

Location is shared as a simple list of times and coordinates, no other identifying information.

SHARE

Total time the log covers: No data

Number of points logged: 0

Time since last updated: No data



Start Logging

NOTE: After clicking this button you may be prompted to grant CovTracer access to your location.



Learn More:

<http://covid-19.rise.org.cy>

2.0.1

Czech
eRouska

I'm protecting myself, I'm protecting you!

Thanks to Bluetooth, the *eRouška* application remembers other *eRouška* you have met.
This will make it easier for the hygienic station to locate risky contacts.

Contribute to increasing the number of coronavirus infections.

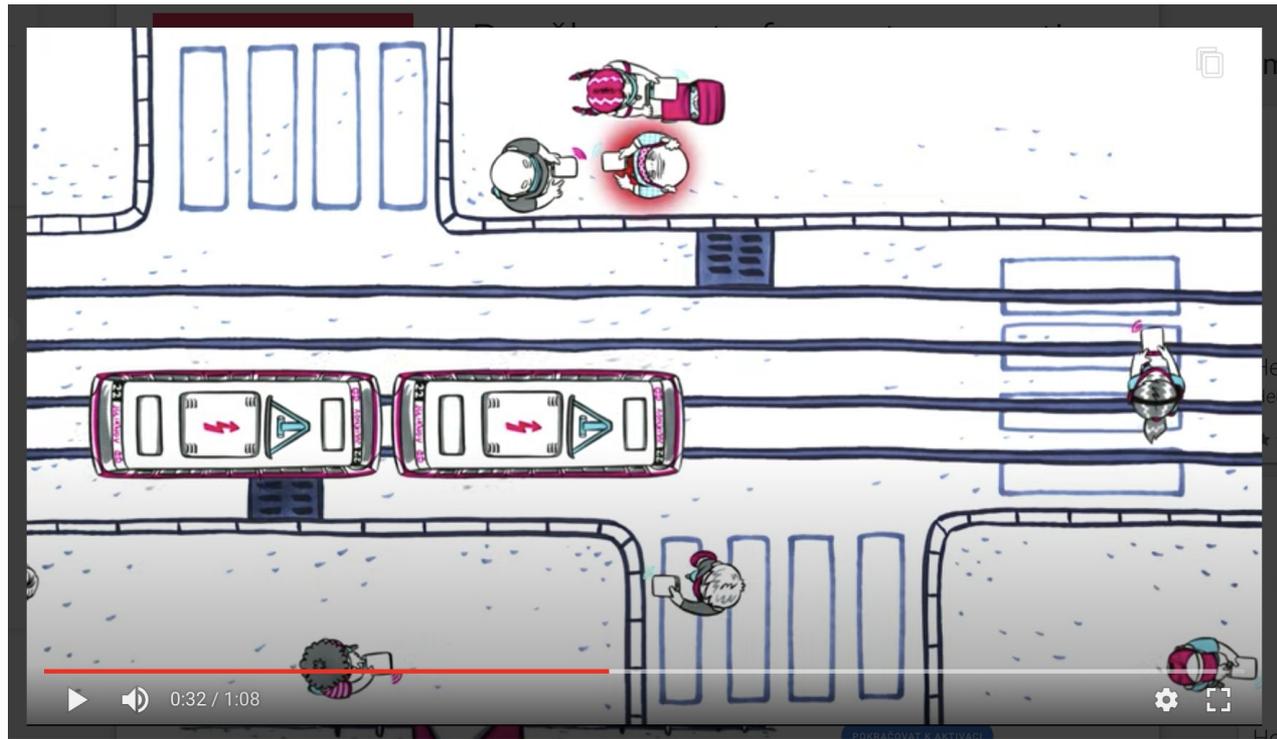
Download for Android

Download for iOS

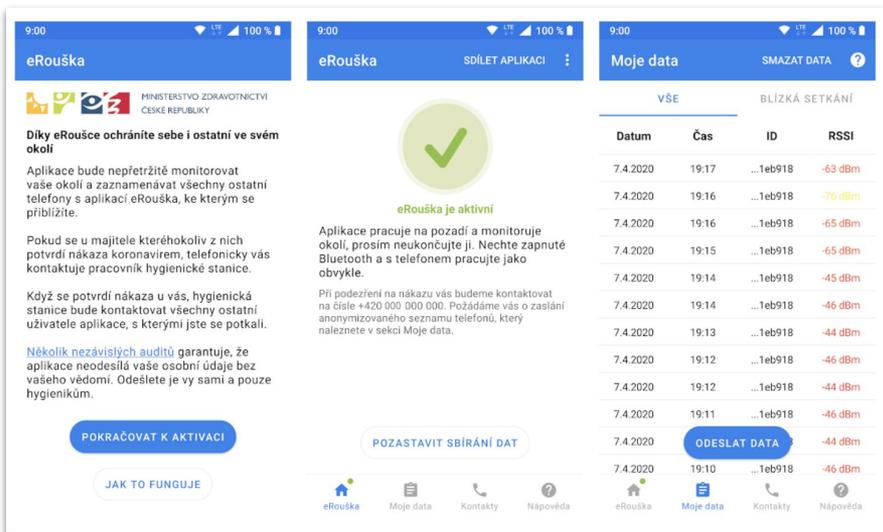
Anežka support
eRoušky



<https://erouska.cz/>

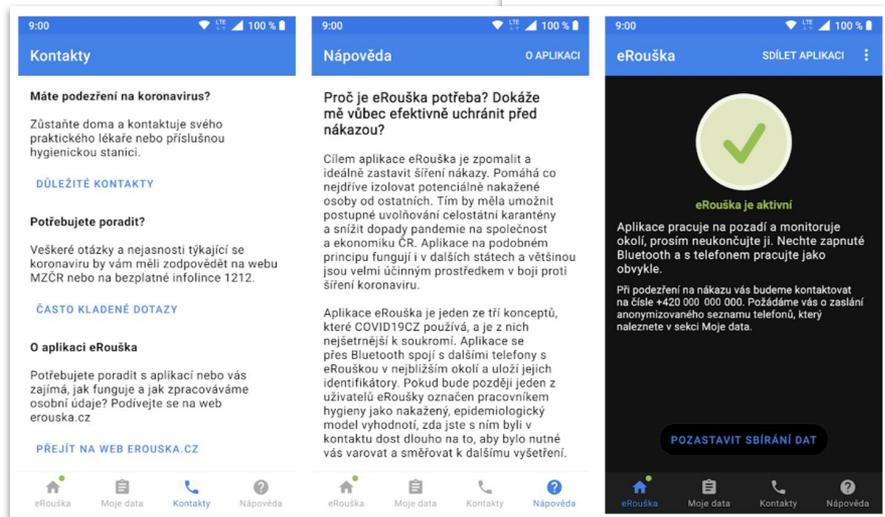
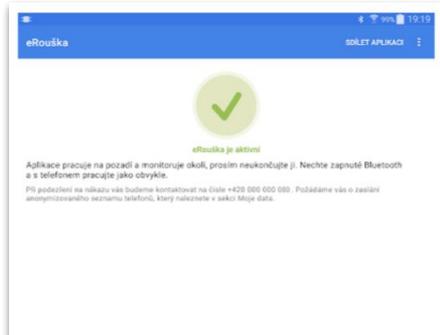


Visualizations of how the app works



Erouška is active. The application works in the background and monitors the environment, please do not quit it. Leave Bluetooth turned on and work with your phone as usual. Pause Data Collection.

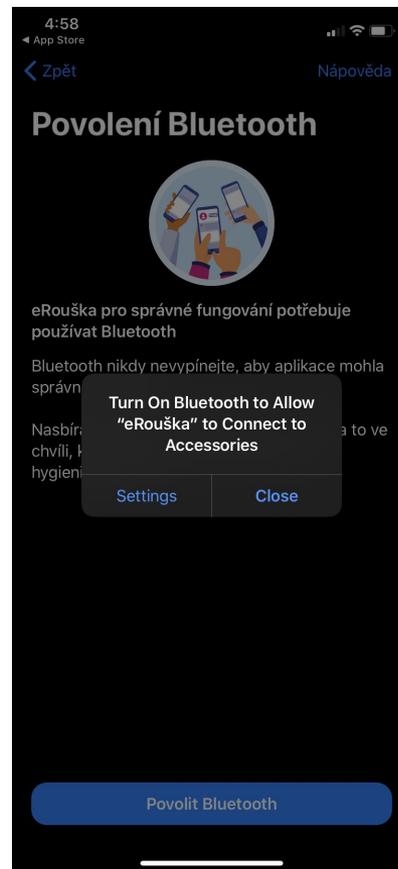
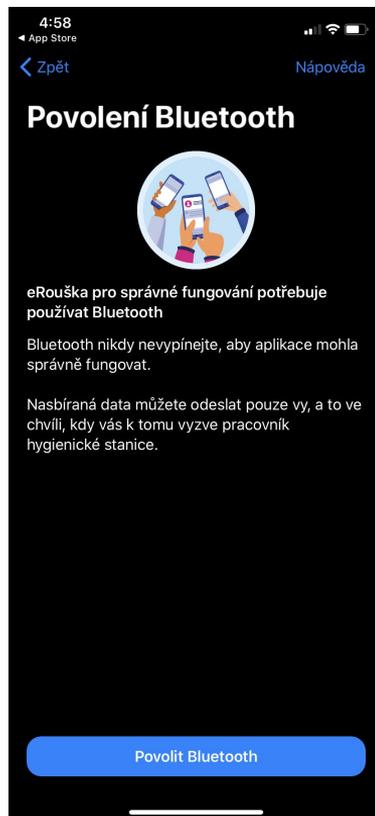
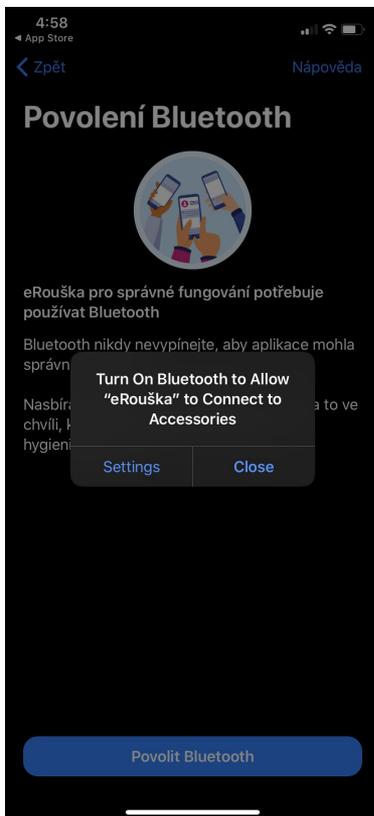
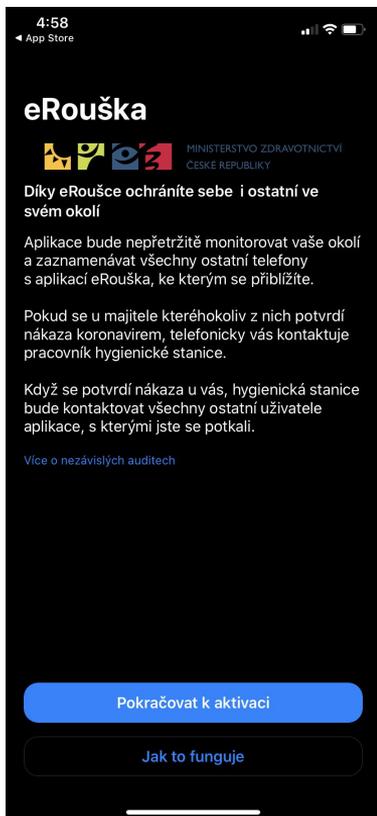
<https://play.google.com/store/apps/details?id=cz.covid19cz.erouska>



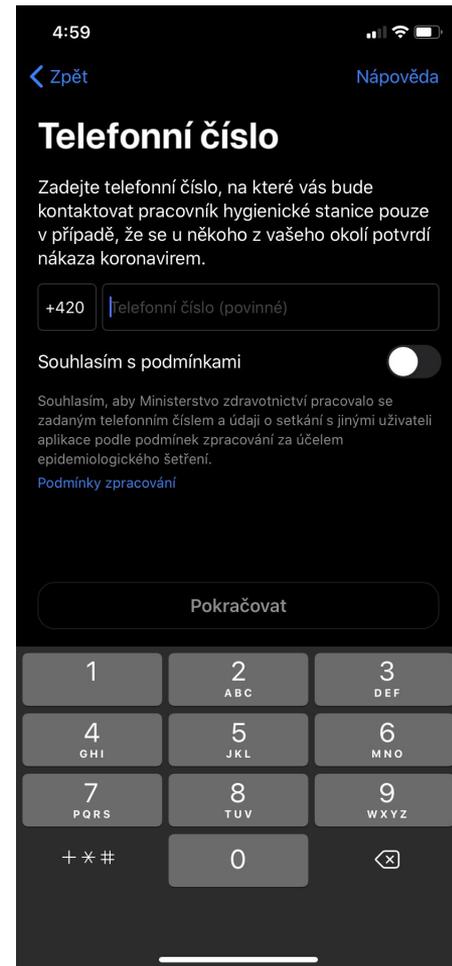
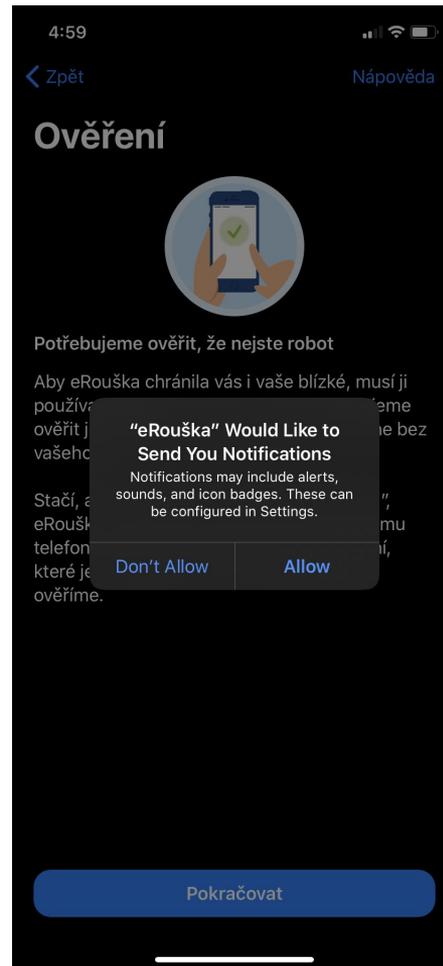
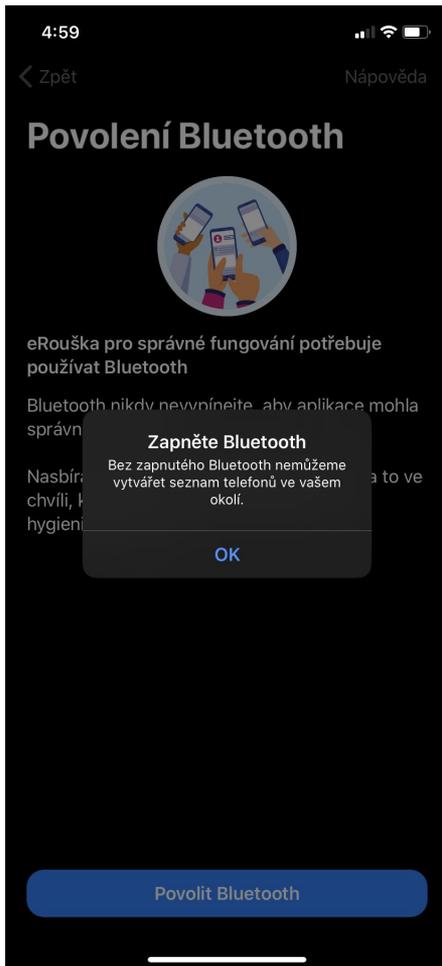
Proč je eRouška potřeba? Dokáže mě vůbec efektivně uchránit před nákazou?

Cílem aplikace eRouška je zpomalit a ideálně zastavit šíření nákazy. Pomáhá co nejdříve izolovat potenciálně nakažené osoby od ostatních. Tím by měla umožnit postupné uvolňování celostátní karantény a snížit dopady pandemie na společnost a ekonomiku ČR. Aplikace na podobném principu fungují i v dalších státech a většinou jsou velmi účinným prostředkem v boji proti šíření koronaviru.

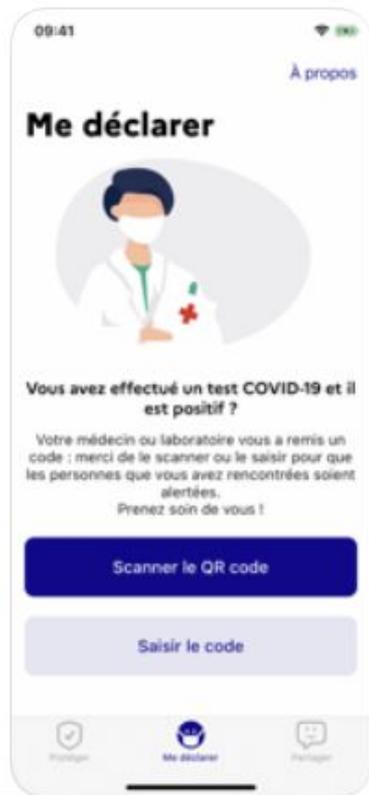
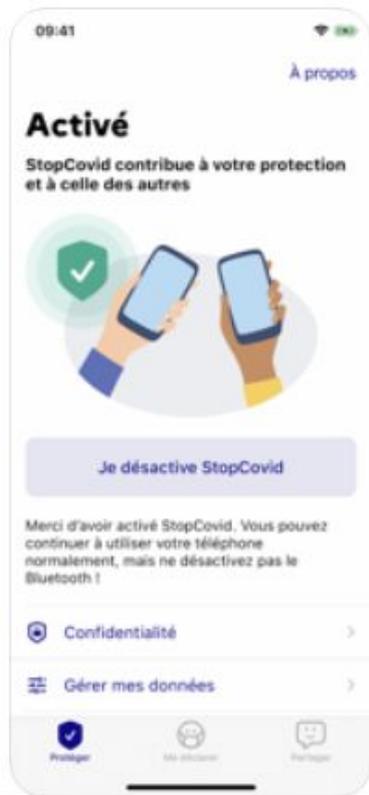
Aplikace eRouška je jeden ze tří konceptů, které COVID19CZ používá, a je z nich nejšetnější k soukromí. Aplikace se přes Bluetooth spojí s dalšími telefony s eRouškou v nejbližším okolí a uloží jejich identifikátory. Pokud bude později jeden z uživatelů eRoušky označen pracovníkem hygieny jako nakažený, epidemiologický model vyhodnotí, zda jste s ním byli v kontaktu dost dlouho na to, aby bylo nutné vás varovat a směřovat k dalšímu vyšetření.



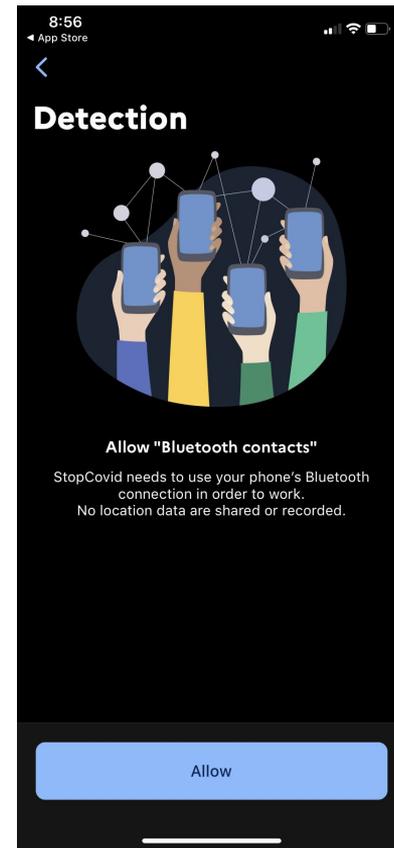
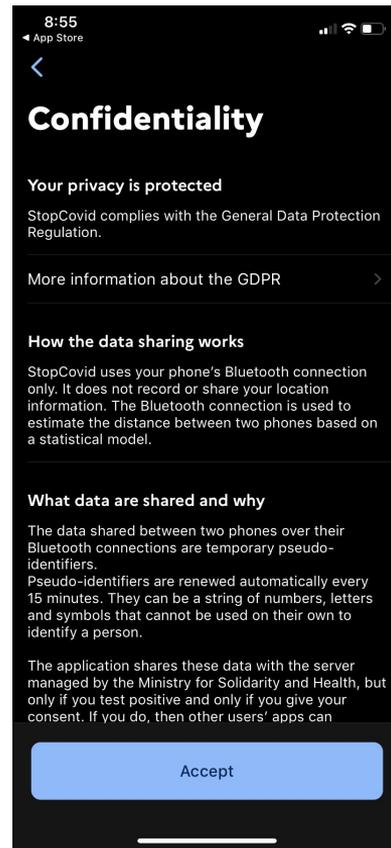
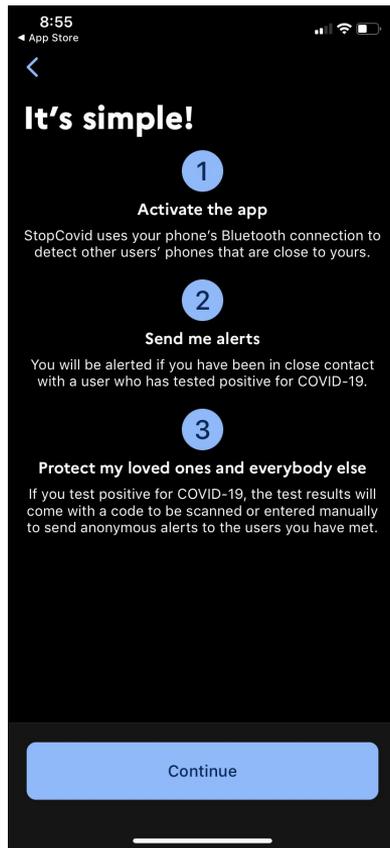
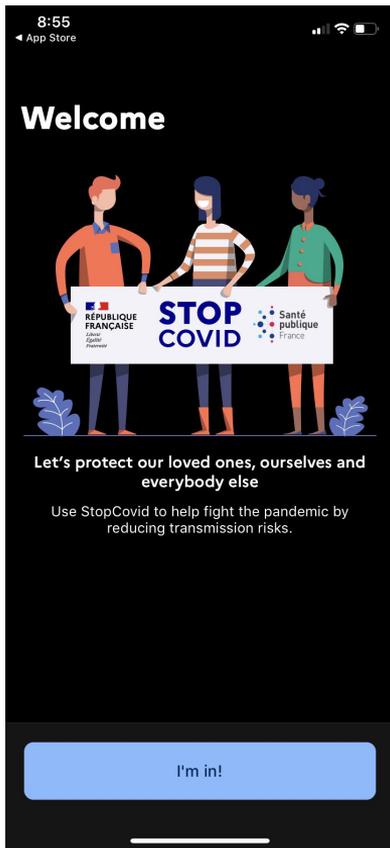
iOS app, version: 1.1, accessed July 02, 2020



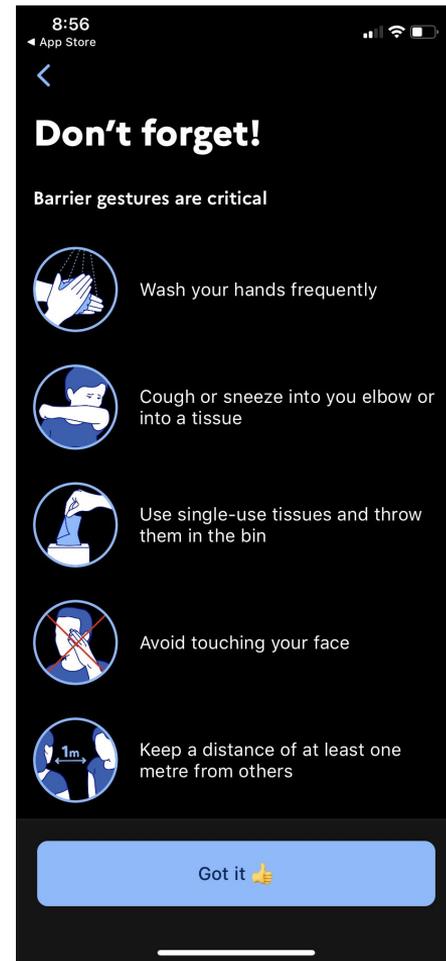
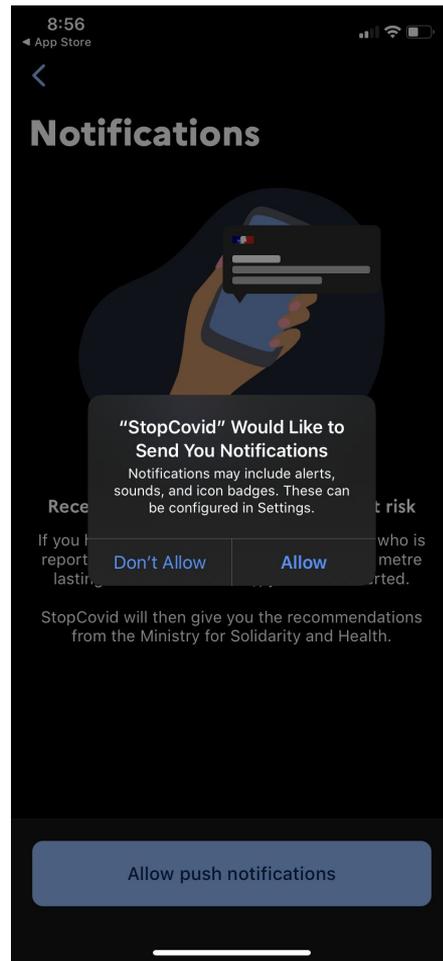
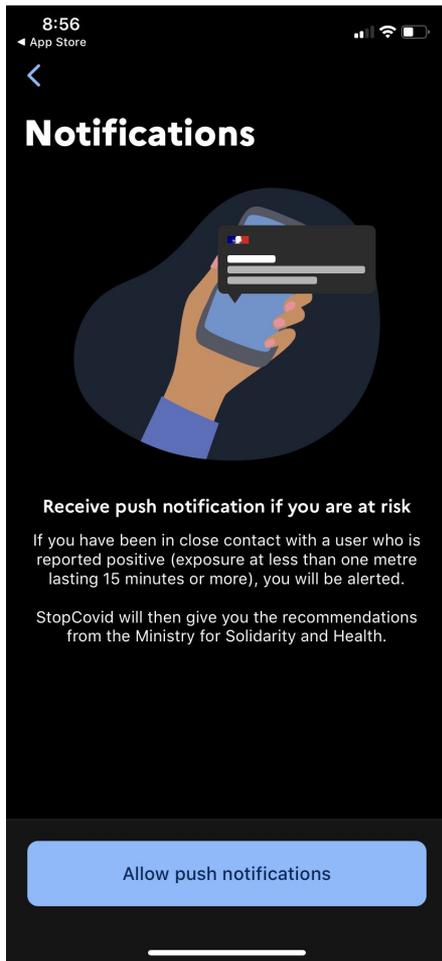
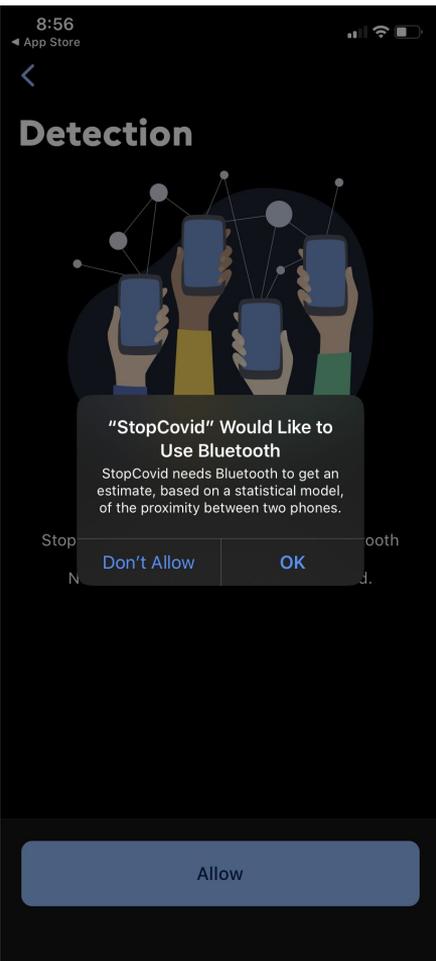
France
StopCovid

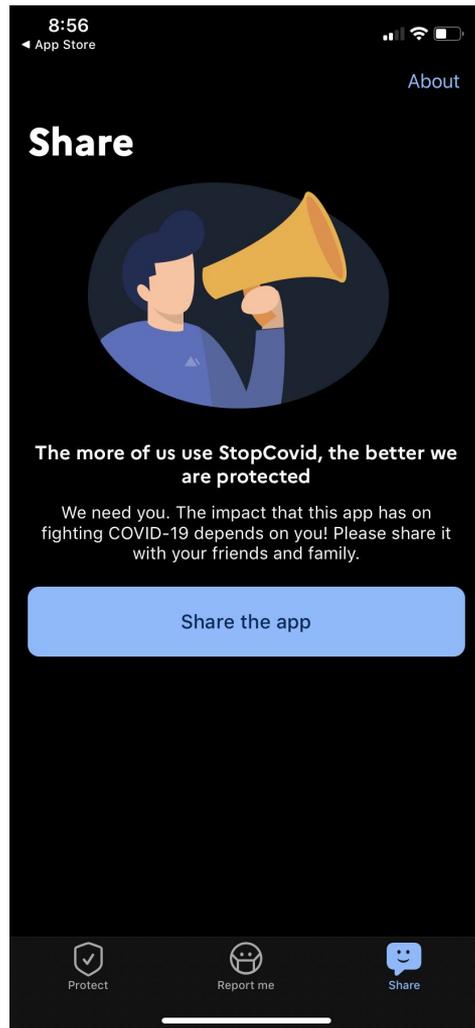
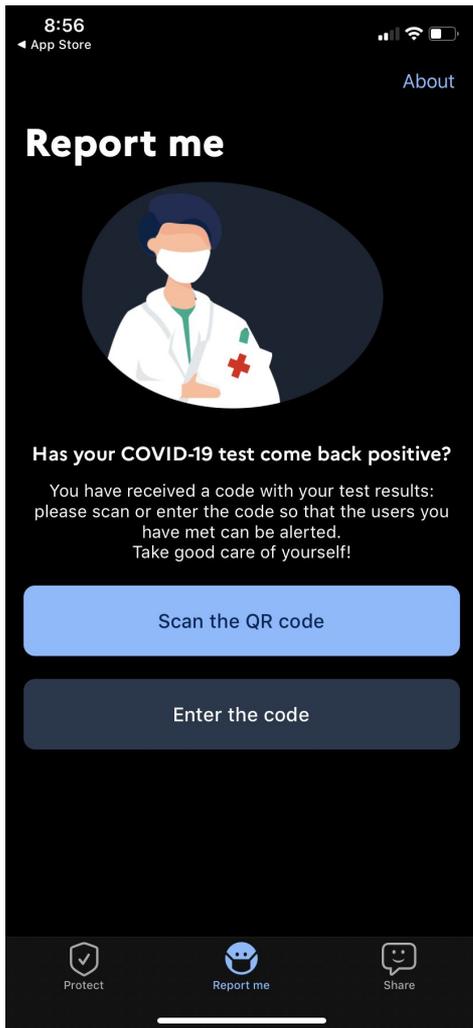


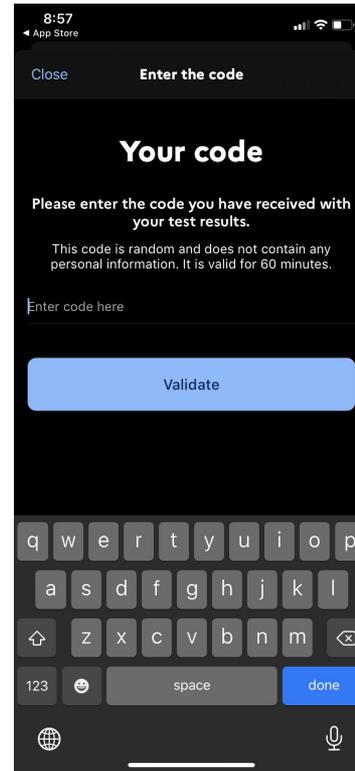
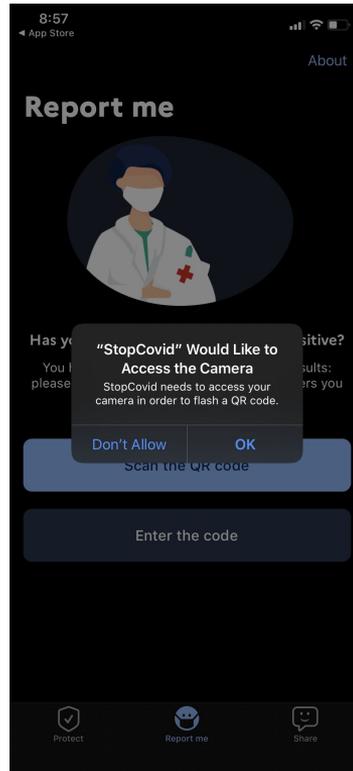
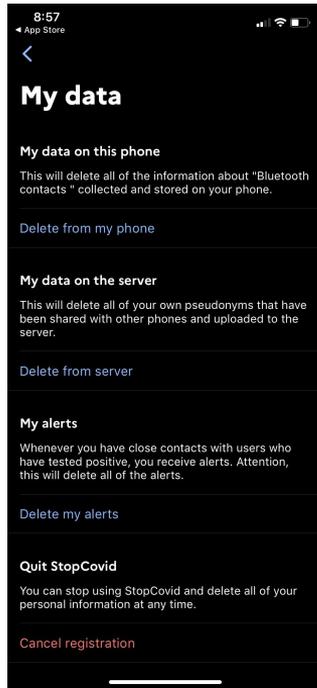
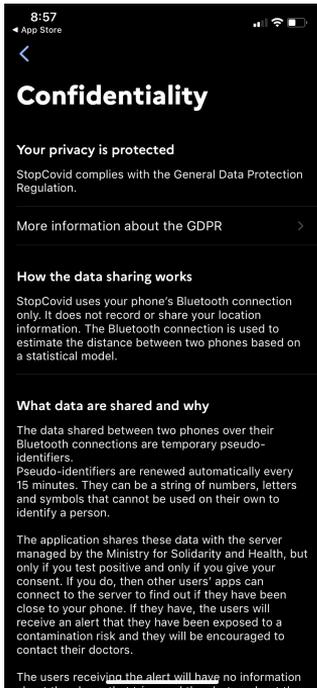
<https://apps.apple.com/app/id1511279125>



App iOS version 1.1.1., accessed July 02, 2020







Germany

Corona Warn App



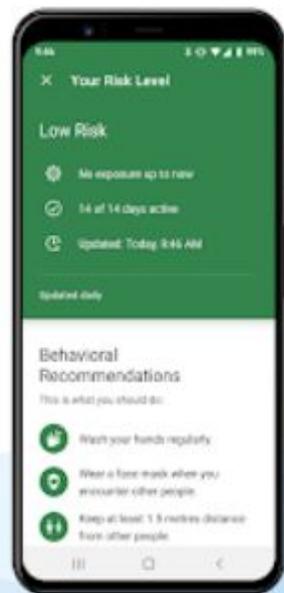
Protect yourself and
protect us all

Check whether you had
encounters with infected
persons

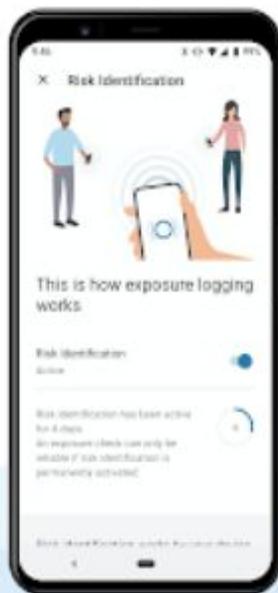


<https://play.google.com/store/apps/details?id=de.rki.coronawarnapp>

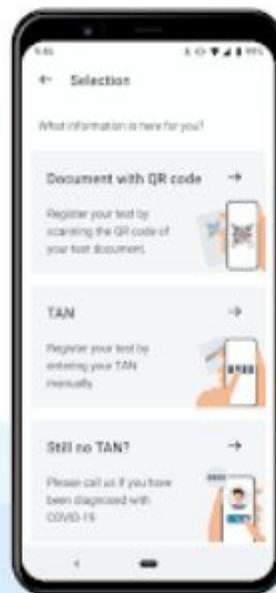
Learn how to act correctly
in every situation



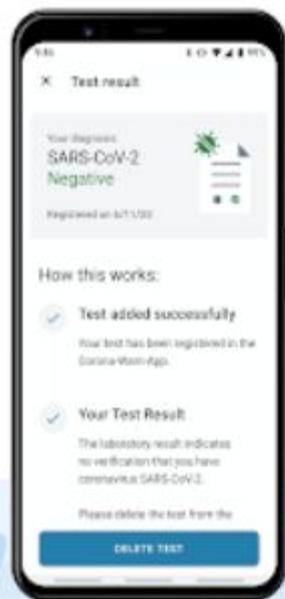
The app records your
encounters – but no
personal data



Users register their coronavirus
tests anonymously
and warn others



Easily request your test result via the app



Share the app with family and friends



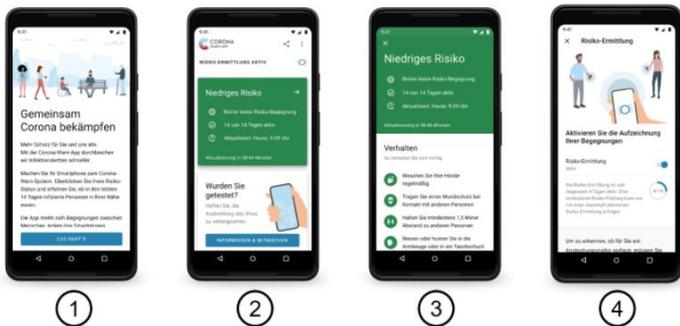


Figure 1: UI Screens for Google Android (high-resolution images)

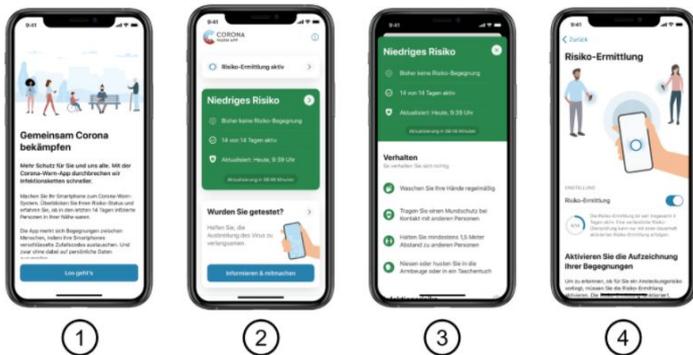


Figure 2: UI Screens for Apple iOS (high-resolution images)

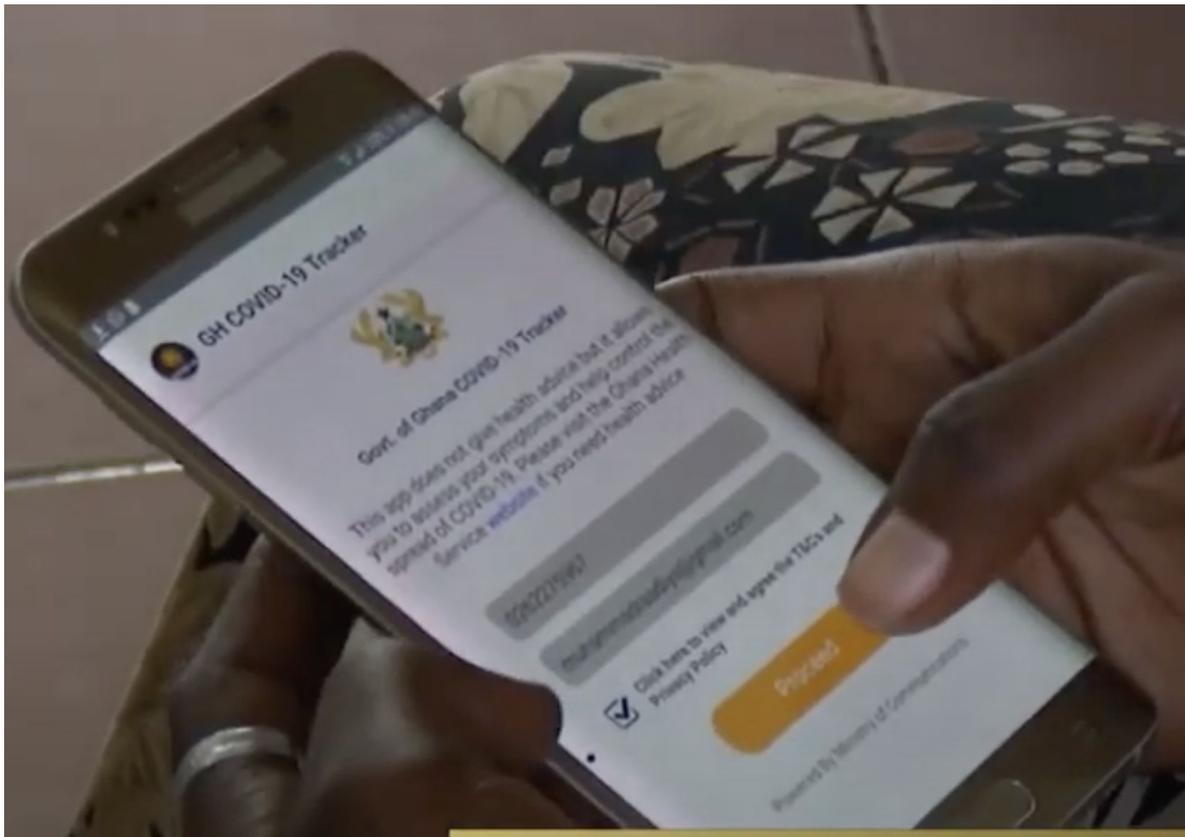
Screen Descriptions

1. This is the first screen (Android, iOS) that a user sees when launching the app for the first time. It describes the purpose of the app and is only displayed once after the very first app start.
2. The home screen (Android, iOS) is the entry point to the app for further starts. It provides the user with the current risk status. In case of a positive test, it offers the opportunity to submit the diagnosis keys to the server with a QR code or a TeleTAN. Further, it allows the sharing of the app with others, offers additional information, as well as the app setting button.
3. The detailed view (Android, iOS) of the risk level repeats the information displayed on the home screen. It provides the user with behavioral recommendations in line with his current infection risk. Moreover, it explains how the infection risk was determined.
4. The settings of the risk calculation screen (Android, iOS) can be accessed via the home screen as well as via the application settings. It explains the risk calculation and allows users to control it. In case of a significant malfunction of the risk calculation (e.g. the deactivation of Bluetooth) the user will be informed and provided with a solution.

https://github.com/corona-warn-app/cwa-documentation/blob/master/ui_screens.md

Ghana

GH COVID-19 Tracker



<https://ghcovid19.com/>

<https://www.youtube.com/watch?v=EiJIO45Vya0>

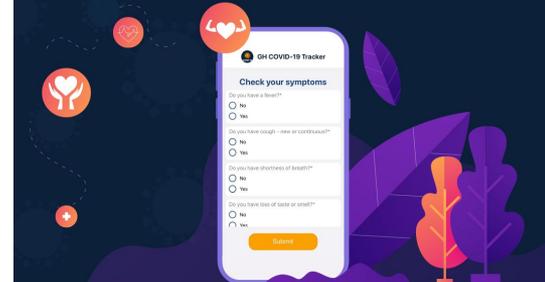


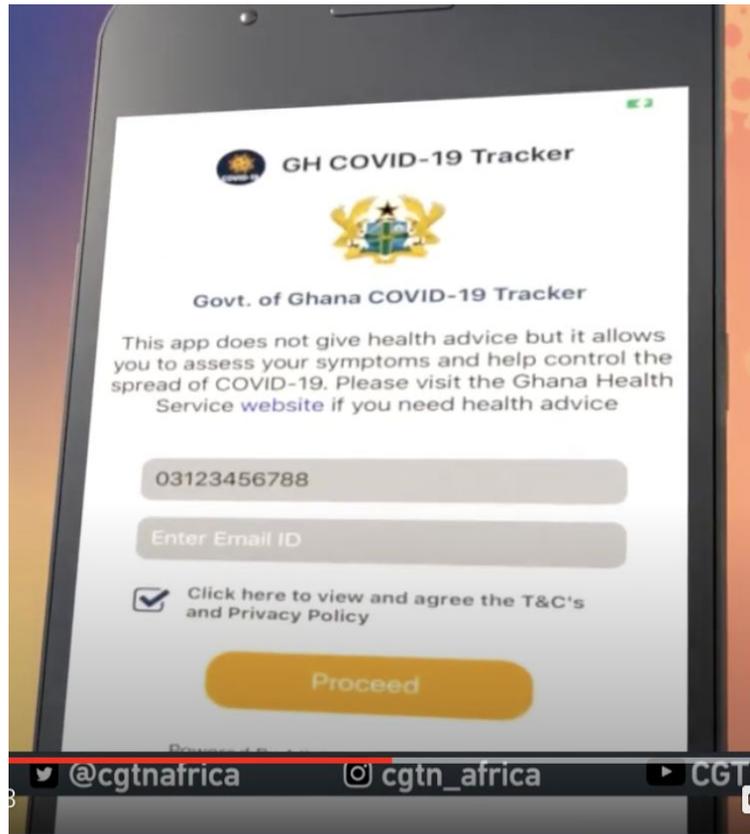
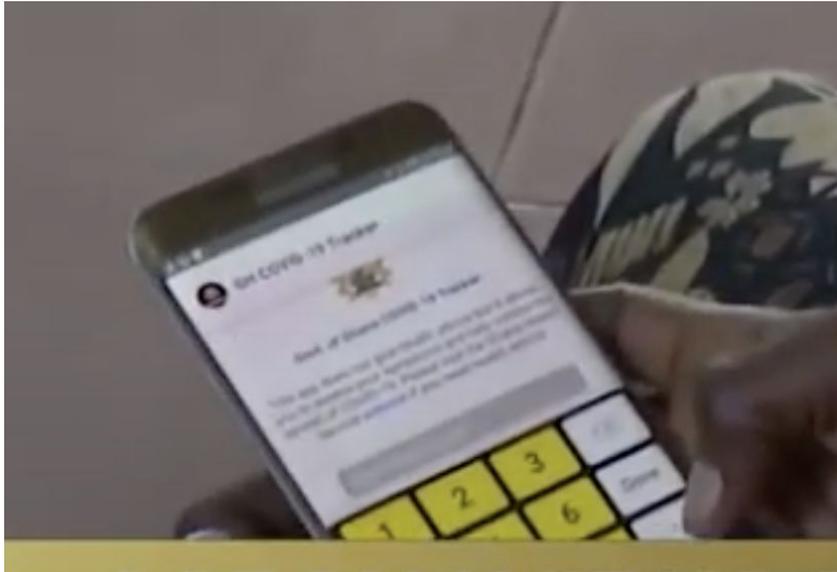
COVID-19

Government of Ghana

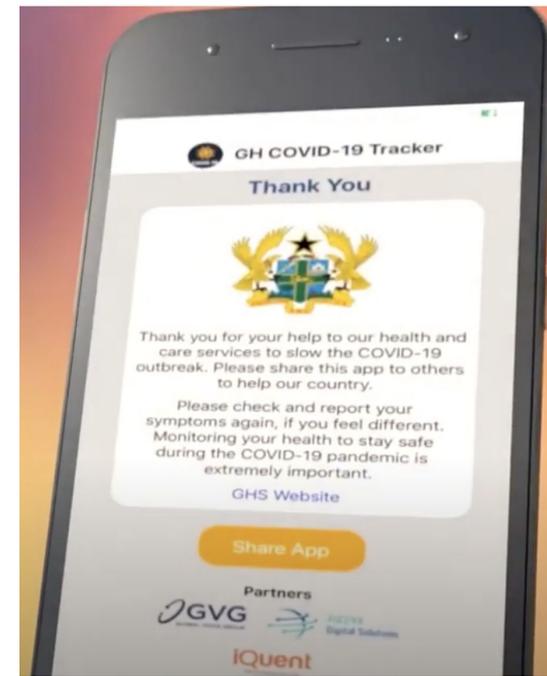
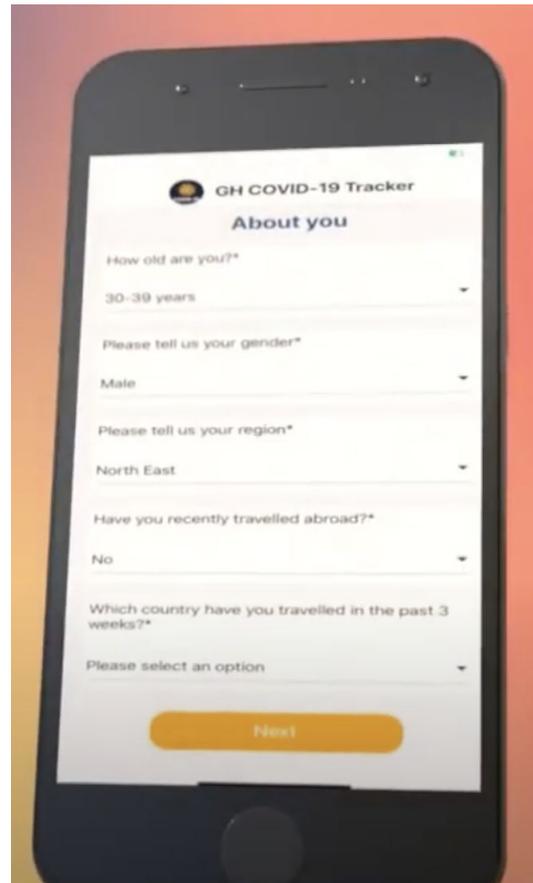
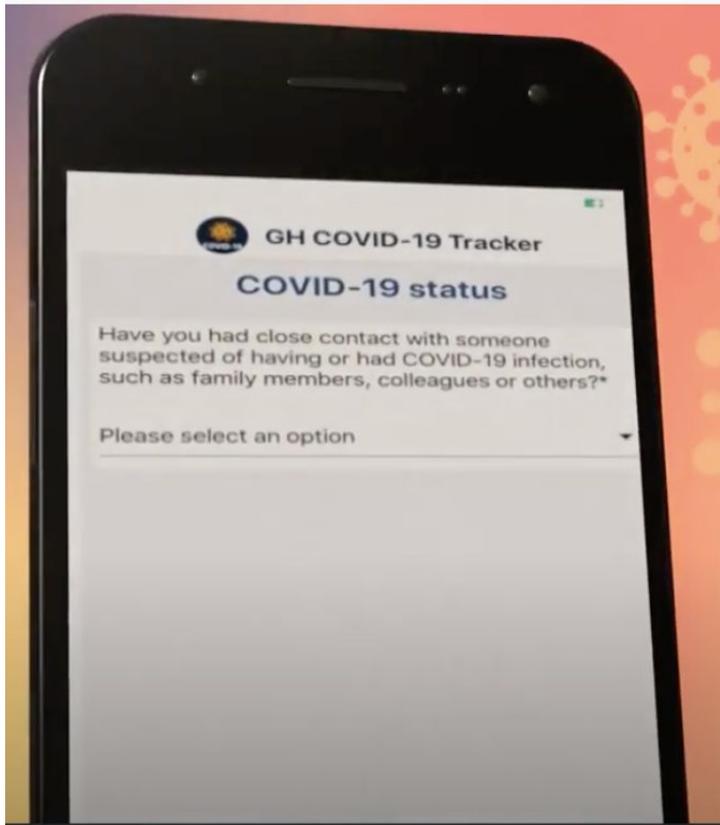
GH COVID-19 Tracker

Easy to use, digital tool to help you assess and self-report your symptoms for COVID-19

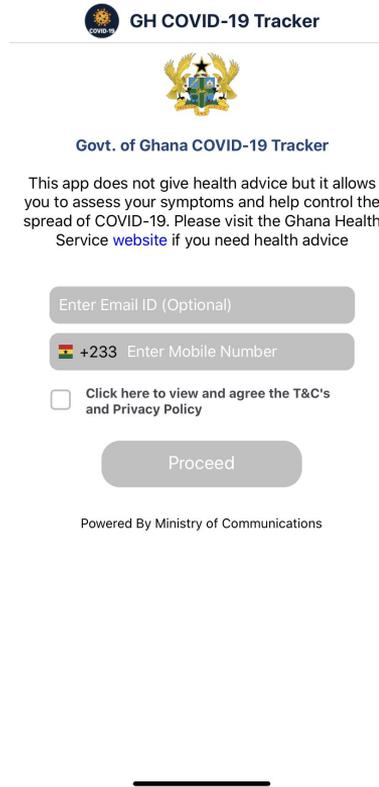
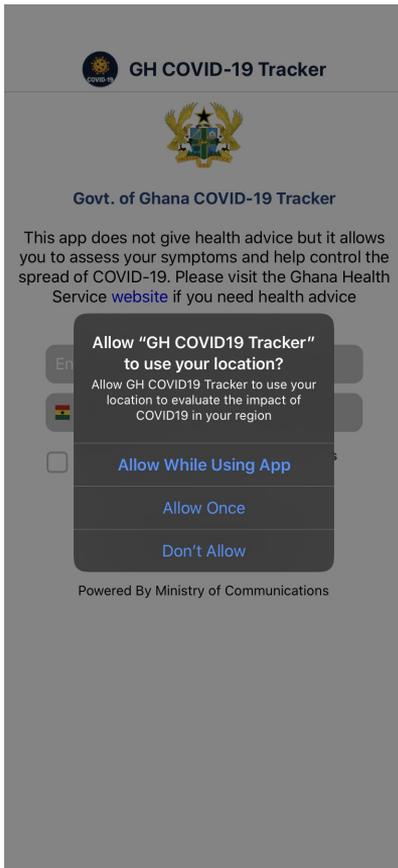




<https://www.youtube.com/watch?v=EiJIO45Vya0>



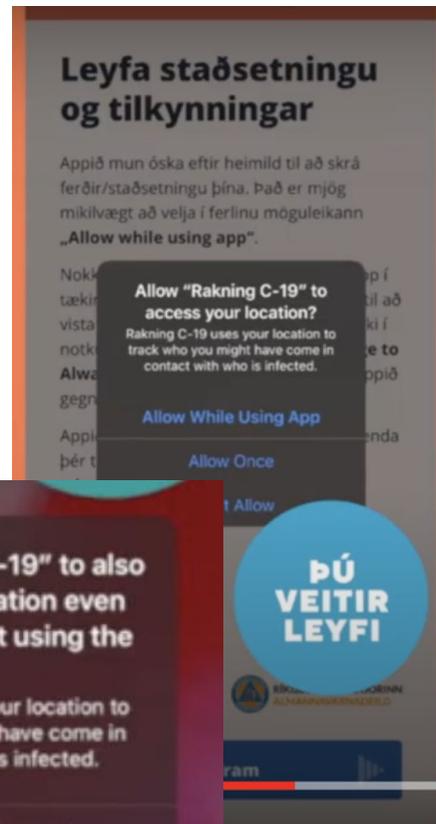
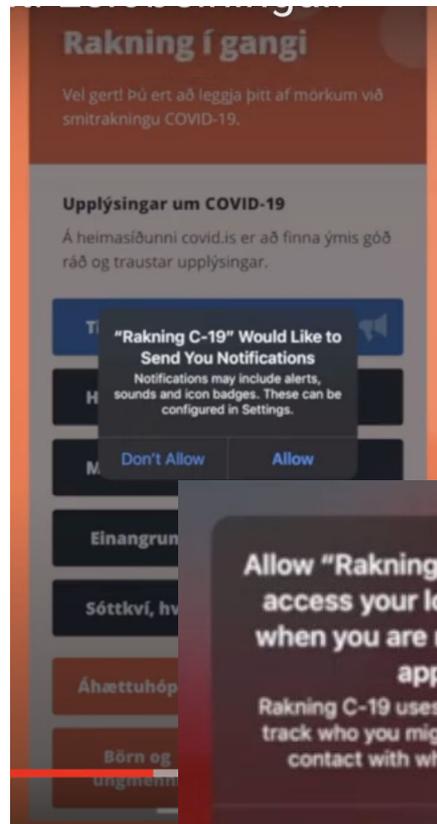
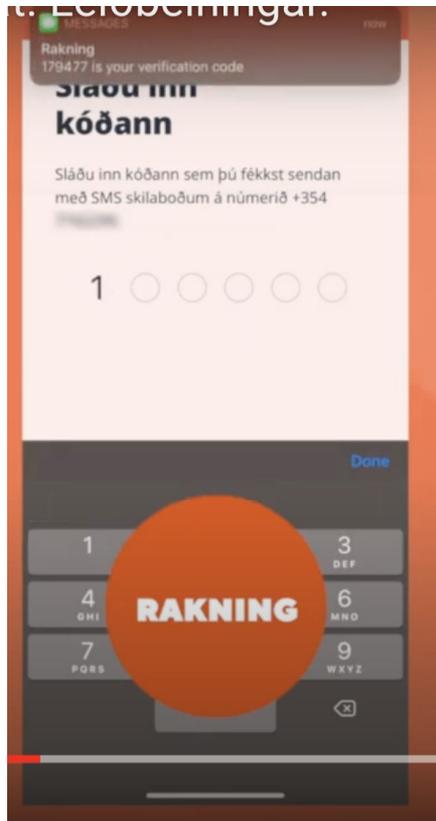
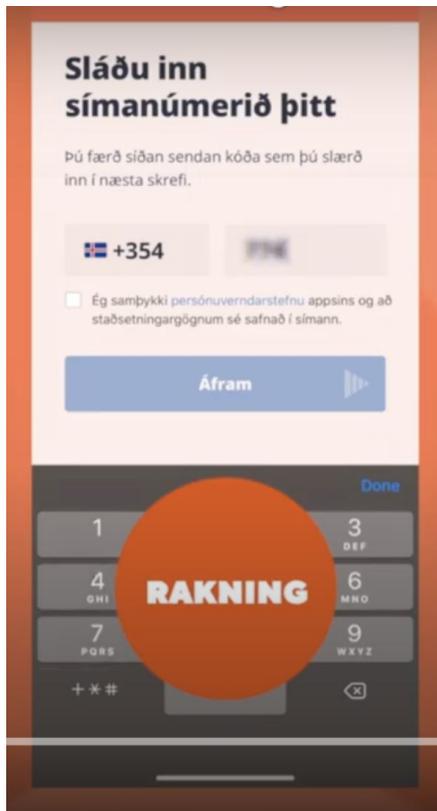
<https://www.youtube.com/watch?v=EiJIO45Vya0>



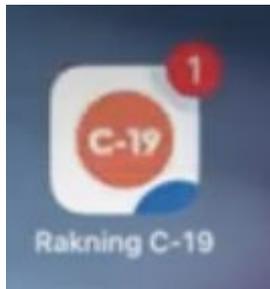
iOS app version 1.0.3 (last on Google Play), Accessed July 02, 2020

Iceland

Rakning C-19

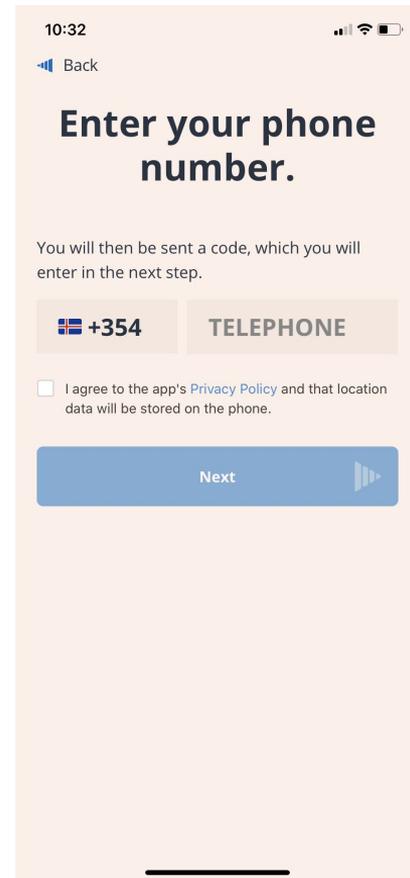
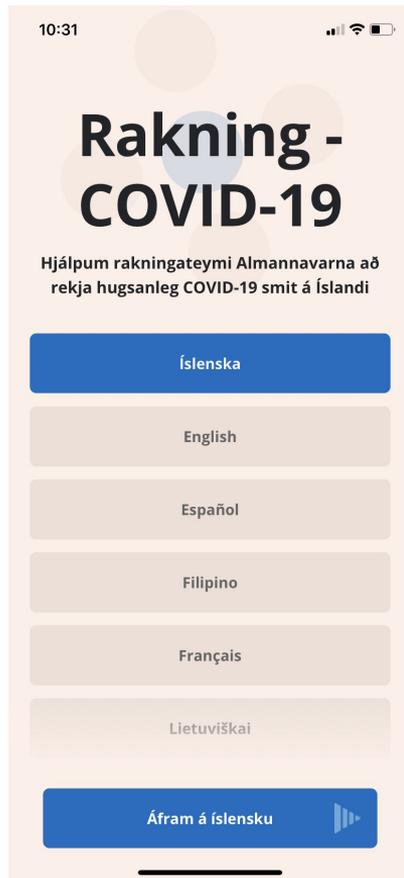


Iceland - Authentication, Location, Notifications





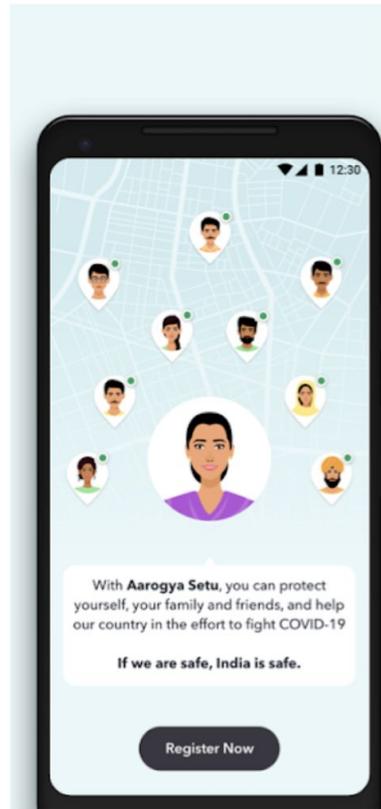
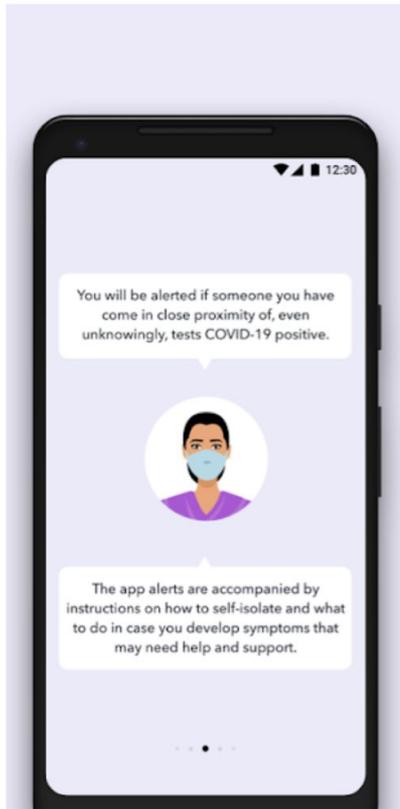
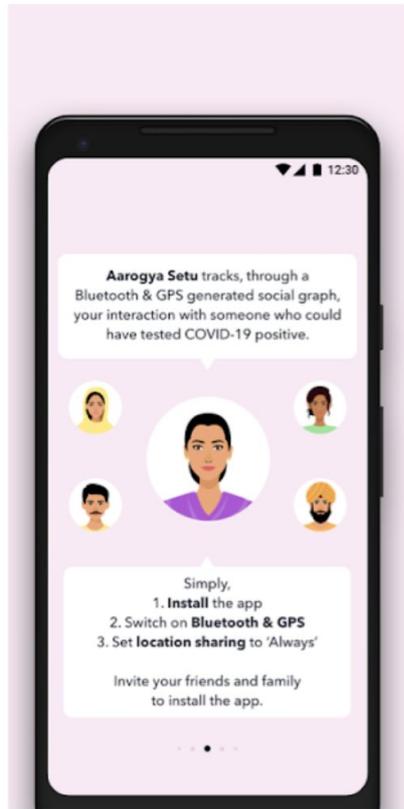
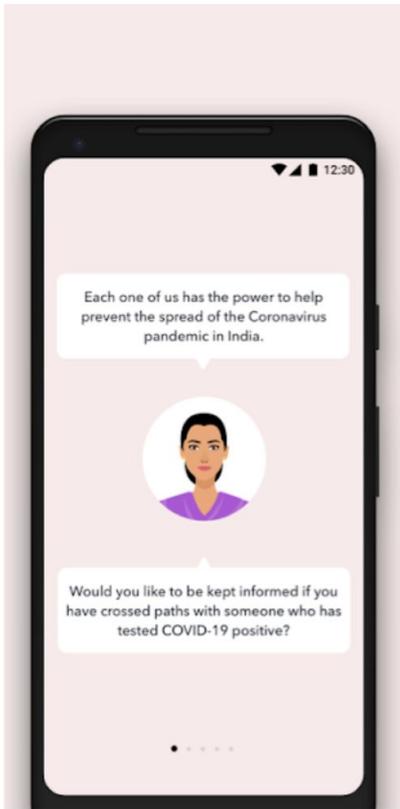
<https://play.google.com/store/apps/details?id=is.landlaeknir.ra>



iOS app version 2.0.0, accessed July 02, 2020

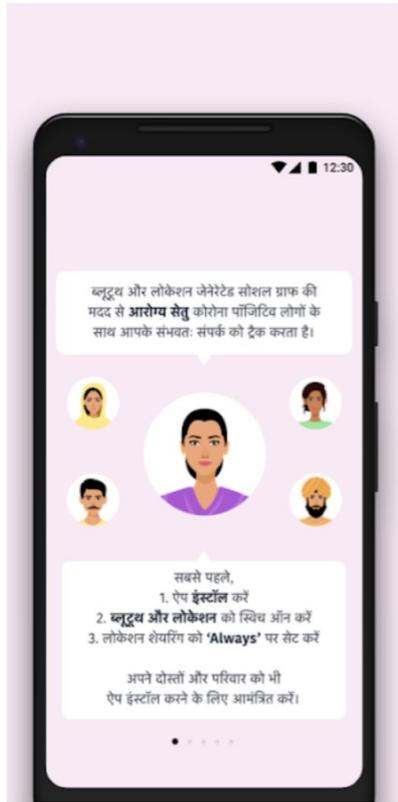
India

Aarogya Setu



Screenshots in english

<https://play.google.com/store/apps/details?id=nic.goi.aarogyasetu>



<https://play.google.com/store/apps/details?id=nic.goi.aarogyasetu>

Open Aarogya Setu app on your smartphone



Now, choose the desired language and tab Next

The app supports 11 languages-- English, Hindi, Gujarati, Marathi, Punjabi, etc.



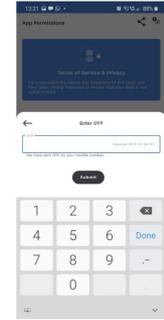
Now, tap on the Register Now button at the last slide of the information page



4. Allow all the necessary permissions

As already mentioned, the app uses Bluetooth and location data to work, need to provide access to these services.

5. At the next screen, enter your phone number, tap Submit.



6. Enter OTP manually or wait for the app to detect automatically

7. Now, the app will ask for some necessary details such as name, age, sex, profession and your travel history in the last 30 days. Tap Submit
Users can also volunteer in the time of need by checking the box at the Personal details page.

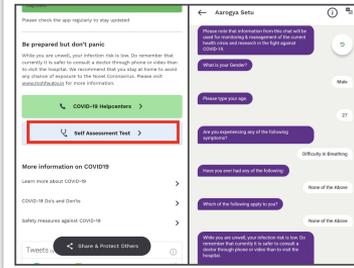


8. After this, the app will redirect to the homepage of the app, where it will show the level of risk you have, So, if it is marked in Green with a text saying 'You are Safe' then there's nothing to worry about.



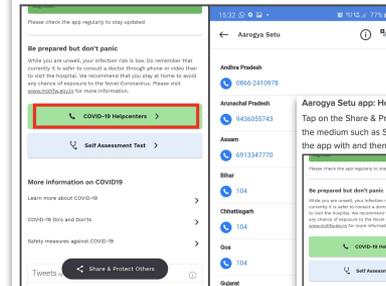
Aarogya Setu app: How to use Self Assessment Test

To use this feature, tap on the option and then the app will open a chat window where it asks some questionnaire related to the user's current health and symptoms such as Gender, Age, Are you experiencing any of the following symptoms, etc.



Aarogya Setu app: How to access Covid-19 Help Center details

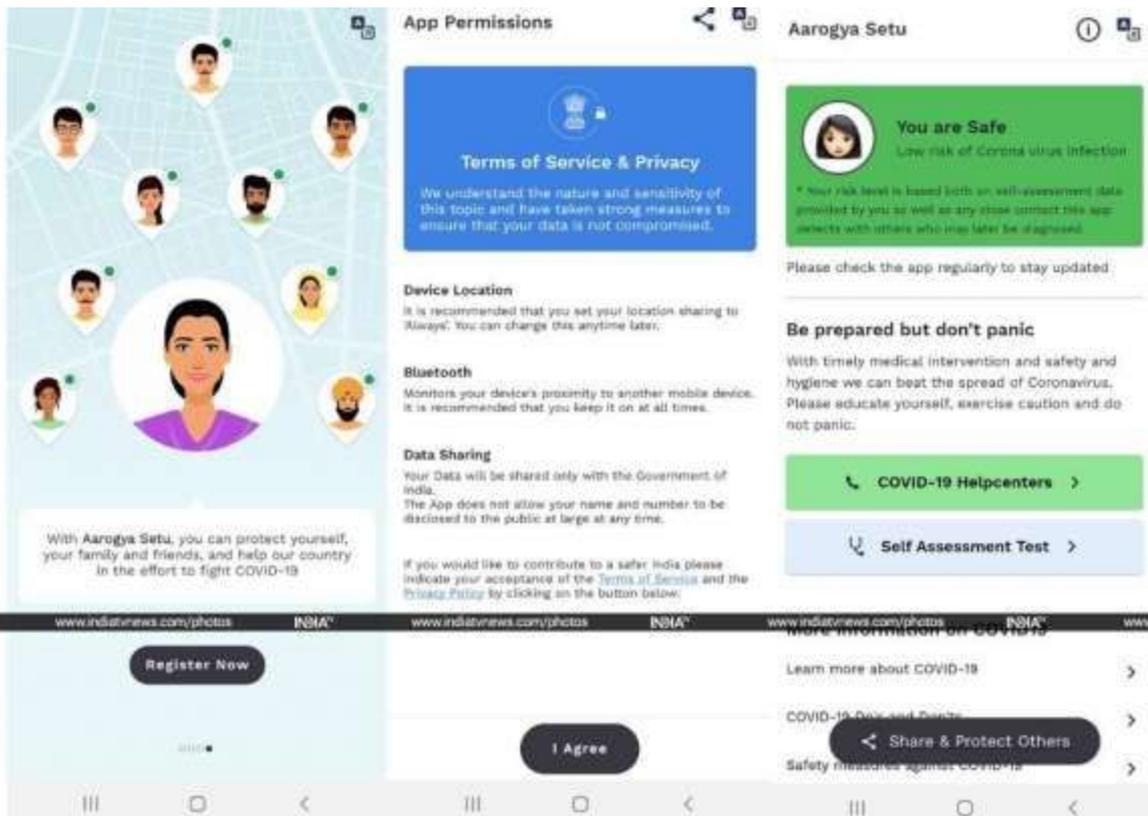
Tap on the Covid-19 Helpcenters button and scroll down to location once in your city.



Aarogya Setu app: How to share the app so that others can install the app
Tap on the Share & Protect Others button from the bottom of the app, choose the medium such as SMS, WhatsApp, then choose the contact you want to share the app with and then send the message.



<https://www.gadgetsnow.com/how-to/how-to-use-governments-official-coronavirus-tracking-app-aarogya-setu/articleshow/74965369.cms>



https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.indiatvnews.com%2Ftechnology%2Fnews-aarogya-setu-mobile-ap-p-how-to-use-aarogya-setu-where-to-download-android-ios-app-coronavirus-covid-19-tracking-by-government-605469&psig=AOvVaw3EfBzk5UX_Fr3wmOtBnHkj&ust=1591572850304000&source=images&cd=vfe&ved=0CAIQjRxqFwoTClizYWt7ukCFQAAAAdAAAAABAH



Govt Launches 'Aarogya Setu App'

a Bluetooth-based  COVID-19 Tracker



The app will **alert users if they come in proximity** to an infected person



Inform users about best practices & **relevant medical advisories**

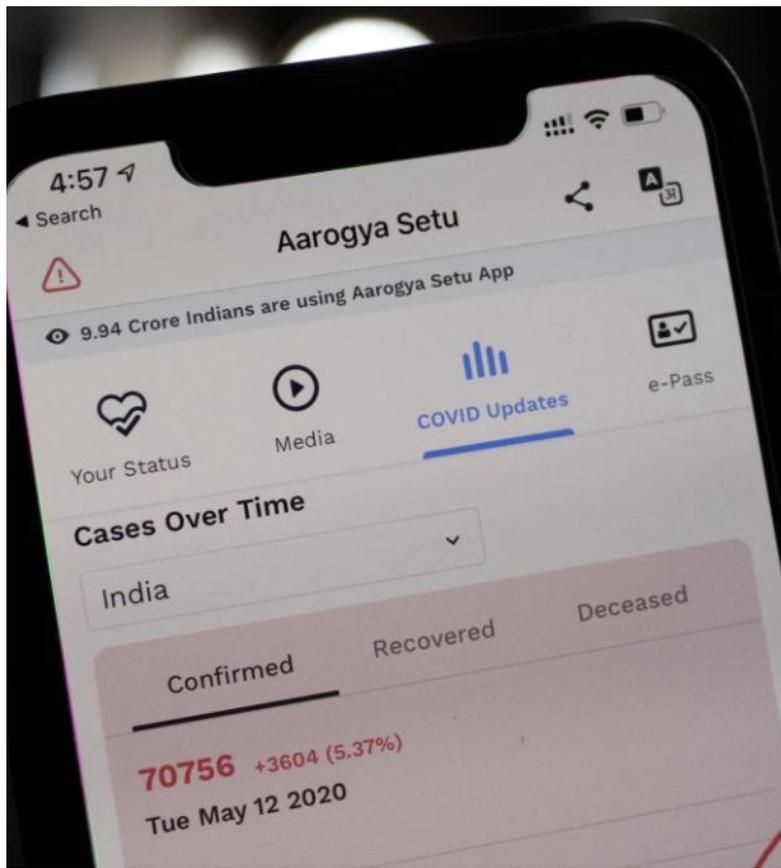


The App is privacy-first by design & available in Android & iOS

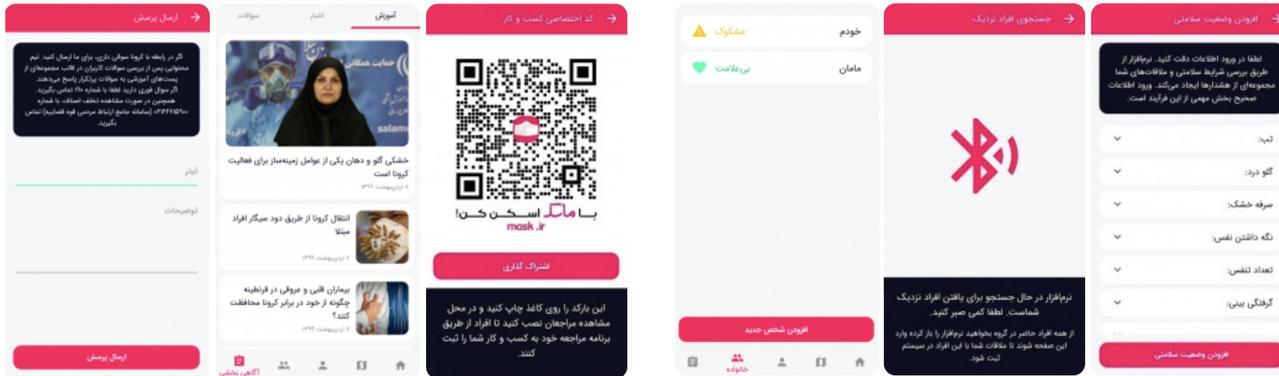


The App has highly scalable architecture & is **available in 11 languages**

https://www.google.com/url?sa=i&url=https%3A%2F%2Ftwitter.com%2Fmygovindia%2Fstatus%2F1245745090401726468&psig=AOvVaw3EfBzk5UX_Fr3wmOtBnHkj&ust=1591572850304000&source=images&cd=vfe&ved=0CAIQjRxqFwoTClioZYWt7ukCFQAAAAAdAAAAABAf



Iran
Mask.ir



<https://myket.ir/app/ir.covidapp.android>

افزودن وضعیت سلامتی →

لطفا در ورود اطلاعات دقت کنید. نرم‌افزار از طریق بررسی شرایط سلامتی و ملاقات‌های شما مجموعه‌ای از هشدارها ایجاد می‌کند. ورود اطلاعات صحیح بخش مهمی از این فرآیند است.

تب: ▾

گلو درد: ▾

سرفه خشک: ▾

نگه داشتن نفس: ▾

تعداد تنفس: ▾

گرفتگی بینی: ▾

افزودن وضعیت سلامتی

ماسک   

 احتمال ابتلای شما به کرونا کم است. لطفا تا بهبود کامل، در منزل بمانید.

ورود اطلاعات سلامت روزانه

۲۵ اسفند ۱۳۹۸ - ۱۲:۵۹

افزودن فعالیت جدید

زمان روزرسانی وضعیت شما: ۲۵ اسفند ۱۳۹۸ - ۱۲:۵۹

جستجوی افراد نزدیک →



نرم‌افزار در حال جستجو برای یافتن افراد نزدیک شماست. لطفا کمی صبر کنید. از همه افراد حاضر در گروه بخواهید نرم‌افزار را باز کرده وارد این صفحه شوند تا ملاقات شما با این افراد در سیستم ثبت شود.



آنچه باید درباره ویروس کرونا بدانید

از ووهان تا تهران

در چند وقت اخیر اسم کرونا در تمامی رسانه ها جز عناوین مهم خبری بوده است و اکثر ما تا حدودی با تاثیری که این ویروس بر چین و دنیا گذاشته است آشنا بوده ایم. ویروسی نا آشنا به نام کرونا که شهر ووهان چین را به تعطیلی کشانده بود. هیچ کس فکر نمی کرد این ویروس در مدت کوتاهی هزاران نفر در سطح جهان از ژاپن، کره جنوبی، تایلند، سنگاپور، ایالات متحده آمریکا و اخیرا ایران را آلوده کند. ۳۰ بهمن خیرگزاری ها و مقامات دولتی وجود ویروس کرونا در ایران (قم) را تایید کردند.

با وجود مطالعات و آزمایش هایی که توسط محققین بر روی کرونا صورت گرفته، کماکان این ویروس ناشناخته باقی مانده است. روش های بسیاری برای پیشگیری، به خصوص هنگام مسافرت پیشنهاد می شود. در ادامه به بررسی ویروس کرونا می پردازیم:

مشاوره آنلاین ویروس کرونا

آنلاین تست کرونا بدهید

نقشه های شیوع کرونا در ماسک روزآ مد شد / نقشه فوت شدگان اضافه شد

نقشه کل مبتلایان تا ۲۹ فروردین

مبتلایان جدید ۱۵ تا ۲۹ فروردین

کل درمان شدگان تا ۲۹ فروردین

درمان شدگان جدید ۱۵ تا ۲۹ فروردین

کل فوت شدگان تا ۲۹ فروردین

فوت شدگان جدید ۱۵ تا ۲۹ فروردین

مناطق تردد مبتلایان

مناطق پرتردد عموم مردم



www.Mask.ir

Mask_application

<https://twitter.com/MaskApplication/status/1251726935736098816/photo/1>

<https://peivast.com/p/73198>

۲۰۶۱۰ نفر مبتلا (+۹۶۶)

۷۶۳۵ نفر درمان شده (+۸۹۰)

۱۵۵۶ نفر فوت شده (+۱۲۳)



خانواده

وضعیت سلامتی خانواده خود را پیگیری کنید.



من

وضعیت سلامتی خود را پیگیری کنید.



آگاهی بخشی

از محتوای آموزشی نرم افزار بهره ببرید.



نقشه

نقشه محیط‌های پر خطر را مشاهده کنید.

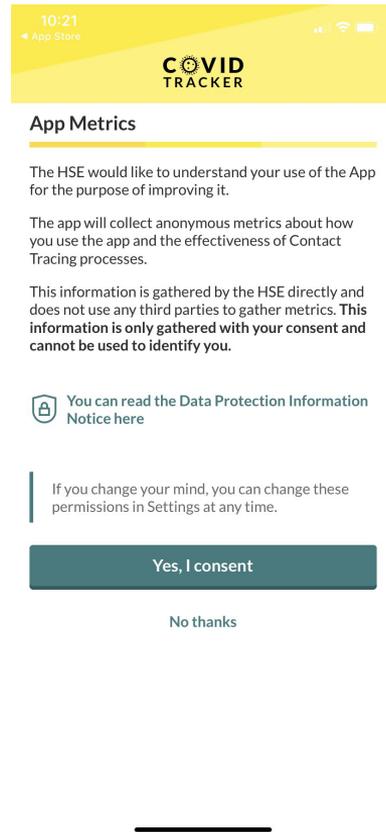
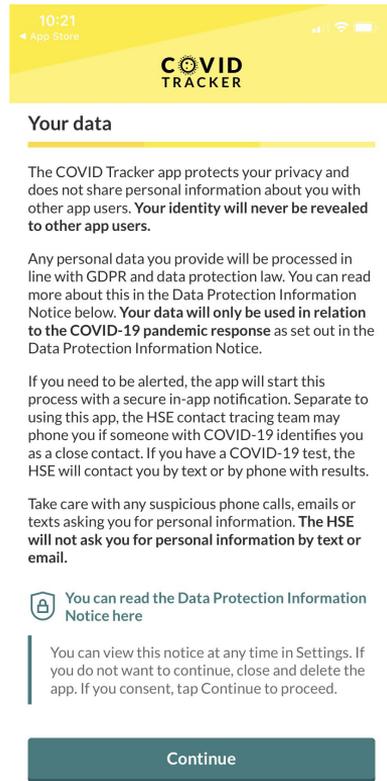
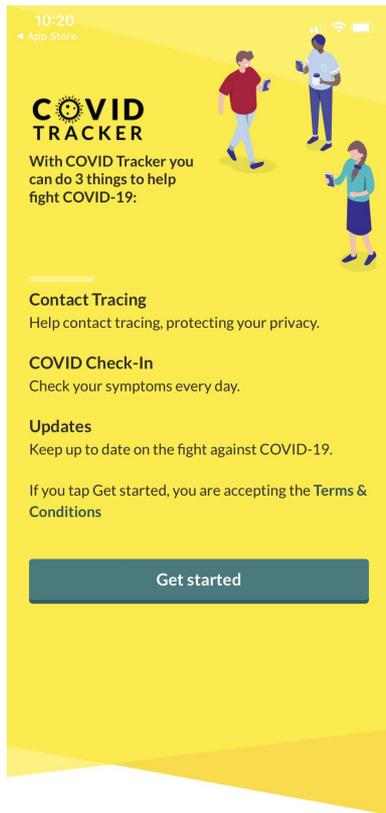


خانه

<https://peivast.com/p/73198>

Ireland

HSE Covid-19 App



iOS app accessed July 20, 2020
Version 1.0.1



Data Protection Information Notice

Version 1.01 - Updated 13/7/2020 - Section 9.1 updated to reflect that two of the third party data processors listed do not have access to user data.

1. Introduction

The purpose of this privacy information notice is to explain how the COVID Tracker App (the 'app') works, what data is collected by the app, who has access to that data and the purposes for which the data is used. This notice also provides you with information about your data protection rights under data protection law, including under the EU General Data Protection Regulation (EU Regulation 679/2016) ('the GDPR').

The app is available to download for free from the Apple App Store and the Google Play Store. Use of the app by you is completely voluntary - it is your choice to download it, your choice to keep it on your device, your choice to opt-in to and use the different services that are available on the app, and your choice to delete it. You will never be required to use the app in order to access other services from the HSE or Department of Health. You will be given a separate opt-in (consent) for each service that processes your personal data in the app. You can withdraw your consent(s) at any time.

The app runs on iPhones that support iOS 13.5 and higher, and Android phones running Android 6.0 and higher. The app is not intended for use by persons under 16 years of age, as they are considered not to have reached the digital age of consent. You will be asked to confirm that you are 16 years or older after you download the app.

2. The Data Controllers

=====



Contact Tracing

Contact tracing helps prevent the spread of COVID-19.



This app supports the work of the HSE's Contact Tracing teams, but those teams may also contact you as part of manual contact tracing.

The app will send you a Close Contact Alert if you have been in close contact with someone who has tested positive for the virus.

To enable Contact Tracing for this app you need to turn on:

✦ Exposure Notification Service

and to get an alert you need to turn on:

🔔 Notifications

If you change your mind, you can change your permissions in Settings at any time.

Continue

Maybe later



Contact Tracing

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Continue

Maybe later

Use "COVID Tracker Ireland" for Exposure Notifications?

Only one app can notify you of potential exposure. Other apps' ability to send exposure notifications will be turned off. The date, duration, and signal strength associated with possible exposures will be shared with "COVID Tracker Ireland".

Don't Enable Enable



Contact Tracing

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To enable Contact Tracing for this app you need to turn on:

✦ Exposure Notification Service

and to get an alert you need to turn on:

🔔 Notifications

If you change your mind, you can change your permissions in Settings at any time.

Continue

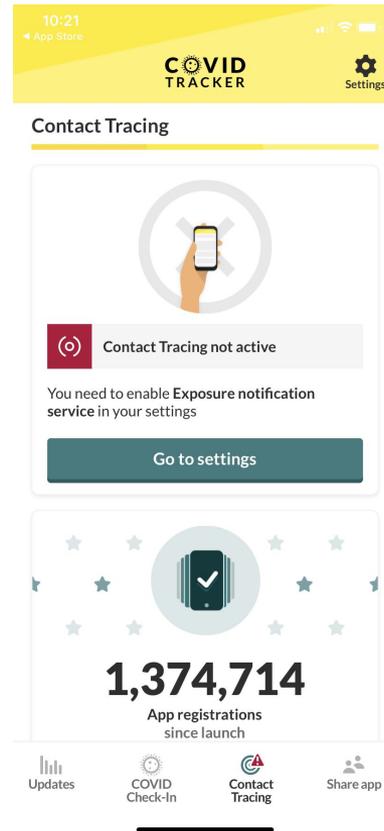
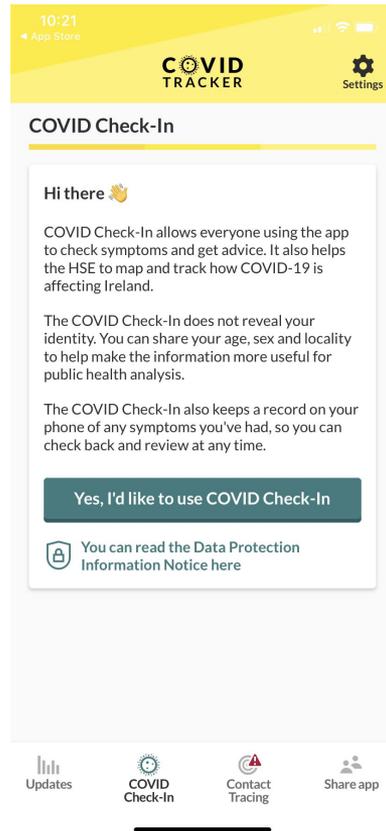
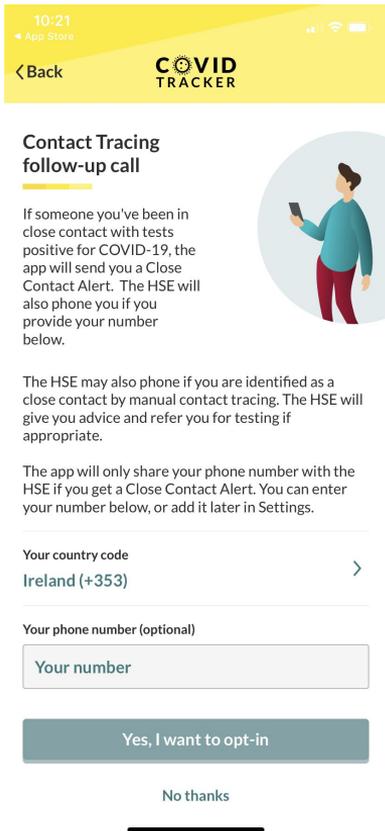
Maybe later

"COVID Tracker Ireland" Would Like to Send You Notifications

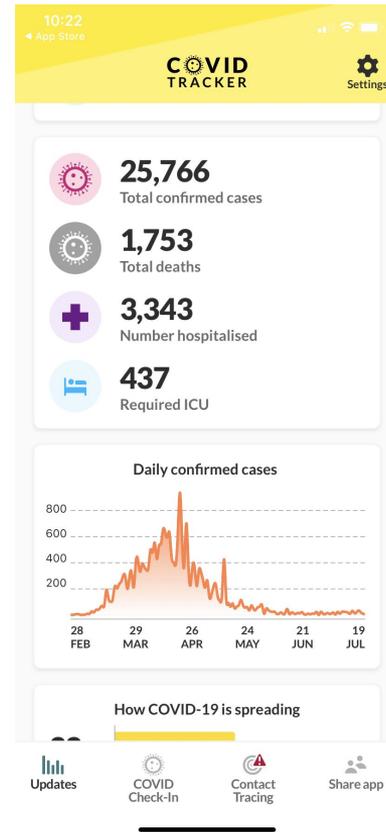
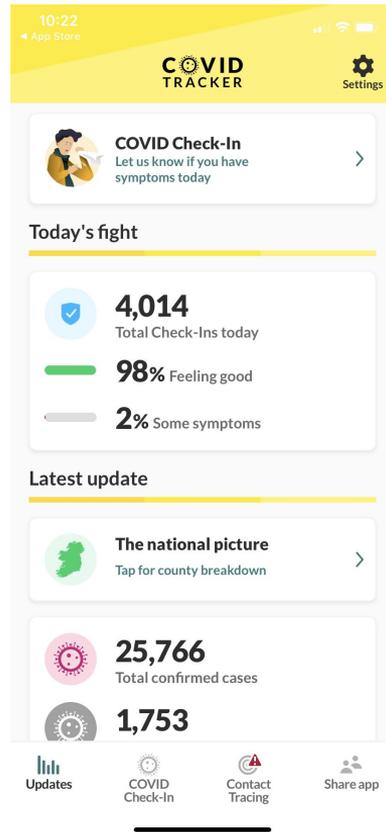
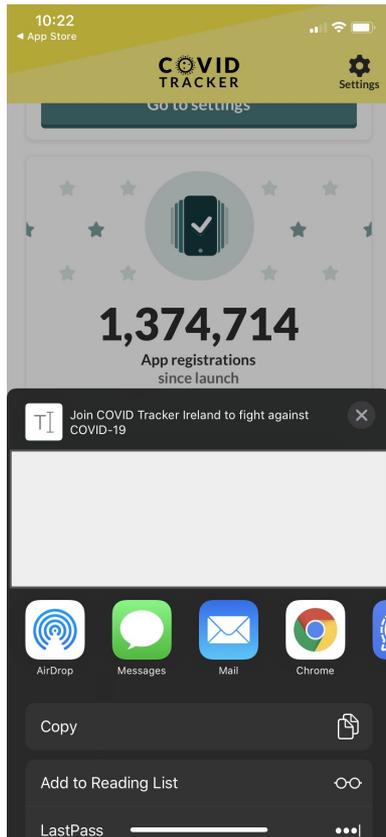
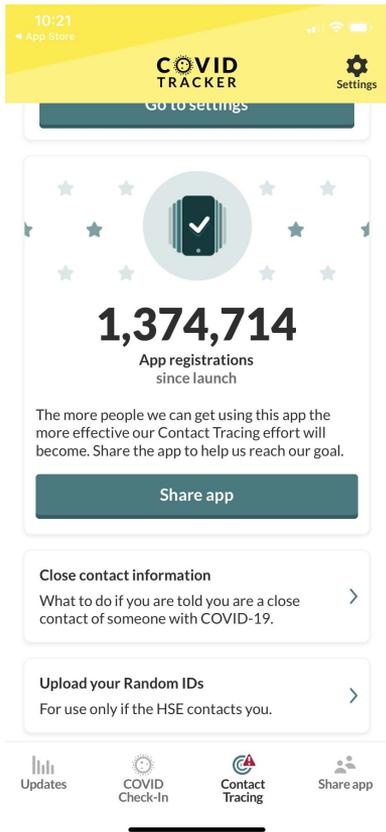
Notifications may include alerts, sounds, and icon badges. These can be configured in Settings.

Don't Allow Allow

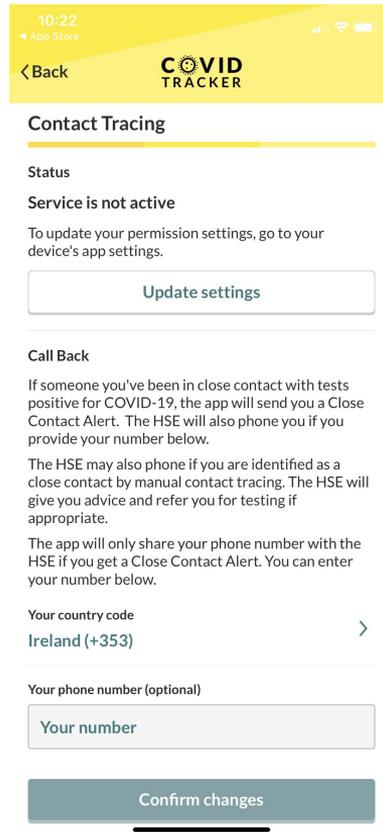
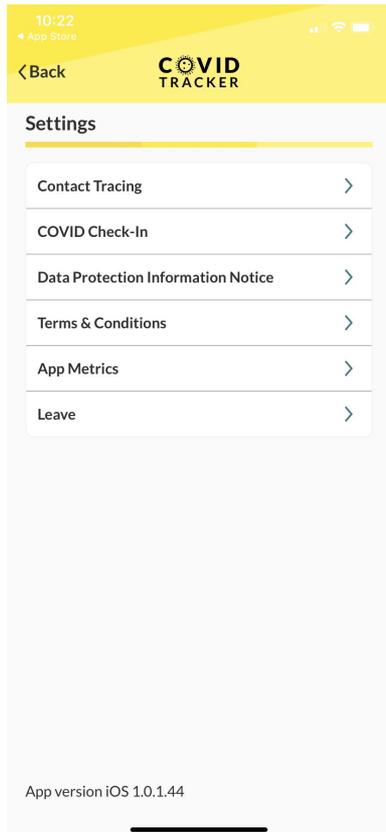
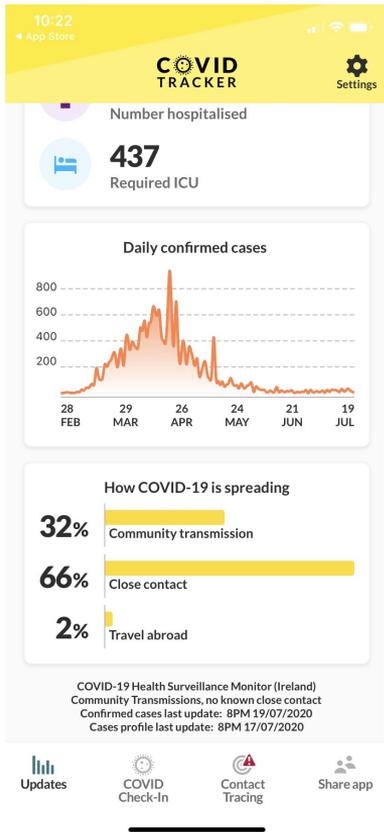
iOS app accessed July 20, 2020
Version 1.0.1



iOS app accessed July 20, 2020
Version 1.0.1



iOS app accessed July 20, 2020
Version 1.0.1



iOS app accessed July 20, 2020
Version 1.0.1



Data Protection Information Notice

Version 1.01 - Updated 13/7/2020 - Section 9.1 updated to reflect that two of the third party data processors listed do not have access to user data.

1. Introduction

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The purpose of this privacy information notice is to explain how the COVID Tracker App (the 'app') works, what data is collected by the app, who has access to that data and the purposes for which the data is used. This notice also provides you with information about your data protection rights under data protection law, including under the EU General Data Protection Regulation (EU Regulation 679/2016) ('the GDPR').

The app is available to download for free from the Apple App Store and the Google Play Store. Use of the app by you is completely voluntary - it is your choice to download it, your choice to keep it on your device, your choice to opt-in to and use the different services that are available on the app, and your choice to delete it. You will never be required to use the app in order to access other services from the HSE or Department of Health. You will be given a separate opt-in (consent) for each service that processes your personal data in the app. You can withdraw your consent(s) at any time.

The app runs on iPhones that support iOS 13.5 and higher, and Android phones running Android 6.0 and higher. The app is not intended for use by persons under 16 years of age, as they are considered not to have reached the digital age of consent. You will be asked to confirm that you are 16 years or older after you download the app.

2. The Data Controllers

=====



Terms & Conditions

Please read these terms of use carefully. By downloading the COVID Tracker App, you agree to these terms.

Introduction

These are the terms of use for the COVID Tracker App (also referred to as "the App") which is being made available by the Irish Health Service Executive in conjunction with the Irish Department of Health, for people across the island of Ireland. The

App is designed to assist in tracing cases of Covid-19 and to provide information about the virus and steps for controlling the spread of the virus.

Please read these terms of use in conjunction with the Privacy Information Notice for the App, available to view here <http://www.covidtracker.ie>. See further about the Privacy Information Notice below.

References to "we", "us" or "ours" in these terms of use are to the Irish

Health Service Executive (HSE), which is the owner and licensor of the COVID Tracker App. References to "you", "your" or "user" refer to the person who has downloaded the App onto their device for their own personal use and who uses the Service.

What the COVID Tracker App does

The COVID Tracker App provides the following services (**the Services**):

The app gives you the option to use some or all of these features and

you can enable or disable each of these features separately within the app settings. App settings also gives you the ability to remove or update any information you provided to the app, at any time.

Contact Tracing



App Metrics

The HSE would like to understand your use of the App for the purpose of improving it.

The app will collect anonymous metrics about how you use the app and the effectiveness of Contact Tracing processes.

This information is gathered by the HSE directly and does not use any third parties to gather metrics. **This information is only gathered with your consent and cannot be used to identify you.**

 You can read the Data Protection Information Notice here

Share app usage statistics



Leave

Thank you for helping us fight COVID-19. We're sorry to see you go. When you tap 'I want to leave' we will remove all data stored by the app from your device including a mobile number, if you have shared one, symptom data and any demographic health data you may have shared. Non-identifying authorisation tokens stored on the server will also be deleted.

Random IDs created or collected by Exposure Notification Services cannot be removed by the COVID Tracker app. If you wish to remove these Random IDs you can do this via your device Settings.

 You can read the Data Protection Information Notice here

I want to leave

iOS app accessed July 20, 2020
Version 1.0.1

Stay Safe

Protect each other from coronavirus (COVID-19)



Easy to use

Set the app up and it works in the background



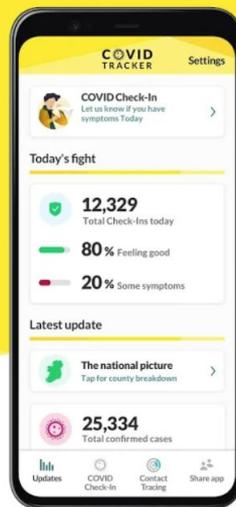
Contact Tracing

Help reduce the spread of coronavirus



Check your symptoms

Track how you are feeling each day



Latest updates

Get the latest facts plus health advice if needed



<https://play.google.com/store/apps/details?id=com.covidtracker.hse>

About the App

Stay safe. Protect each other.

To help the country through this crisis the COVID response app has three functions: contact tracing, symptom tracking, and news & information.

Contact Tracing

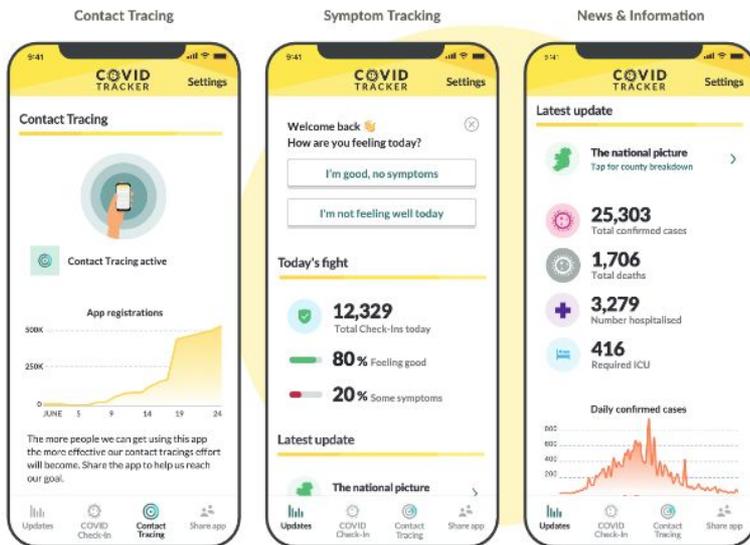
The app records if users are in close contact with another app user. If an app user tests positive for COVID-19 the app will alert other app users that have been closer than 2 metres for more than 15 minutes. If users choose to share their phone number, the HSE can phone to tell them what they need to do to keep themselves and others safe.

Symptom Tracking: Daily Health Check-in

Users can help slow the spread of COVID-19 by telling the HSE how they are feeling every day. Anonymous information about how many people have symptoms, at any time, helps us map and predict the spread of the virus. If users do have symptoms, then the app will give them advice on what to do.

Definitive Source of News & Information

The app will also give users easy access to the latest facts and figures about COVID-19 in Ireland and signpost them to information that will help them care for themselves if they are sick.



https://github.com/HSEIreland/covidtracker-documentation/blob/master/documentation/COVID%20Tracker%20App%20-%20Product%20Explainer_v1.0.pdf

Contact Tracing

Contact tracing using the app reduces the time it takes to alert close contacts once someone tests positive for COVID-19. The app helps inform close contacts who are unknown to each other or who may have been forgotten by the person.

First time use

The first time anyone uses the app they are prompted to allow the app to collect and share the anonymous data transmitted by nearby mobile phones that also have the app installed.

Optional follow-up call service

When someone first uses the app they are asked how they would like us to contact them. If their phone sees that they have been in close contact with someone who has tested positive our Contact Tracing Team can call them if they have chosen to share their contact phone number with us.

Using the capabilities of mobile operating systems

Apple and Google have developed a method that allows specific government-only COVID-19 apps to make use of Bluetooth technology on phones that would otherwise not be available. As the app will need to use the most current version of the phone's operating system users may be asked to upgrade the first time they use it. None of the information in this app is ever shared with Apple or Google.



First time use



Optional contact information

Contact Tracing

How it works on the app

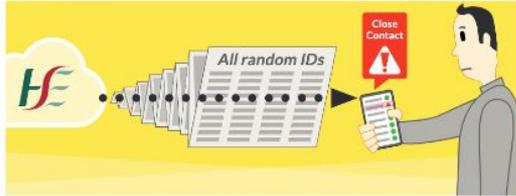
Continuous scanning

Two phones that have the app installed use their Bluetooth signals to remember each other anonymously. Each then logs the nearby phone at least every 5 minutes. This activity happens in the background on users' phones all day.



Alerting others

If someone later tests positive for coronavirus they can decide to share their anonymous IDs. This is so other app users can be alerted if they are at risk. The app then uses those anonymous IDs to determine whether a user has been in close contact with that positive person; while never revealing the positive person's identity. A close contact is logged on each app users phone only if they have been within 2 metres of each other for more than 15 minutes. This matches the European Centre for Disease Prevention and Control definition of a close contact.



IMPORTANT

No one can ever know who users have met based upon data in this app. This includes the HSE.

Privacy

Location data is not of interest in contact tracing. So, to preserve privacy, the app does not use GPS or any other method to track people's movements or location. As the app uses a de-centralised system, no data is held centrally by the HSE. The identity of anyone who tests positive for coronavirus is always protected by the app.

Network size

Every additional contact that the app can trace will improve our existing contact tracing operations and help to stop the spread of the virus. The more people that use the app, the more effective it will be.

Potential App Registrations



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Contact Tracing

Positive Test Result

Sharing

If someone has tested positive and they have the app on their phone, we will ask them to upload the list of anonymous IDs that the app has stored on their phone. They can choose if they want to do this.

Uploading

If they choose to do so, the HSE Contact Tracing Team send them a unique upload code by text message. This unique code unlocks the upload functionality within the app. Then the user is able to upload their own anonymous IDs for the last 14 days. This method prevents people from undermining the system with fake positive self-diagnoses, as upload codes can only ever be issued by the HSE.

Benefits for everyone

The app will enable citizens to play an active role in the contact tracing process. The app enhances the existing process by reducing the time it takes to alert people that they are close contacts of someone who has COVID-19. Contact tracing relies on someone that has tested positive knowing and remembering all the people that they have been in close contact with so we can get in touch with them with information and advice. The app will help us inform close contacts of people that have tested positive who are unknown to each other or who may have been forgotten.



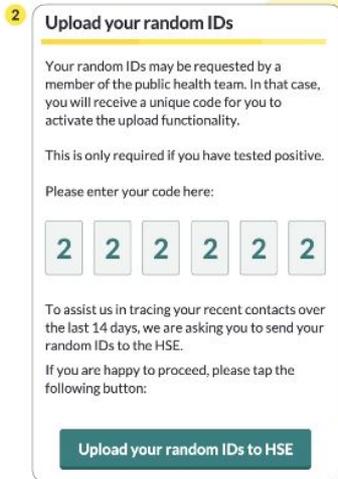
IMPORTANT

Only the HSE can allow someone to upload their anonymous IDs, and only if they test positive for coronavirus.



Unique upload code received by text message

Using unique code to upload last 14 days of anonymous IDs



3



Users must also give permission to their phone's operating system, whether iOS or Android, to share anonymous IDs

4



Contact Tracing

Close contact alerts

Day-to-Day Activity

The app will continuously download the anonymous IDs of app users who have tested positive for COVID-19. These are then compared to the unique set of anonymous IDs collected on app users' phones. This all happens in the background and users are not interrupted.

Close Contact alerts

If the app finds that an app user was close enough (2 metres or less) for long enough (15 minutes or longer) to someone who has the virus, they will get an alert as soon as their app detects that they were in close contact. This alert is called a 'Close Contact Alert'. The app will also display a persistent in-app warning to ensure that the user sees that Close Contact Alert.

Phone call from Contact Tracing Team

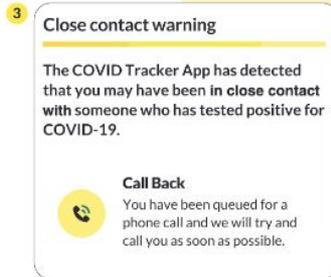
If the user decides they also want a phone call if the app detects they are a close contact, the app will share their phone number with the HSE. The user will still receive a persistent Close Contact Alert displayed within the app. If the user has chosen to self-manage (by not providing their contact phone number), then the app will provide information to the user about what to do next and what to avoid doing.



Close contact alert message



In-app close contact alert



In-app call-back notification



Example advice information

Inside the App

COVID Check-in: symptom tracker

App users can also choose to share information about how they are feeling each day, whether they have symptoms or not. This collective information can create a real-time overview of the spread of the virus. All information shared with the COVID Check-in is anonymous.

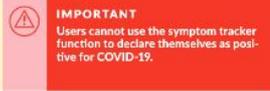
Optional Information Sharing

The app asks users to provide some optional demographic information the first time they use the COVID Check-in, and to opt-in to sharing that information with the HSE. The optional demographic information is their sex, age range, and their county or town. The option to 'Prefer not to say' is available for all three requests in the app.

Daily Check-in

Choosing 'I'm good, no symptoms' completes the user's check-in for that day. If users select 'I'm not feeling well today' they are prompted to answer 4 questions related to: fever, breathing, loss or changed sense of smell or taste, and coughing symptoms.

Based on their answers the app presents relevant feedback advice in line with the current HSE case definition. The app also uses age range as a factor for giving feedback advice.



9:41 COVID TRACKER Settings

COVID Check-in

About you

Your sex (optional)

Female

Male

Prefer not to say

Your age range (optional)

Choose your age range >

Your county (optional)

Kilkenny >

Your locality (optional)

Choose your locality >

Continue

Collecting first-use demographic information

Do you have any type of cough?

No Yes

Example symptom tracker question

9:41 COVID TRACKER Settings

Thank you

These symptoms are a match for the symptoms of coronavirus. Remember, 8 out of 10 people with COVID-19 will recover at home with rest and over-the-counter medicine.

What to do next

Please self-isolate at home to protect others.

Start by carefully reading the advice from the HSE below, then call your GP to check in with them.

If you have any health conditions that mean you're more at risk, they might ask you to have a test for COVID-19.

Read more advice here

Example feedback advice

Appendix H – Data Retention

The following table sets out further details in relation to the justification for the retention of each of the personal data fields and also the measures to ensure that the retention policies are adhered to.

Data	Retention	Retention Justification	Retention Measure
Phone number Date of last exposure	<p>This phone number is securely held on the app until the user removes it via settings; selecting the Leave function; or uninstalling the app.</p> <p>The phone number, if sent from the app to the HSE contact tracing operations (CTC) for call back, will be processed as per the procedures for all identified close contacts via CTC.</p>	<p>The justification to store the phone number on the app until a person removes it via settings/Leave/uninstalling is to carry out the wishes of the person to receive a call back if they get a close contact warning, which could happen at any stage.</p>	<p>The removal of the phone number from the app is self-managed by app users.</p> <p>If the phone number and date of last exposure has been sent to the HSE to perform a call back due to an exposure notification alert, the app backend will immediately delete your number once it is transferred to the HSE CTC. The HSE CTC will then process your number in line with the current contact tracing operations for contact tracing purposes.</p>
Sex Age Range County Town (>90 population)	<p>This data is securely held on the app until the user removes it via settings; selecting the Leave function; or uninstalling the app.</p> <p>This data is held by the HSE for 1 day after receipt to facilitate its transfer to the CSO.</p> <p>This data is retained by the CSO as anonymous data for statistical and research purposes in line with the CSO's data management policy.</p>	<p>The justification to store the demographic data on the app until a person removes it via settings/Leave/uninstalling is to facilitate its sharing with the daily check-in data in line with the user's choice to do so. This is a convenience so that users are not asked if they would like to enter this demographic data each time.</p> <p>The uploaded data is held for 1 day after receipt to give sufficient time to ensure it is securely transferred to the CSO, as data is transferred daily in batch.</p>	<p>The removal of demographic data from the app is self-managed by app users.</p> <p>The removal of uploaded data to the HSE is automatically removed 1 day after receipt.</p>
COVID-19 Symptoms	<p>This data is securely held on the app for a maximum of 28 days, or until the user removes it by selecting the Leave function; or uninstalling the app.</p>	<p>The justification to store the symptom data on the app until a person removes it via settings/Leave/uninstalling is to support the person reviewing their symptoms as an aide-memoire, and to facilitate the sharing of the 28 days' worth of symptoms at each daily check</p>	<p>The removal of symptom data from the app is automatic after 28 days or self-managed by app users on Leave/uninstall.</p>

	<p>This data is held by the HSE for 1 day after receipt to facilitate its transfer to the CSO.</p> <p>This data is retained by the CSO as anonymous data for statistical and research purposes in line with the CSO's data management policy.</p>	<p>in. 28 days is considered a window of epidemiological significance that generally covers the period of symptom onset through to recovery.</p> <p>The uploaded data is held for 1 day after receipt to give sufficient time to ensure it is securely transferred to the CSO, as data is transferred daily in batch.</p>	<p>The removal of uploaded data to the HSE is automatically removed 1 day after receipt.</p>
Diagnosis Keys	<p>Phones generating random IDs retain the data for 14 days unless the user deletes ENS data via phone settings.</p> <p>The registry stores IDs for 14 days.</p> <p>Apps download and process IDs to check for exposure events only for as long as is required to determine if there is a match or not.</p>	<p>Each phone holds up to 14 of daily random IDs to potentially upload and publish on the registry to allow other app users to check if they were in close contact in the last 14 days. 14 days is considered a window of epidemiological significance that generally covers the potential for viral transmission.</p> <p>The registry stores up to 14 days' worth of IDs for the above reason.</p> <p>IDs are downloaded for the purpose of checking for a close contact.</p>	<p>Phones automatically delete generated daily random IDs after 14 days.</p> <p>The registry automatically deletes random IDs after 14 days.</p> <p>Downloaded IDs to phones are deleted after checking for a match is performed.</p>
Mobile number Date (symptom onset minus 48 hours)	<p>As soon as the SMS is sent, the phone number is deleted, and only the code is preserved with the symptom date. The app backend has no way of knowing the phone number of a person that either uploads their keys, or chooses not to upload their keys.</p> <p>The code is processed long enough to authorise diagnosis keys upload, and also to retrieve the symptom date to determine the appropriate window of diagnosis keys to upload to the registry. It is deleted once this purposes is fulfilled or within 10 minutes, whichever occurs first.</p>	<p>The justification for retaining the mobile number for the period set out, is to send the SMS to enable a user to upload their diagnosis keys.</p> <p>The date is retained for the purpose of stripping out diagnosis keys prior to this date when they are uploaded. The epidemiological window of significance (viral shedding) is from this date onwards.</p> <p>The code is retained for the purpose of authorising the upload to ensure the diagnosis key registry does not get polluted with fake submissions.</p>	<p>The mobile phone number is automatically removed as soon as the SMS is sent.</p> <p>The date and code are removed automatically once they are used, or after 10 minutes – whichever comes first.</p>

<p>Metrics</p> <p>See Appendix D for full breakdown.</p>	<p>This data is retained by the HSE as anonymous data for statistical and research purposes for a minimum of 7 years and reviewed for further retention at that stage.</p> <p>This data is retained by the CSO as anonymous data for statistical and research purposes in line with the CSO's data management policy.</p>	<p>This data is retained for the purposes of monitoring the efficacy of the app and improving it.</p>	<p>This data is manually reviewed by the HSE and the CSO in line with their policies for the retention of statistical and research data.</p>
<p>IP address and app security tokens</p>	<p>IP address is held in a transient manner on the networking layer for networking and security reasons. It is not persisted, nor logged on the app backend in any other way.</p> <p>The app security tokens are deleted on selection of the Leave function, or the deletion of the app (immediately on the phone, and after 60 days of not being used by the app backend as the backend is not aware of an app being deleted).</p>	<p>This data is retained for as long as it is needed for the purposes of network communication.</p> <p>Security tokens are retained on the app and the app backend to protect the API layer of the app backend from being subjected to attacks and pollution of fake data.</p>	<p>The IP address is automatically removed after it has served its primary networking purpose.</p> <p>Security tokens are deleted when a user selects Leave or automatically after 60 days of lack of use.</p>

Appendix I – Conditions of Consent

As set out in the document, the use of the app is entirely voluntary in nature and will continue to be so. The controllers have no means to detect use or lack of use of the app by any identifiable individual's phone. A supporting governance mechanism is provided to oversee the fulfilling of this principle in practice, ensuring that the voluntary nature is protected, and that consent is freely given. Article 7 of GDPR set out a series of conditions when the processing of personal data is based on consent. An assessment of these conditions are set out as follows.

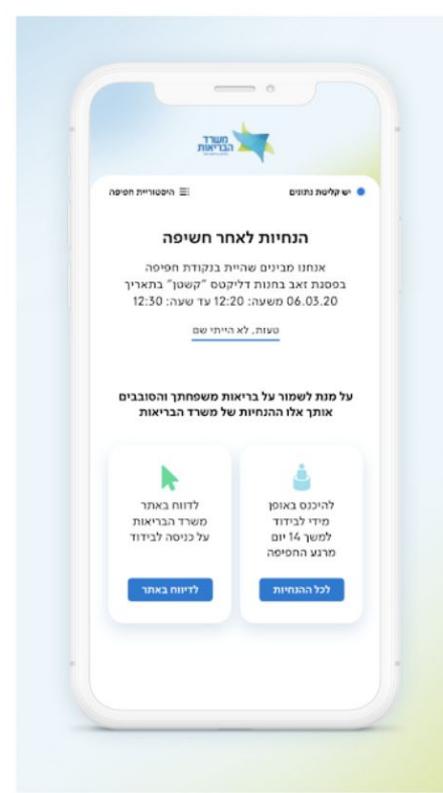
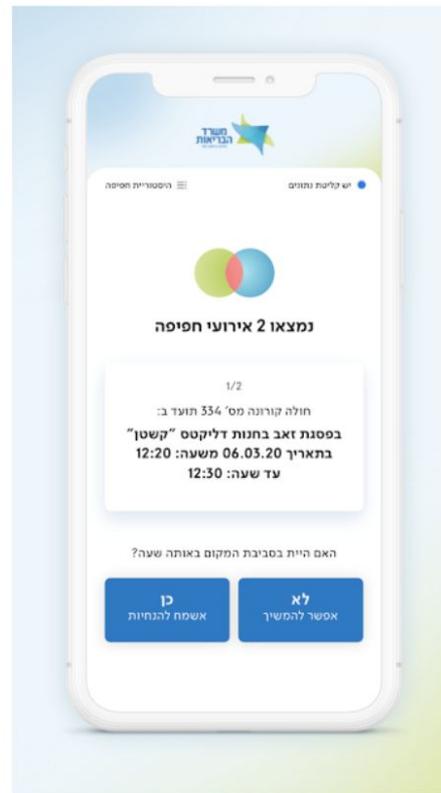
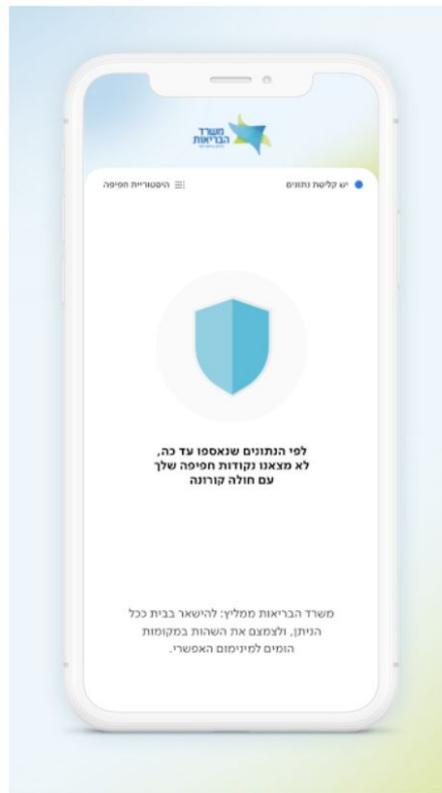
Data	Demonstration of Consent	Clearly Distinguishable	Right to Withdraw	Conditionality / Freely Given
Phone number Date of last exposure	The phone number is shown in settings, which can be accessed at any stage, and demonstrates that the number has been recorded under users' own volition and a call back will be triggered if the data is present.	The phone number is collected on a screen of its own, setting out the reason for its collection, its optional nature, and for consent to the specific purpose for its processing – the option of a call back from the HSE.	Users can change their mind regarding consent at any stage via the app settings. Deleting the phone number via app settings, clicking Leave or uninstalling the app are the means to withdraw consent at any stage. If the phone number and date has been shared with the HSE for call back as part of CTC, the app backend automatically and immediately deletes the phone number and date once it has transferred to CTC. Once with CTC the data is processed in line with existing contact tracing purposes. ¹³	Phone number entry is optional and is not conditional on the functioning of Contact Tracing function within the app. Furthermore, there is no dependency on, or conditionality relating to, the processing of this data beyond the specific purpose for its processing – the option of a call back from the HSE.
Sex Age Range County	The demographic data entered is shown in settings, which can be accessed at any stage, demonstrating that the	The entering of demographic data the first time requires the user to go through a screen dedicated to describing the data	Users can change their mind regarding consent at any stage via the app settings. Deleting the demographic data via settings, clicking	Demographic entry is optional and is not conditional on the functioning of the COVID Check-in function within the app.

¹³ HSE CTC data processing, and data subject rights and their exercising, can be found at - <https://www.hse.ie/eng/gdpr/data-protection-covid-19/>

Town (>90 population)	data has been recorded under users' own volition.	processing involved and asks for consent. The demographic data is collected on a screen of its own, where each field is optional, allowing users to skip the provision of this data.	Leave or uninstalling the app are the means to withdraw consent at any stage. Demographic data held by the HSE and the CSO is not relatable to any specific individual, and as such removal is not possible.	Furthermore, there is no dependency on or conditionality relating to the processing of this data beyond the specific purpose for its processing – the sharing of demographic data as part of the optional COVID Check-In function. Demographic data cannot be reasonably used to identify a person and as such the controllers have no means, nor does it seek them, to identify whether a specific person has or has not shared demographic data.
COVID-19 Symptoms	The act of entering and sharing symptom data with the HSE is timestamped and recorded on the phone each day, which can be viewed at any time by the user via the COVID Check-In function. This historical record is retained on the phone for 28 days. The only means of sharing symptom data is to first give consent to the sharing of said data.	The entering of symptom data the first time requires the user to go through a screen dedicated to describing the data processing involved in the function and asks for consent.	Users can change their mind regarding consent at any stage and remove any symptom data held on the phone by clicking Leave or uninstalling the app. Symptom data held by the HSE and the CSO is not relatable to any specific individual, and as such removal is not possible.	Symptom entry is optional and is not conditional on the functioning of the Contact Tracing function within the app. Furthermore, there is no dependency on or conditionality relating to the processing of this data beyond the specific purpose for its processing – the sharing of symptom data as part of the optional COVID Check-In function. Symptom data cannot be reasonably used to identify a person and as such the controllers have no means, nor does it seek them, to identify whether a specific person has or has not shared symptom data.
Diagnosis Keys	The phone settings keeps a record that a person has consented to turning on or off Exposure Notification Services on the phone. Turning on this service means that diagnosis keys will be stored on the phone.	The phone settings screens in relation to the diagnosis keys are provided by Apple and Google and are separate to the app screens. The settings screens are related only to the specific purpose of exposure notification.	The user can turn on and off the Exposure Notification Services at any time in the phone settings, and can also delete any ENS data at any time in the same place. Diagnosis keys held by the HSE is not relatable to any	The processing of diagnosis keys is optional and is not conditional on the functioning of the COVID-19 Check-In function. Furthermore, there is no dependency on or conditionality relating to the processing of this data beyond the specific purpose for its processing – exposure notification.

	Also, before uploading diagnosis keys the user is asked for their consent, and after the upload of the keys, the app presents a confirmation of upload message to the user.	Before uploading of diagnosis keys the app asks on a dedicated screen, which describes the data processing involved, for consent. This is complemented by the phone also prompting the user for consent to allow the app to access the diagnosis keys.	specific individual, and as such removal is not possible.	Diagnosis keys cannot be reasonably used to identify a person and as such the controllers have no means, nor does it seek them, to identify whether a specific person has or has not uploaded diagnosis keys.
Mobile number Date (symptom onset minus 48 hours)	When a mobile number that has been collected by CTC is processed for the purposes of sending an authorisation code for upload of diagnosis keys, a record that a person has consented to this act is maintained by CTC.	A person is phoned by the HSE on a positive diagnosis and is asked separately and clearly on the phone if they are an app user and if they consent to sharing their diagnosis keys.	The processing of the mobile phone and date of symptom onset is transient. Once the mobile number has been used to send an SMS it is immediately deleted. Also, the date of symptom onset is deleted once upload of keys has occurred or 10 minutes have passed, whichever occurs first.	CTC ensures that when a person is called to inform them they are positive for the virus, they will be asked if they are a COVID Tracker App user and if they are happy to share their diagnosis keys. This is an optional step and manual contact tracing interview continues as per normal. Furthermore, there is no dependency on or conditionality relating to the processing of this data beyond the specific purpose for its processing – publication of the diagnosis keys on the public registry to support exposure notification.
Metrics See Appendix D for full breakdown.	The record of consenting or otherwise to the sharing of metric data with the HSE can be accessed at any time via app settings.	During the initial screens of the app after app installation, a user is presented with a screen that is dedicated to asking consent for the recording and sharing of metric data.	The app settings metrics screen supports the turning on and off of the metric recording and sharing at any time.	The processing of metrics is optional and is not conditional on the functioning of the COVID Tracker App. Furthermore, there is no dependency on or conditionality relating to the processing of this data beyond the specific purpose for its processing – support the understanding of the use and efficacy of the app for the purpose of improving it. Metrics cannot be reasonably used to identify a person and as such the controllers have no means, nor does it seek them, to identify whether a specific

Israel HaMagen



<https://play.google.com/store/apps/details?id=com.hamagen>

6/28/20

How does it work?

1

Download the app

The HaMagen app is free to download from the App Store and Google Play. After installation and initial set up, you can close the app.

2

Receive notifications

The app will send you relevant updates. If you have crossed paths with a COVID-19 patient, it will also show you the exact time and location, and you will be able to review, and confirm or reject the notification.

3

In case of a match

If you confirm, you will be referred to the Ministry of Health website for information on what to do next, and you will be able to report the exposure to the Ministry.

4

If there's no match

If the message in the notification is incorrect, you can reject it and carry on as normal.

<https://govextra.gov.il/ministry-of-health/hamagen-app/download-en/>



2. Relevant notifications

The app will send you relevant updates. If you have crossed paths with a COVID-19 patient, it will also show you the exact time and location, and you will be able to review, and confirm or reject the notification >>



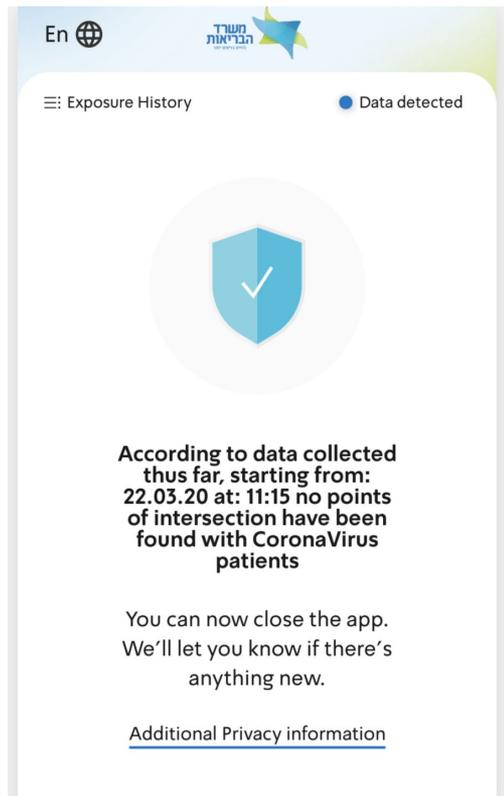
3. In case of a match

If you confirm, you will be referred to the Ministry of Health website for information on what to do next, and you will be able to report the exposure to the Ministry >>



4. If there's no match

If the message in the notification is incorrect, you can reject it and carry on as normal >>



Israel - HaMagen (Warnings sent to user to reject or accept)

Israel - HaMagen

Italy

Immuni

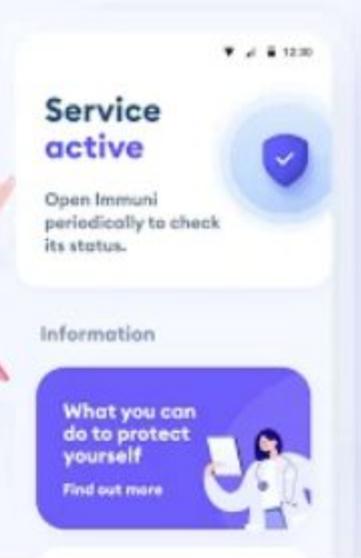


Let's start afresh together

Living a normal life once again is possible



Protect yourself and help slow down the epidemic



Find out if you are at risk of having contracted the virus



Without sacrificing your privacy

Your privacy is safe

-  Immuni does not collect your name, date of birth, address, telephone number, or email address.
-  Immuni cannot determine your identity or that of the people you come into contact with.
-  Immuni does not collect any geolocation data, including GPS data.
-  The data saved on your smartphone and the connections to the server are encrypted.

<https://play.google.com/store/apps/details?id=it.ministerodellasalute.immuni>



Hi!

With everyone's contribution, Immuni will help contain the virus and get us back to normal as soon as possible.

[Find out more](#)



Next



Immuni takes care of you

If you've been in contact with a user who has subsequently tested positive for the virus, Immuni notifies you and gives you instructions to protect your health and the health of your loved ones.

[Find out more](#)



Next



Slowing down the epidemic together

Users who discover that they have been exposed to the virus can self-isolate, slowing down the spread of the virus and helping us return to normal life faster.

[Find out more](#)



Next



Your privacy is protected

The app works without tracking your movements and without knowing your identity or the identity of the people you come into contact with.

[Find out more](#)



Let's get started

Screenshots from 6/28/20: iOS app version 1.2.0 (last update one week ago from 6/28/20).

Your privacy is safe

Immuni does not collect your first name, surname, date of birth, address, telephone number, or email address.

Immuni cannot determine your identity or the identity of the people you come into contact with.

Immuni does not collect any geolocation data, including GPS data. Your movements are not tracked in any way.

The data saved on your smartphone and the connections to the server are encrypted.

To help the National Health Service take care of you, Immuni tells the Ministry of Health server the following:

- The province where you live
- If the app is working properly
- If you have been warned of a high-risk contact

Your data is saved on servers in Italy, managed by public bodies, and controlled by the Ministry of Health.

Next

Your privacy is safe

Health server the following:
- The province where you live
- If the app is working properly
- If you have been warned of a high-risk contact

Your data is saved on servers in Italy, managed by public bodies, and controlled by the Ministry of Health.

All data is deleted when it is no longer needed, and in any case no later than 31 December 2020.

I declare that I am at least 14 years old

I have read the [privacy notice](#)

By continuing, I declare that I have read and accepted the [terms of use](#)

Next

6:18 Immuni

immuni.it

Privacy Notice

Notice pursuant to Articles 13-14 of Regulation (EU) 2016/679 (General Data Protection Regulation - GDPR)



This site uses technical and analytics cookies. By clicking 'I agree', you agree to the usage of cookies as described in the privacy notice.

Privacy notice

I agree

How Immuni works in five steps

The app assigns a random code to each device

The code is randomly generated and does not contain any information that identifies users and their device. In addition, the code assigned to each device changes several times per hour to better protect the users' privacy.

Those devices that meet exchange their respective random codes

When a user comes into contact with another Immuni user, the devices exchange their codes via Bluetooth Low Energy. The app thus keeps track of the contact made without knowing the identity of the users or where they met.

Those who test positive choose whether to share their random codes

Users who have tested positive for the virus, with the support of a healthcare professional, may upload to a server the random codes that their devices have transmitted during the previous days. By uploading them to the server, the codes are made available to all the devices that have the app installed, without allowing the direct identification of positive users.

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Privacy notice

I agree

6:18 Immuni

immuni.it

Termini di utilizzo

1. Informazioni generali

I presenti termini di utilizzo ("Termini di Utilizzo") si riferiscono all'utilizzo dell'app Immuni ("App") nonché dei Servizi (come definiti di seguito). Scaricando, installando o utilizzando l'App, o utilizzando i Servizi in qualsiasi modo, confermi di aver letto e compreso il contenuto dei presenti Termini di Utilizzo e ne accetti i termini.

I dati raccolti nel corso dell'utilizzo dell'App saranno trattati in conformità all'[informativa privacy](#) dell'App.

Immuni è un'app mobile che aiuta a tenere traccia del fatto che sei entrato in contatto con un altro utente dell'App risultato positivo al SARS-CoV-2 (il virus che provoca il COVID-19), inviandoti una notifica per avvisarti nel caso quell'utente ci metta in condizione di farlo.

I dati e le informazioni resi accessibili tramite l'App sono forniti a titolo esclusivamente indicativo. Immuni non offre consulenza medica e non deve pertanto essere intesa come dispositivo o come trattamento medico. In caso di necessità, dovrai pertanto consultare un medico autorizzato per tutte le questioni relative alle tue condizioni di salute.

Nel caso si rendesse necessario aggiornare l'App, i Servizi o i presenti Termini di Utilizzo, saranno adottate le misure appropriate per informarti, in conformità all'importanza dei cambiamenti effettuati. L'accesso o l'uso continuato dell'App o dei Servizi dopo l'entrata in

This site uses technical and analytics cookies. By clicking 'I agree', you agree to the usage of cookies as described in the privacy notice.

Privacy notice

I agree

This site uses technical and analytics cookies. By clicking 'I agree', you agree to the usage of cookies as described in the privacy notice.

Privacy notice

I agree

Which region do you live in?

Select the region where you live to help the National Health Service provide the best possible assistance.

- Abruzzo
- Basilicata
- Calabria
- Campania
- Emilia-Romagna
- Friuli-Venezia Giulia
- Lazio
- Liguria
- Lombardia
- Marche
- Molise

Next

Let us communicate with you

Notifications allow Immuni to alert you quickly should the need arise.

[Find out more](#)

Allow

Which province do you live in?

Select the province where you live to help the National Health Service provide the best possible assistance.

- Matera
- Potenza



Enable COVID-19 exposure notifications

Immuni uses Bluetooth Low Energy to log contact with other users so that it can inform you if you have been exposed to the virus. You can temporarily disable the service from the home screen.

Select 'Enable' in the pop-up that appears below

Enable COVID-19 Exposure Logging and Notifications

Your iPhone can securely collect and share random IDs with nearby devices. The app can use these IDs to notify you if you may have been exposed to COVID-19. The date, duration and signal strength of an exposure will be shared with "Immuni".

Enable

Turn on Bluetooth

Immuni uses Bluetooth Low Energy to log your contact with other users and to enable COVID-19 exposure notifications.

To turn on Bluetooth

1. Go to the Control Centre. Depending on your device, either swipe down from the top right corner, or up from the bottom of the screen.

2. Turn on Bluetooth

Bluetooth

How the app works

4 N 7 J 0 G

Immuni assigns a random code to each phone

The code is generated randomly and does not contain information about your device, let alone about you. It also changes several times an hour to ensure your privacy is protected.

3 N 7 J F G P 2 6 N B C

How the app works

Phones that come into contact exchange their random codes

When you come into contact with another Immuni user, the devices exchange their codes via Bluetooth Low Energy. That's how the app can keep track of the contact without knowing your identities or where you came into contact.



Users who test positive can choose if they want to share their random codes

Users who have tested positive for the virus can upload to a server the random codes that their devices have sent out over the previous days, making them available to other users. This process is carried out with the assistance of the healthcare operator who informs you that your swab has tested positive.

How the app works



Each phone checks if it has previously encountered any of the shared codes

Immuni periodically checks the codes on the server and compares them with those saved on your device. This allows it to determine if you have been exposed to a potential infection risk.



The user is notified if there is a

How the app works

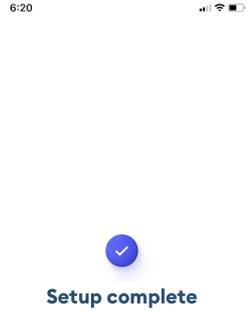
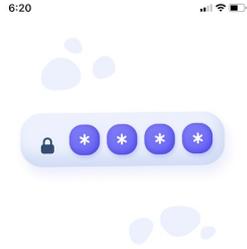
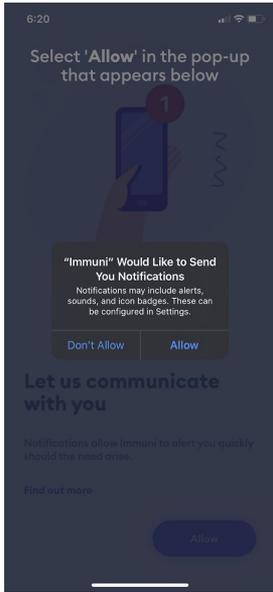
Each phone checks if it has previously encountered any of the shared codes

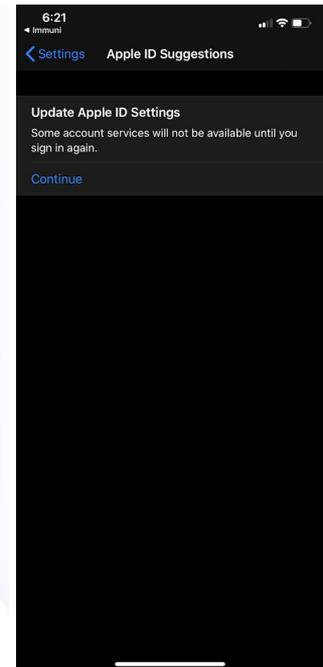
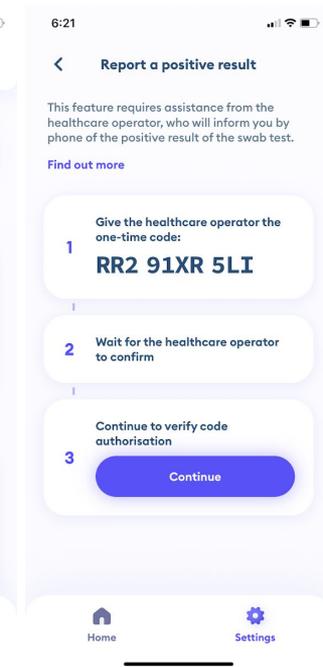
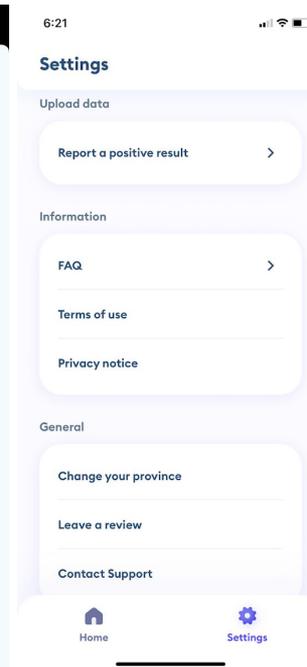
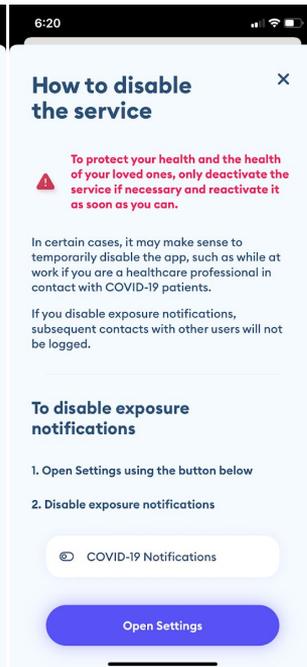
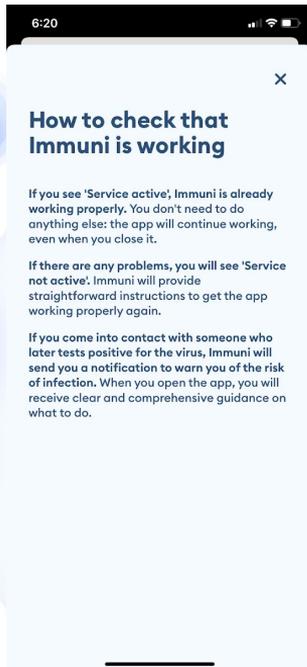
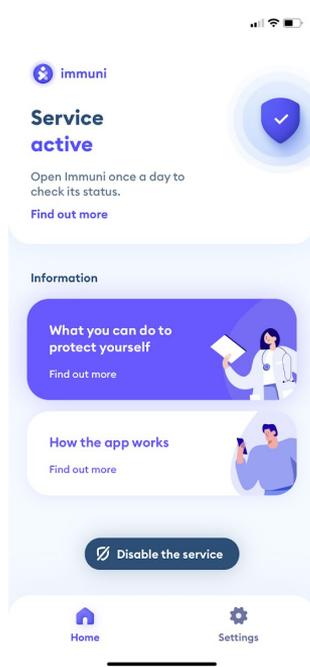
Immuni periodically checks the codes on the server and compares them with those saved on your device. This allows it to determine if you have been exposed to a potential infection risk.



The user is notified if there is a positive match

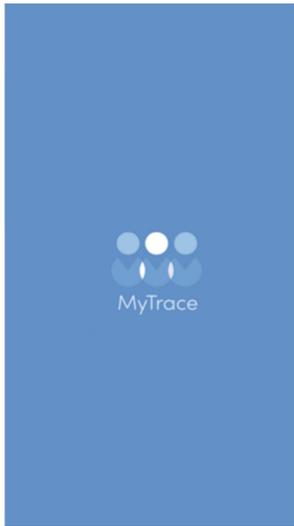
If you've been in contact with a positive user, Immuni notifies you and tells you what to do. It does all this without ever knowing where you've been and who you've met. Your privacy is safe.





Malaysia

MyTrace



Bagaimana MyTrace berfungsi?

Dengan menggunakan aplikasi ini, anda akan membantu KKM untuk mengesan kontak yang berada dekat dengan pesakit COVID19.

Data kontak disimpan di peranti anda dan KKM akan meminta persetujuan anda agar data anda boleh digunakan untuk tujuan pengesanan.

How MyTrace works?

By using the app, you will help the MOH to trace persons that are in close contact with a COVID19 patient

Register

Device Status



Terima Kasih

kerana terus menggunakan MyTrace. Dengan terus menggunakan aplikasi ini, anda akan membantu KKM memutuskan rantaian Covid-19.

Thank You

for using MyTrace. By continuing to use the app, you will help the MOH to break the Covid-19 chain.

Close



Bagaimana MyTrace berfungsi?

Dengan menggunakan aplikasi ini, anda akan membantu KKM untuk mengesan kontak yang berada dekat dengan pesakit COVID19.

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Thank You

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Close



<https://play.google.com/store/apps/details?id=my.gov.onegovappstore.mytrace&hl=en>

MYTRACE: A PREVENTIVE COUNTER MEASURE AND CONTACT TRACING APPLICATION FOR COVID-19

Watch later Share



A preventive counter measure and contact tracing application for Covid-19.

MyTrace does not track geolocation details.

This means that users' private data is not stored nor recorded in the application.

MORE VIDEOS

0:02 / 2:32

YouTube

Video: <https://www.mosti.gov.my/web/en/mytrace/#1588521436472-b87ce493-175b>

MANUAL

English Version



PREPARED BY:

Ministry of Science, Technology and Innovation (MOSTI), National Security Council (NSC), Ministry of Health (MOH), Malaysian Administrative Modernisation and Management Planning Unit (MAMPU), Malaysian Institute of Microelectronic Systems (MIMOS) and *Malaysian Global Innovation and Creativity Centre (MaGIC)*; with the International Islamic University Malaysia (IIUM) and Google.



CyberSecurity
MALAYSIA

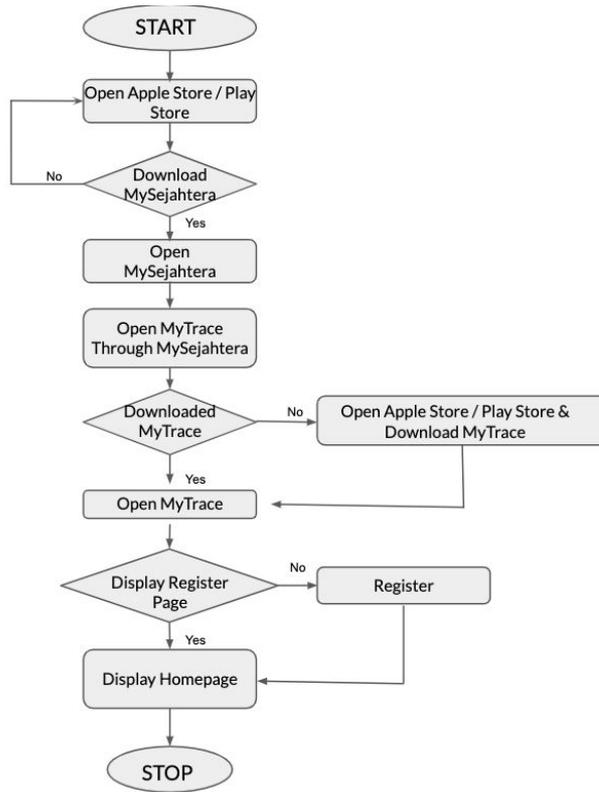
MaGIC
Malaysian Global Innovation & Creativity Centre

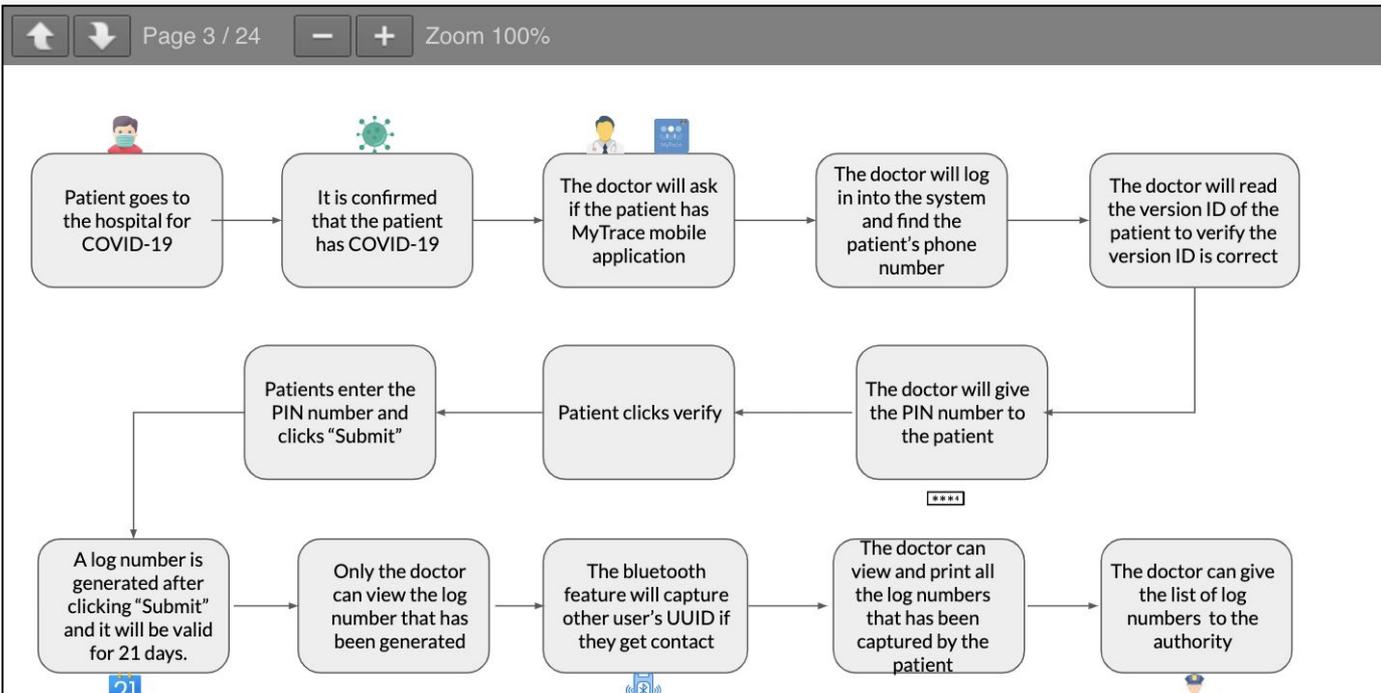


Google

<https://www.mosti.gov.my/web/en/mytrace/#1588521061765-2930e986-9778>

FLOWCHART





What is the difference between MyTrace and MySejahtera?

Both apps - MySejahtera & MyTrace – are pandemic in Malaysia. MySejahtera allows Health (MOH) to monitor users' health con MyTrace further complements MySejahtera with the COVID-19 positive patients.

Doctor shouldn't be looking up someone's phone number in the system, the doctor should give the patient a PIN that's not tied to any details about the patient

now ⓘ

MyTrace : Android - Registration



Splash screen



Click "Daftar/Register"



Select Language



Register phone number

MyTrace : Android - Registration



Check SMS for OTP

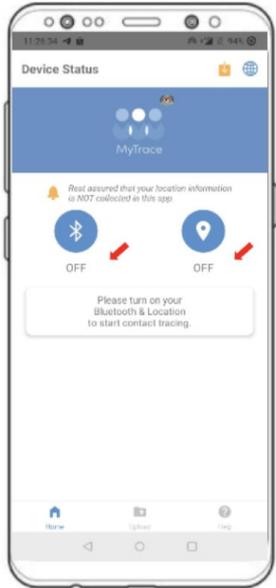


Fill in OTP and click "Submit"

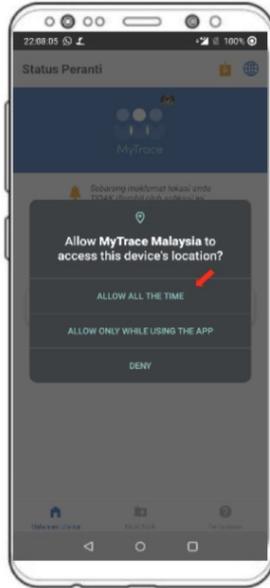


Click "Close"

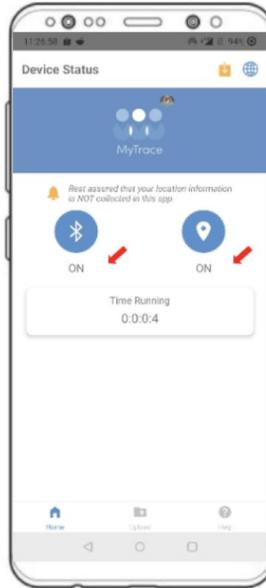
MyTrace : Android - Turn On Bluetooth



The bluetooth and location is off at home page

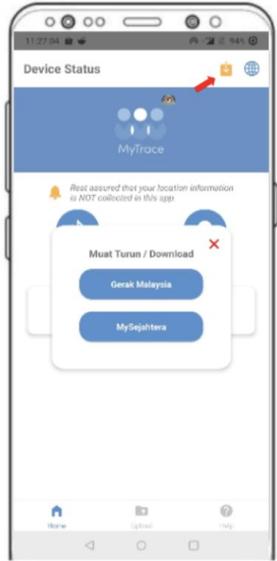


Click "ALLOW ALL THE TIME"

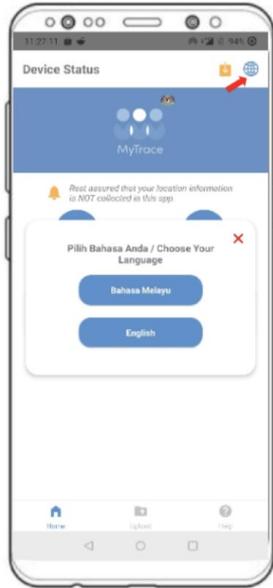


Turn on "Bluetooth" & "Location"

MyTrace : Android - Download & Change Language



Click the download button to download Gerak Malaysia and MySejahtera

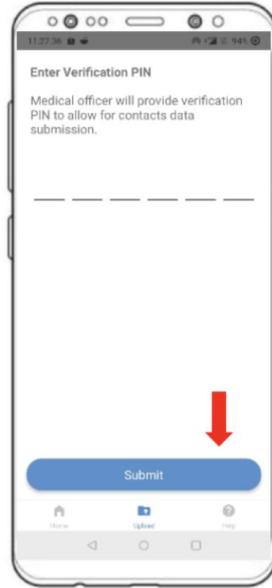


Click "Globe" icon to change language

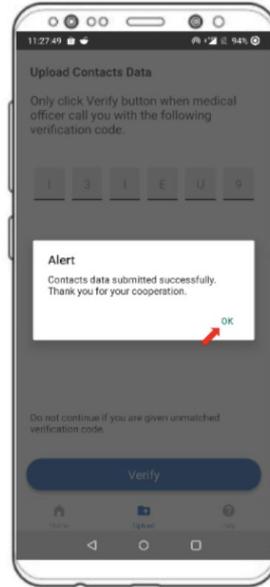
MyTrace : Android - Upload Contact Data



Click button "Verify" if the verification code matched

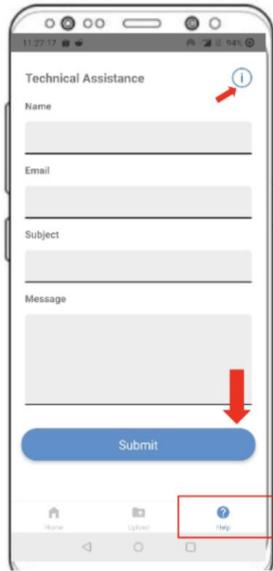


Enter PIN number and click "Submit"

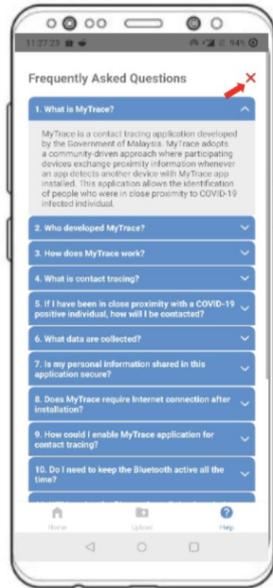


Click "OK"

MyTrace : Android - Technical Assistance



1. Fill in the form and click "Submit"
2. Click button "?" for FAQ



Click button "X" to close FAQ

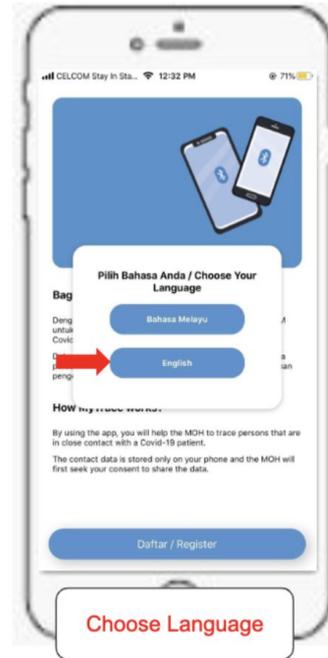
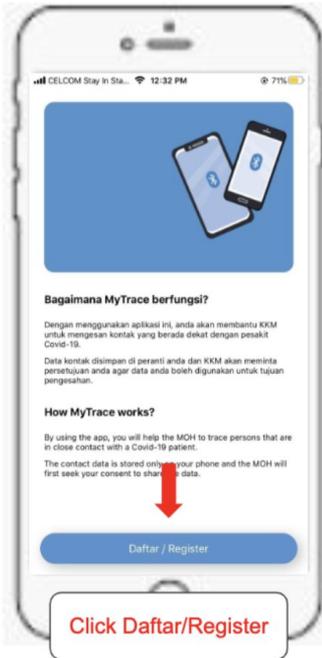
1. Click "Help" tab for technical assistance
2. State the problem briefly to ease the process of solving the problem

How it works : MyTrace on iOS

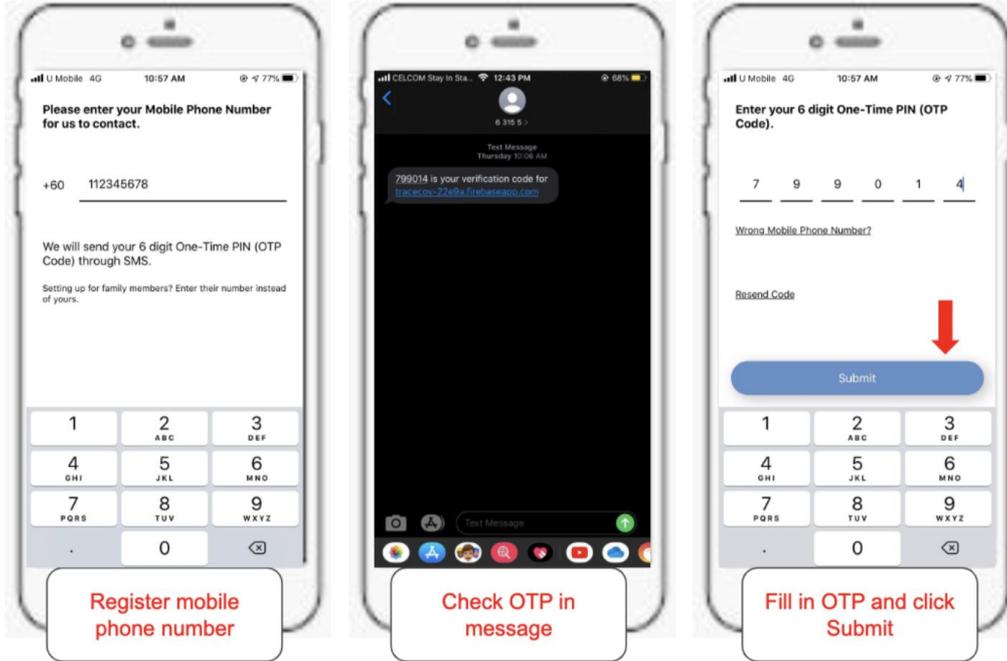


MANUAL MYTRACE

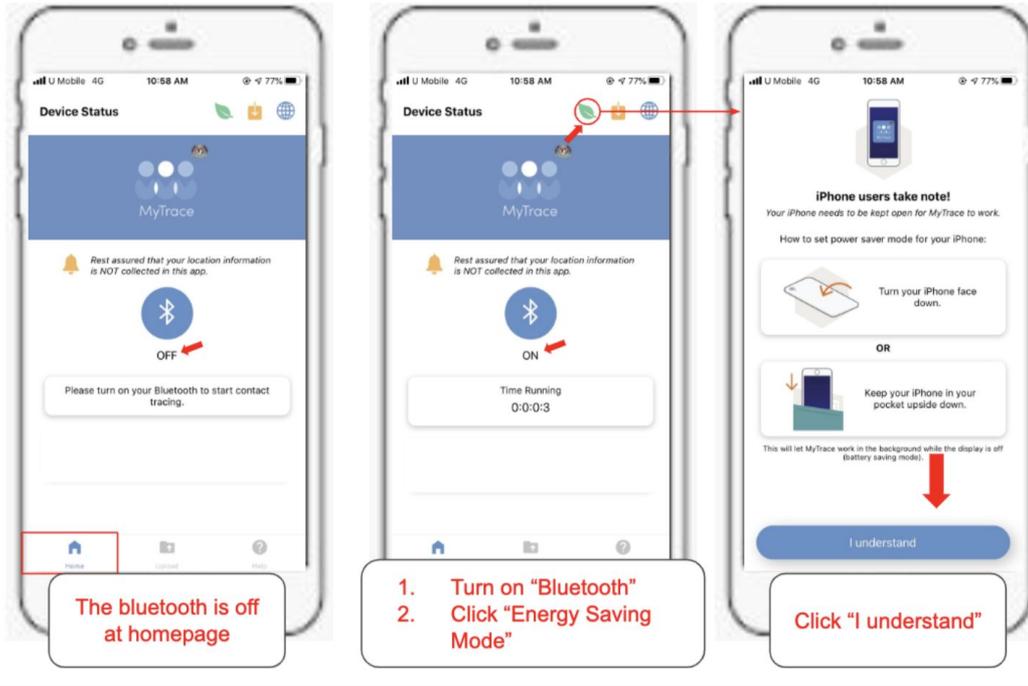
MyTrace : iOS - Registration



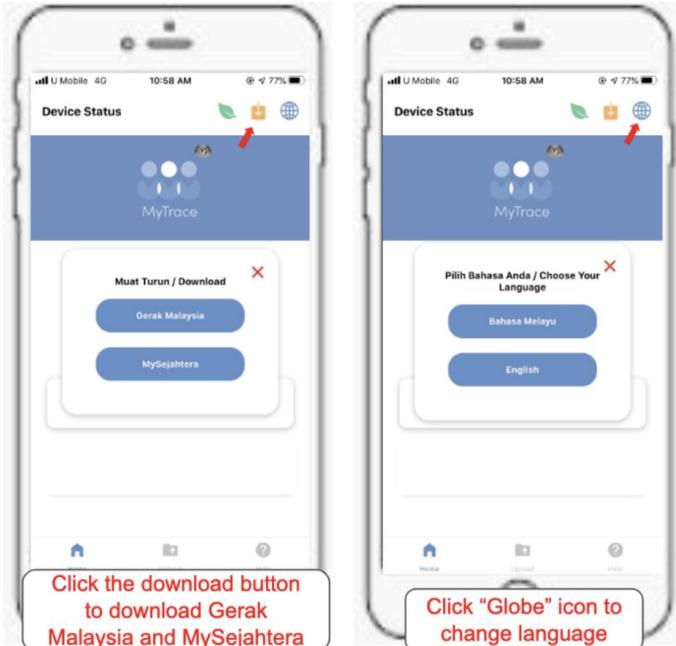
MyTrace : iOS - Registration



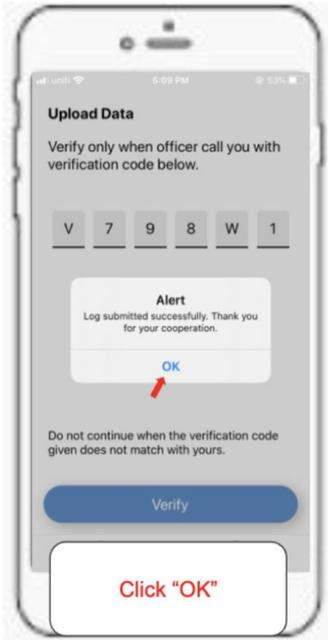
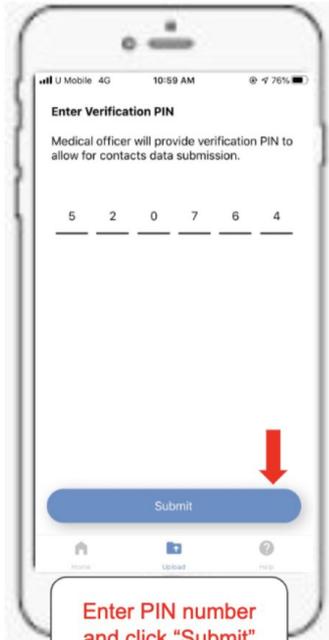
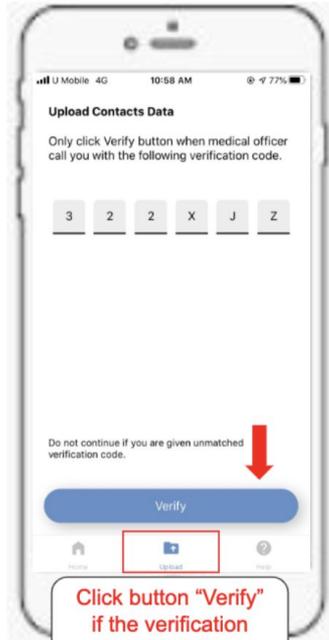
MyTrace : iOS - Turn On Bluetooth & Power Saver Mode



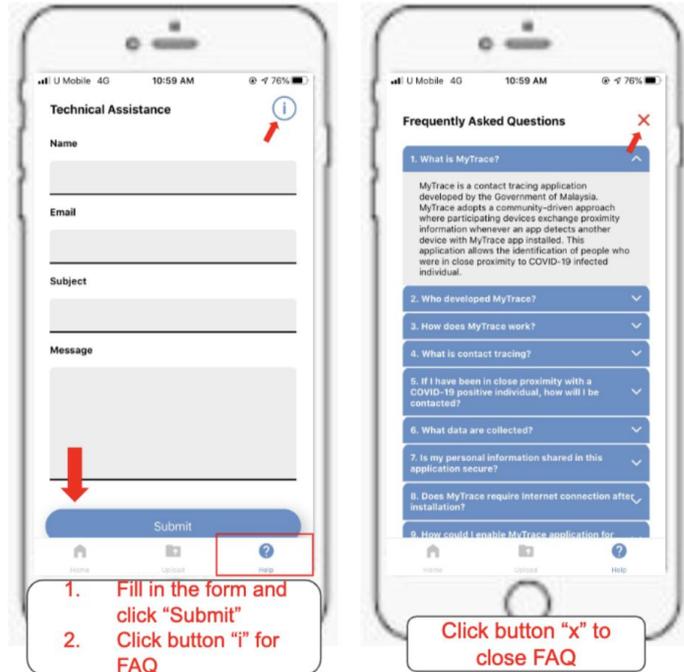
MyTrace : iOS - Download & Change Language



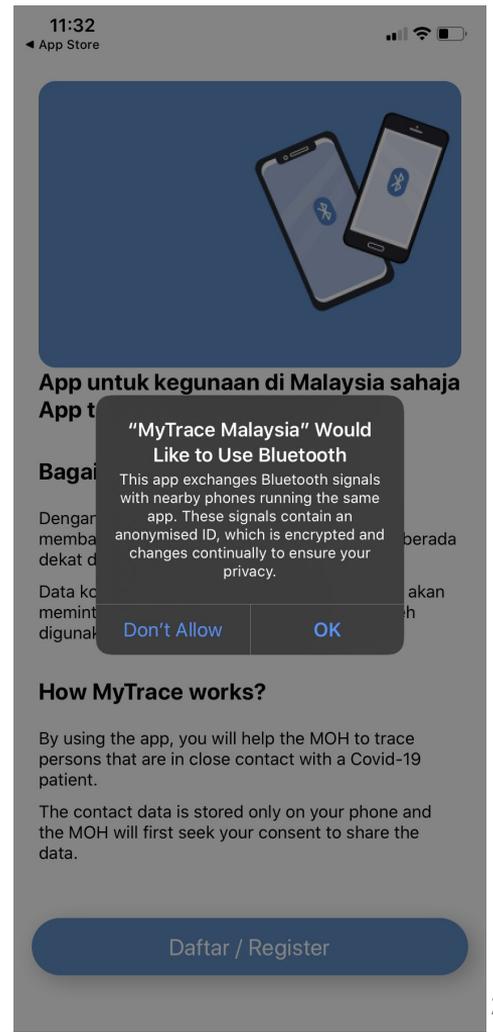
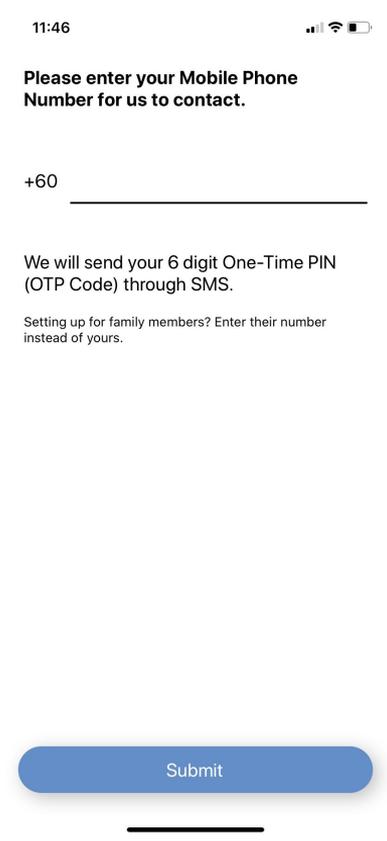
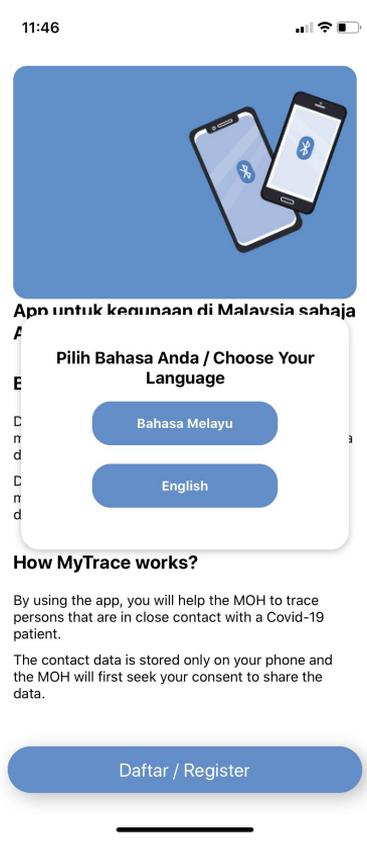
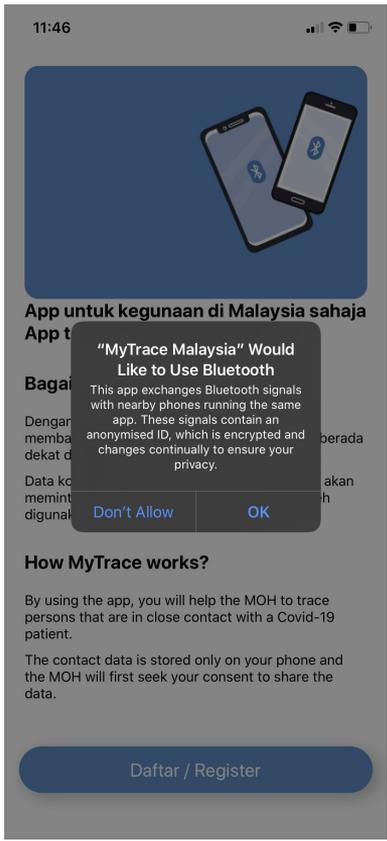
MyTrace : iOS - Upload Contact Data



MyTrace : iOS - Technical Assistance



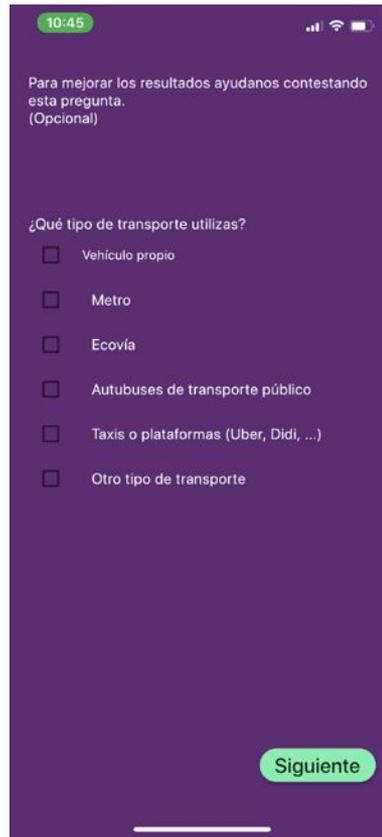
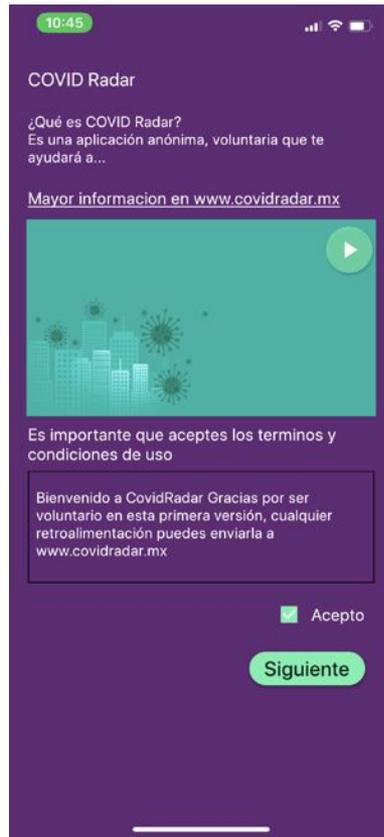
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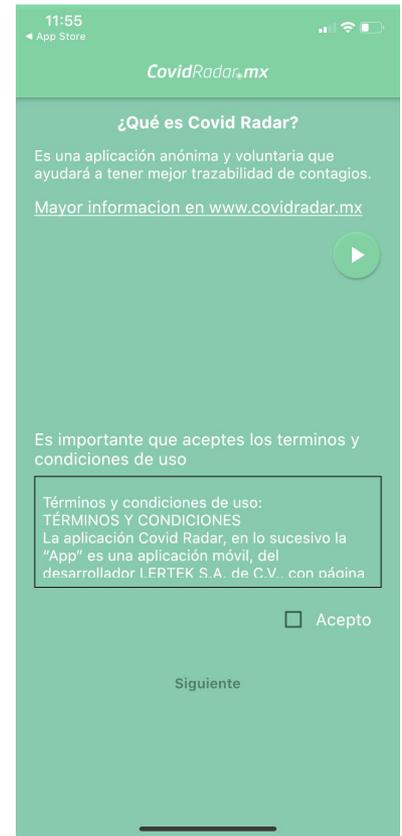
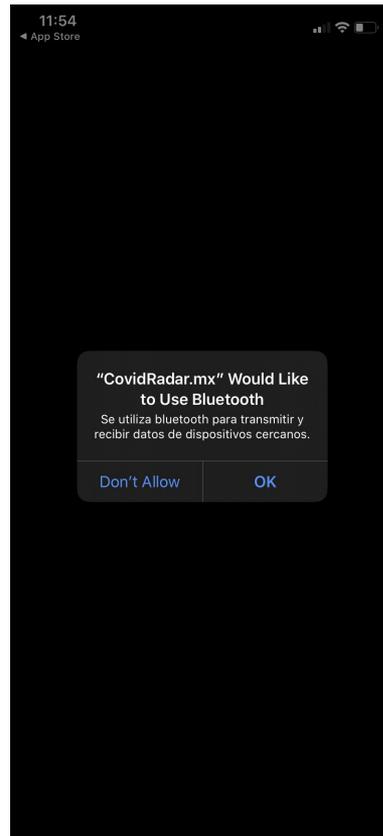
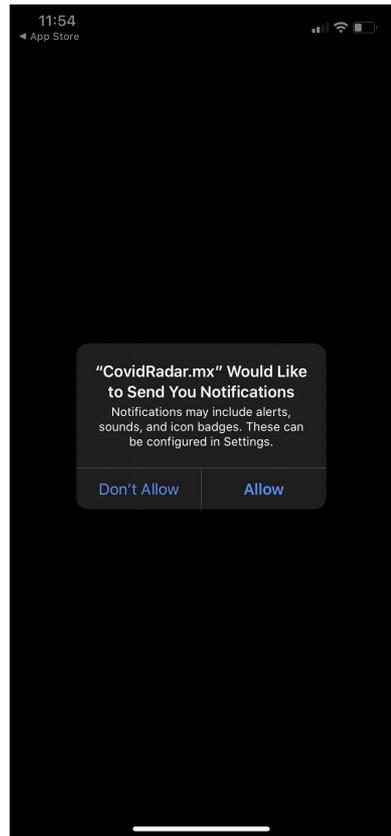
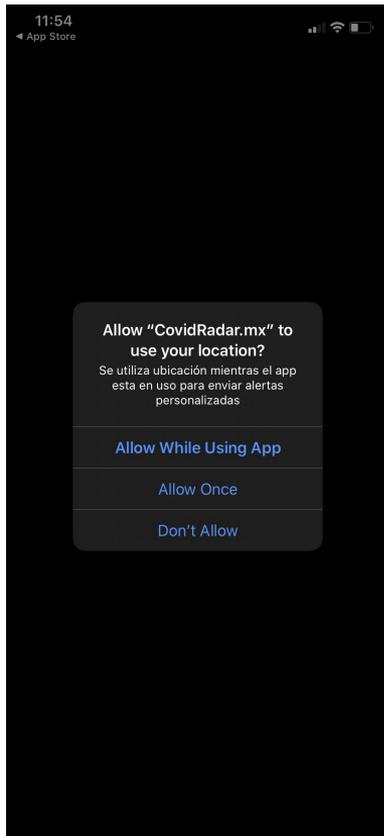
iOS app accessed 07/02/20
 No version on iOS. Google Play version 1.0.30.

Mexico

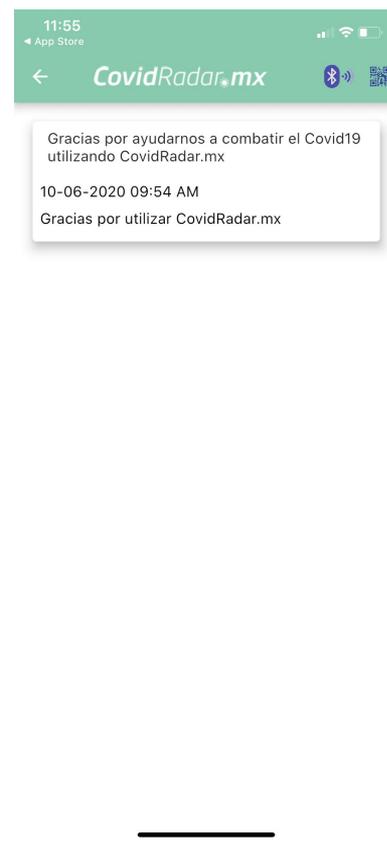
CovidRadar.mx



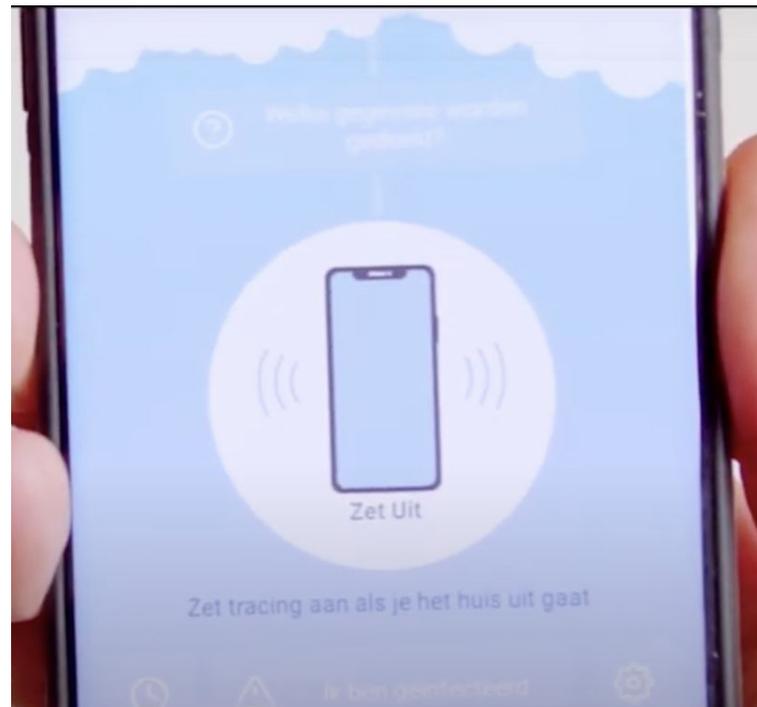
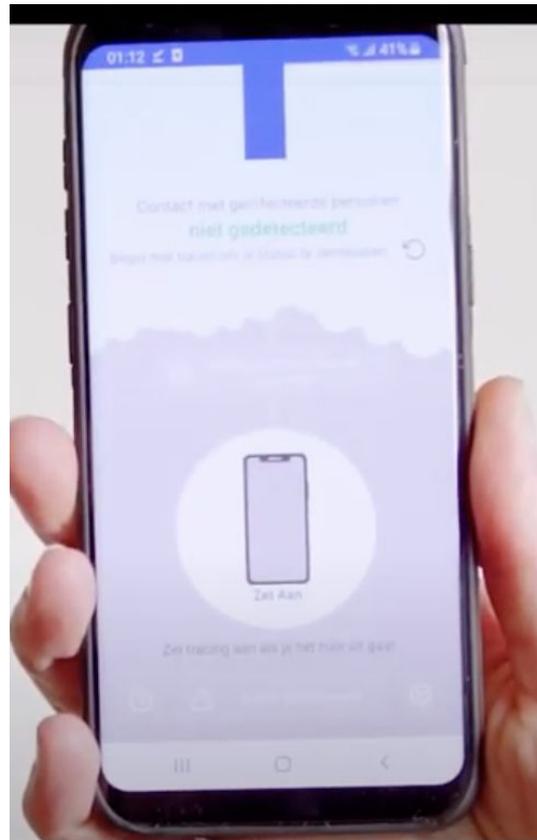
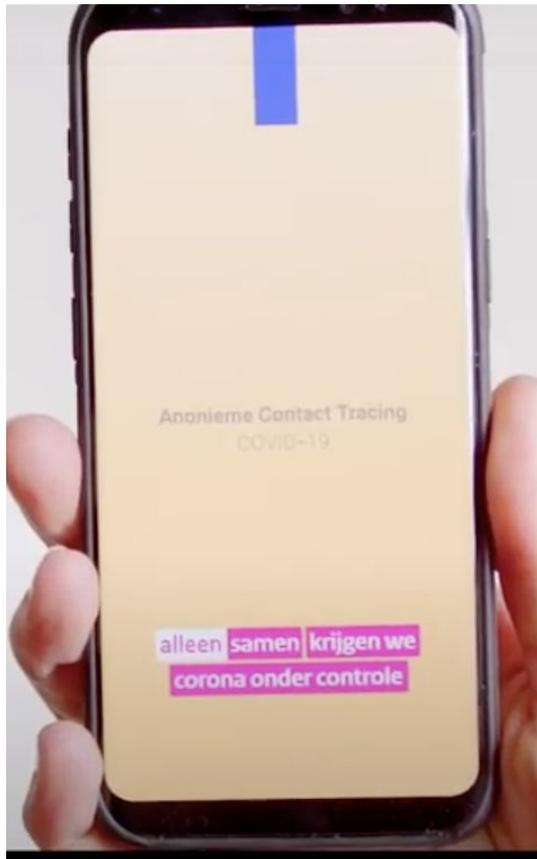
Government of the State of Nuevo León
CovidRadar.mx



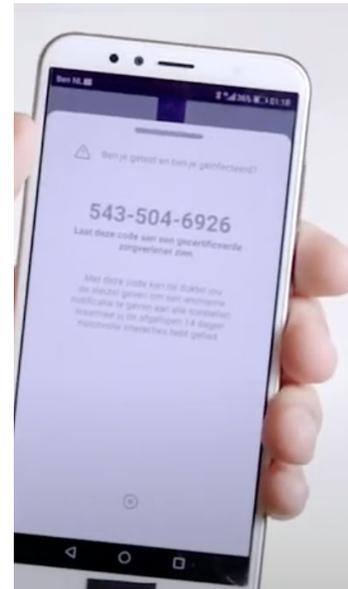
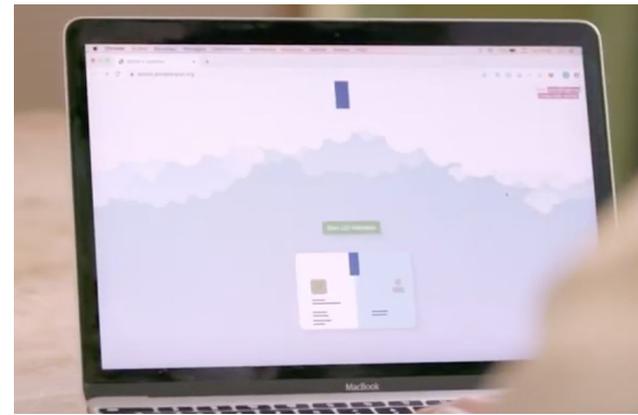
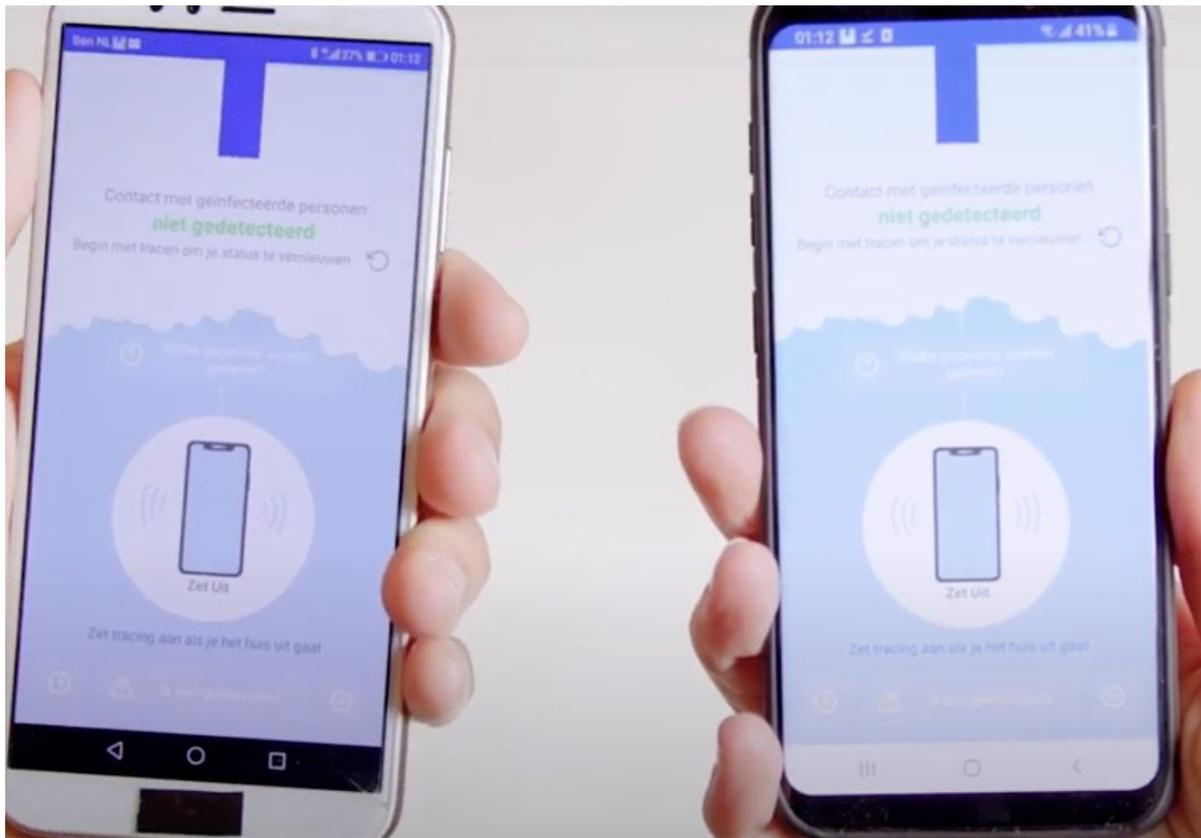
iOS version 1.0.1, accessed 07/02/20



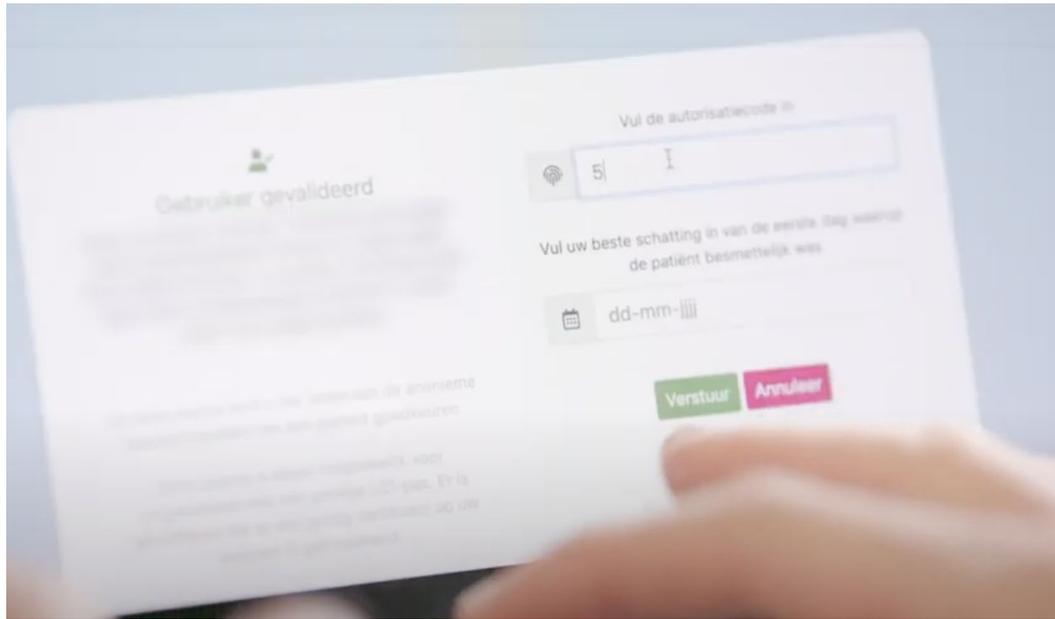
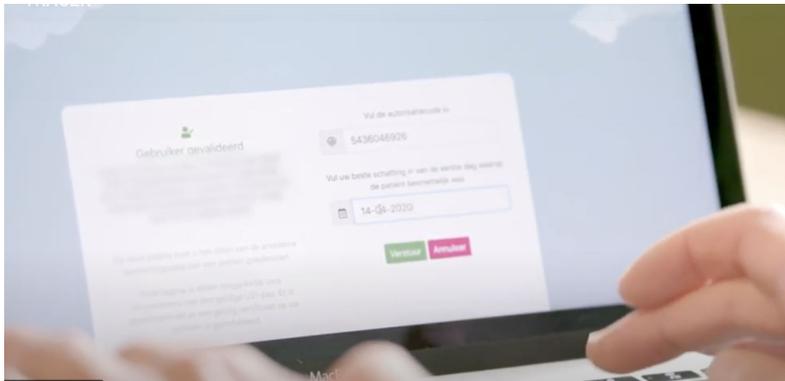
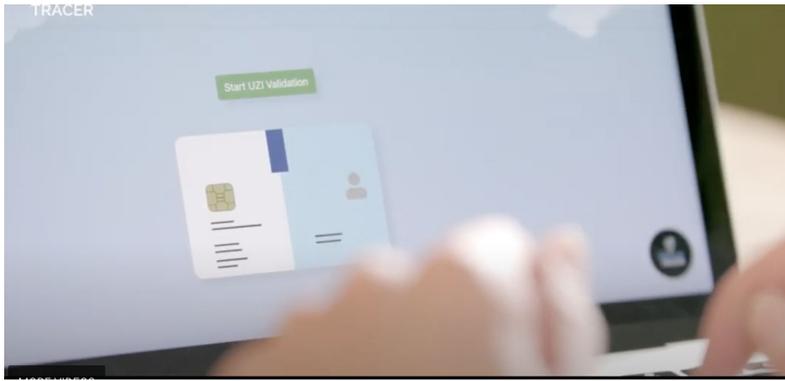
Netherlands PrivateTracer



<https://www.privatetracer.org/>



<https://www.privatetracer.org/>



Contact met geïnfecteerde personen

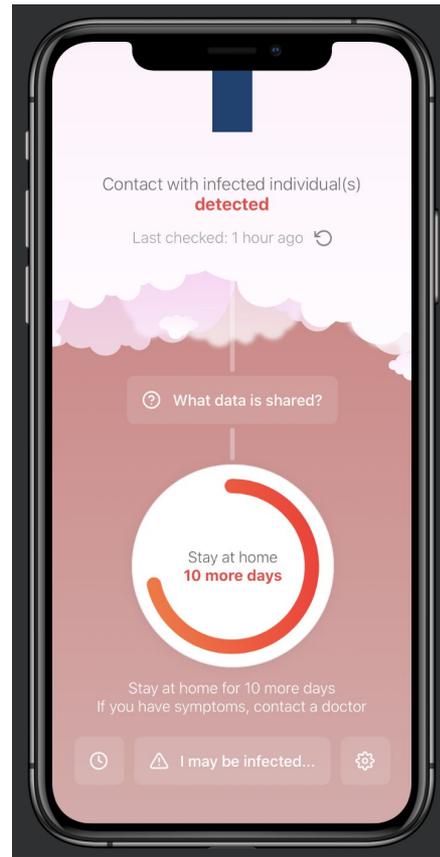
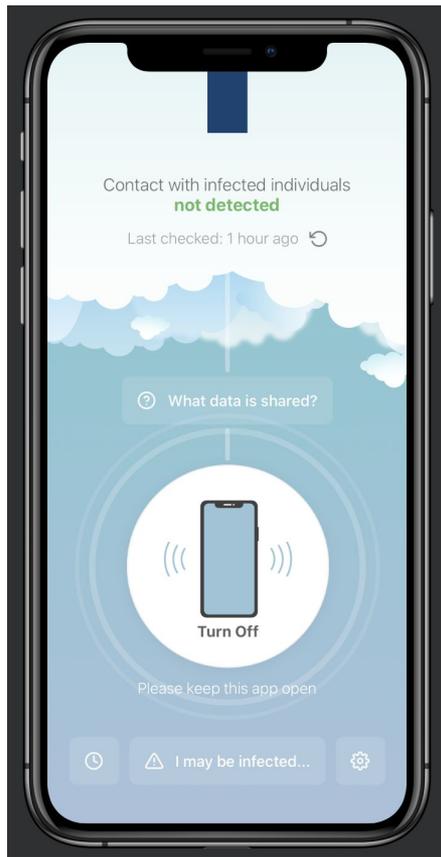
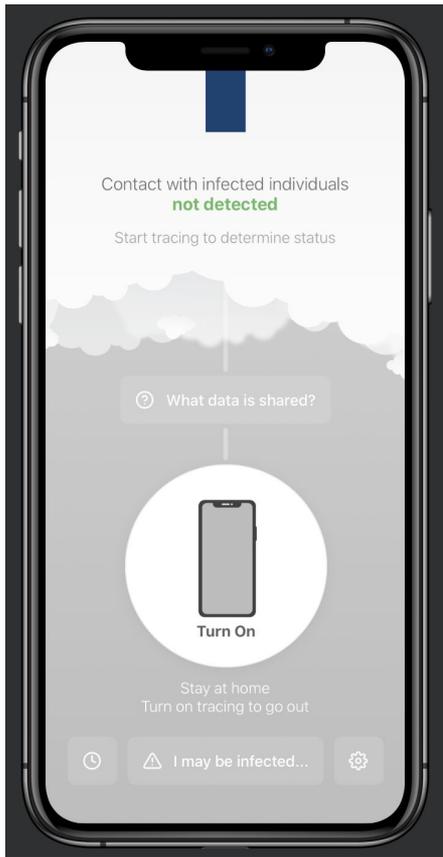
gedetecteerd

Begin met tracen om je status te vernieuwen ↻

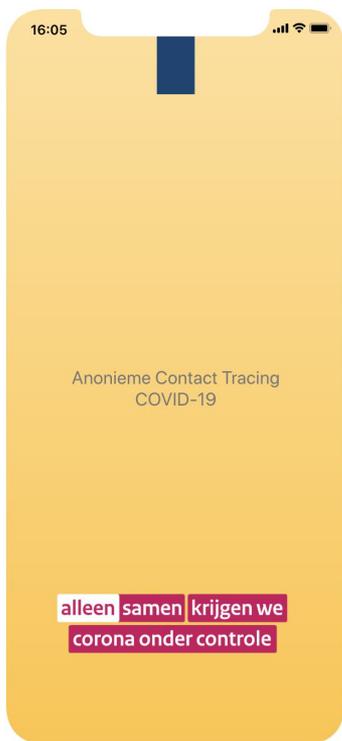


Welke gegevens worden
gedeeld?

Blijf nog
14 dagen thuis



<https://gitlab.com/PrivateTracer/ux-design>

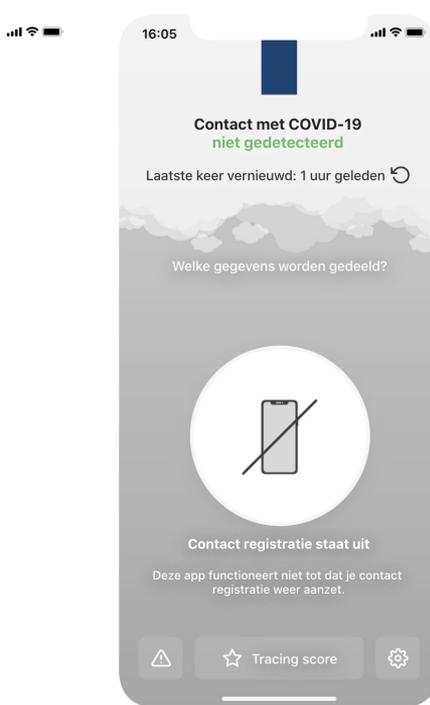


16:05

Welkom
Uitleg

alleen samen krijgen we
corona onder controle

<https://private-tracer-v0-5-9.now.sh/>



16:05

not detected

Last updated: 1 hour ago.

Which data is shared?

Contact registration is off

This app will not function until you switch contact registration back on.



16:06

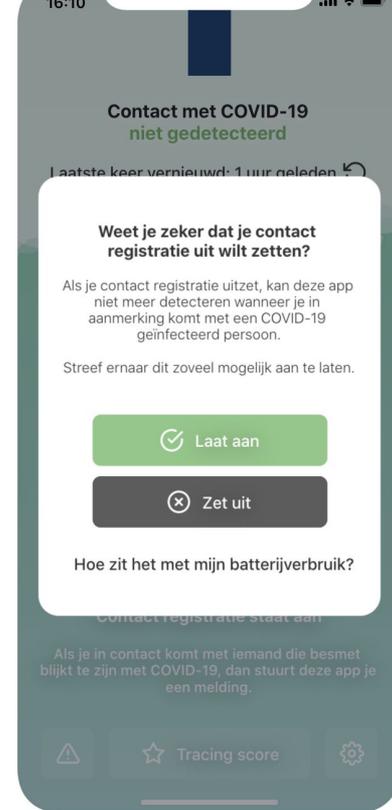
not detected

Last updated: 1 hour ago.

Which data is shared?

Contact registration is on.

If you come into contact with someone who turns out to be infected with COVID-19, this app will send you a notification.



are you sure you want to turn off contact registration? If you disable contact registration, this app can no longer detect when you are eligible with a COVID-19 infected person. Strive to leave this as much as possible.



☆ Tracing score



Contact registratie actief: 16 uur
Aantal risicovolle interacties: 8

Zet deze app vaker aan en houd afstand voor een hogere score.)

Afgelopen 2 weken

Afgelopen week

Vandaag

Gisteren

Eergisteren

Alle informatie wordt lokaal op jouw toestel opgeslagen en wordt automatisch na 14 dagen verwijderd.



Button: tracing score



⚙️ Instellingen

Authorisaties

Bluetooth

Batterij optimalisatie

Auto match



Laat de app elke 6 uur automatisch controleren of je risicovolle interacties hebt gehad.

🗑️ Verwijder alle gegevens

Hiermee verwijder je permanent alle data in deze applicatie.

Versie 1.0.0



Button: settings



⚠️ Denk je geïnfecteerd te zijn?

🔄 Genereer code

Genereer een unieke code en laat deze code aan een gecertificeerde zorgverlener zien.

Let op, zodra je een code genereert worden alle interacties die jij heb gehad in de afgelopen 14 dagen naar de centrale server verstuurd. Een zorgverlener kan door middel van jou unieke code jou interacties markeren als risicovol.



Button: hazard icon (!)



<https://private-tracer-v0-5-9.nl>

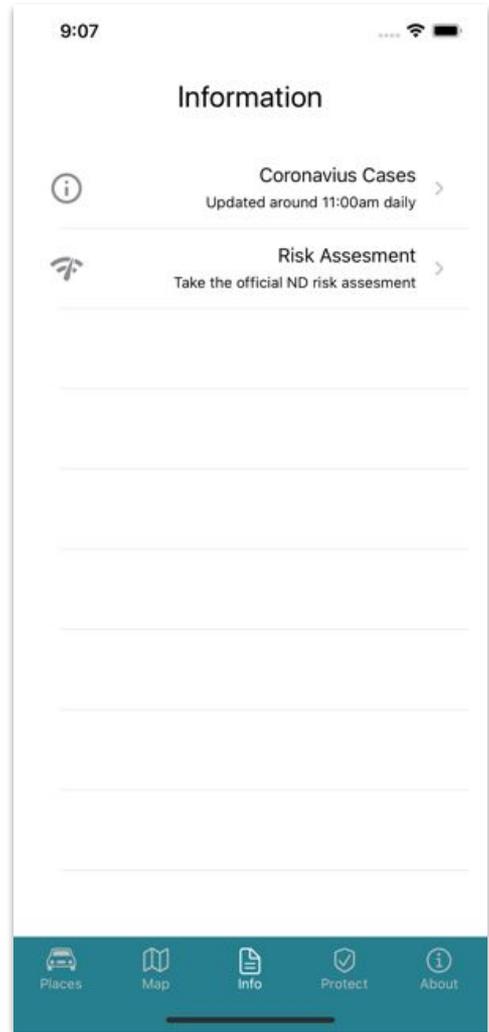
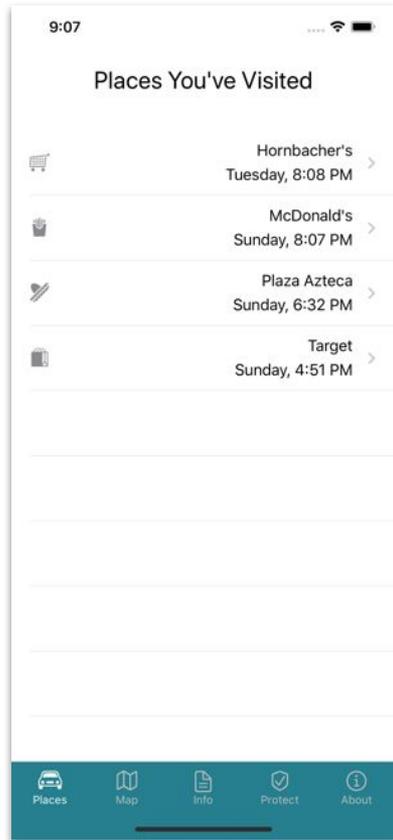
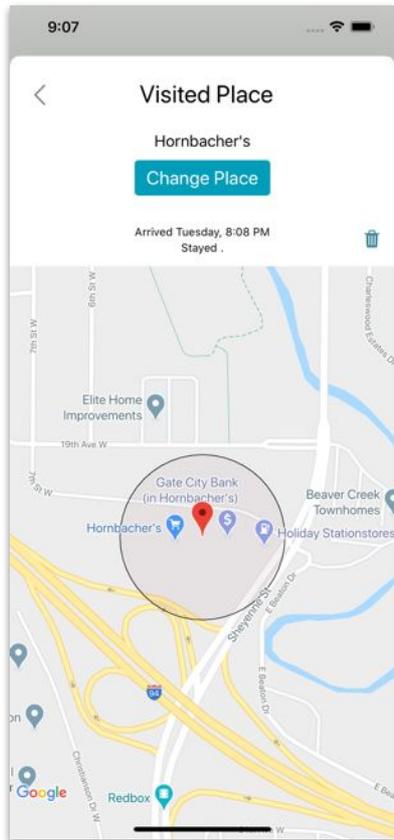
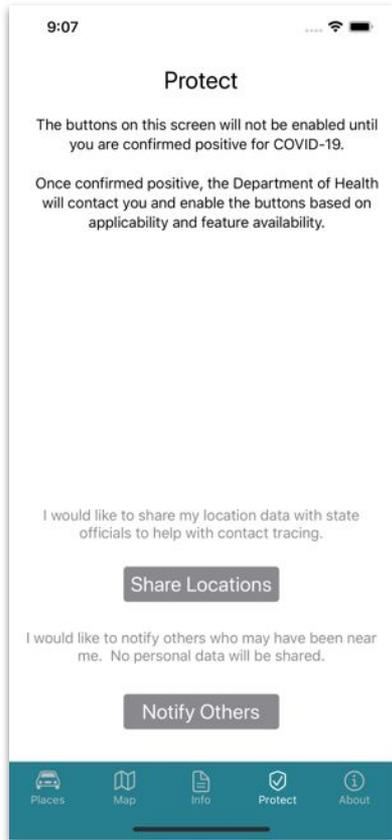
Battery optimization

The last of the app is 6 automatically controlled or there are risk-free interactions.

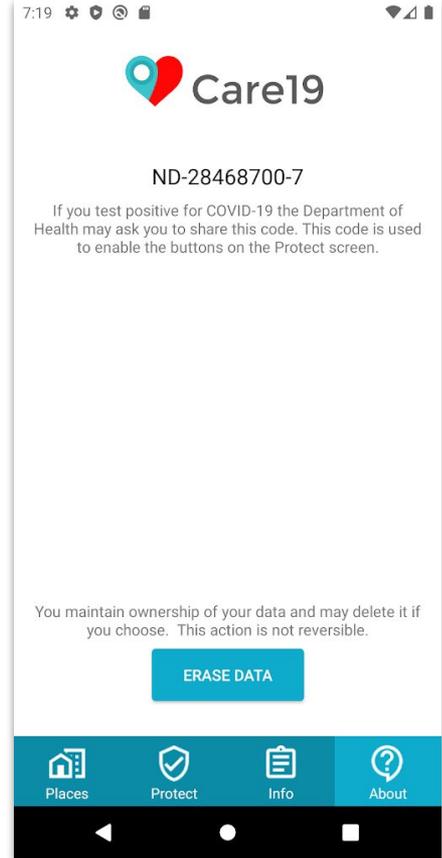
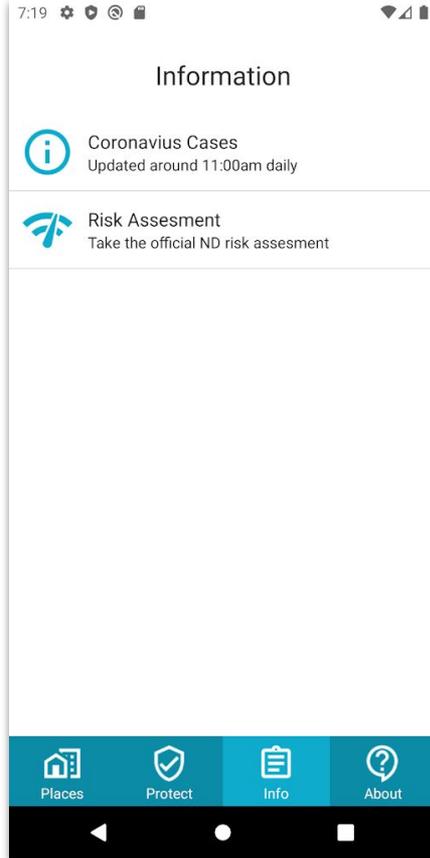
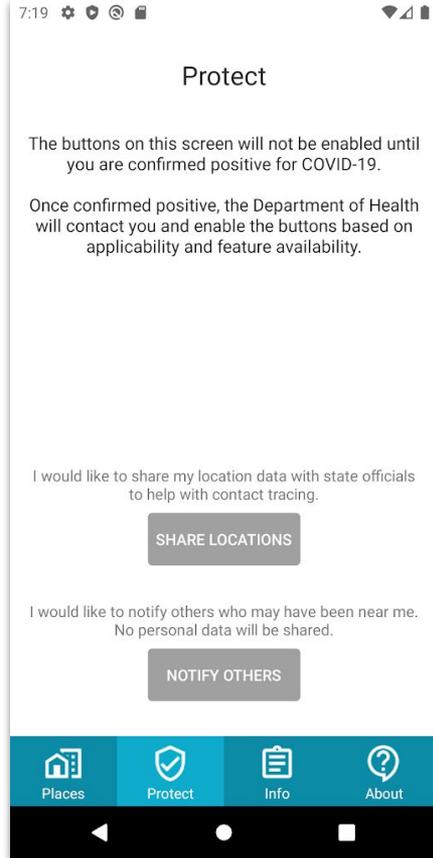
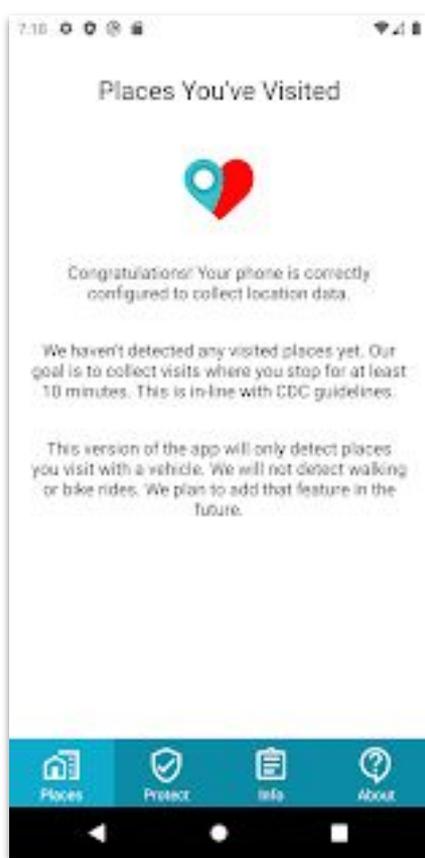
Change all data.

North Dakota - USA

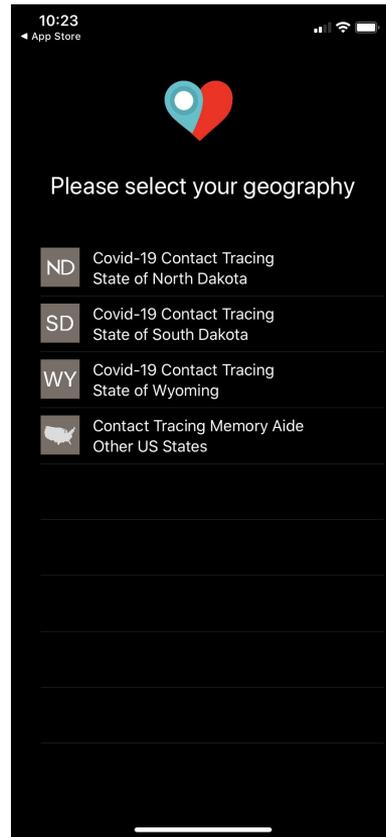
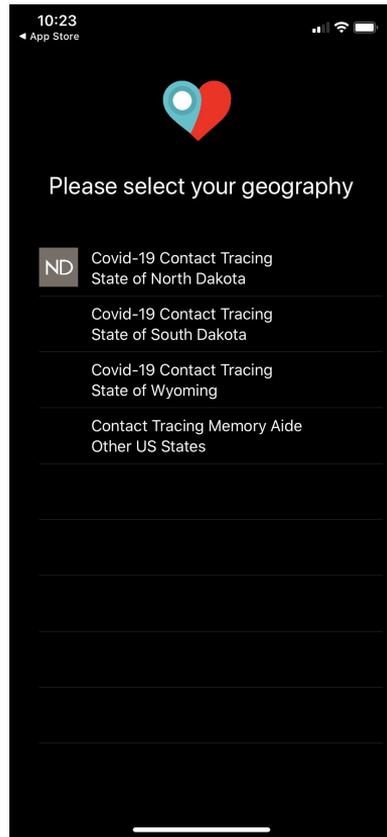
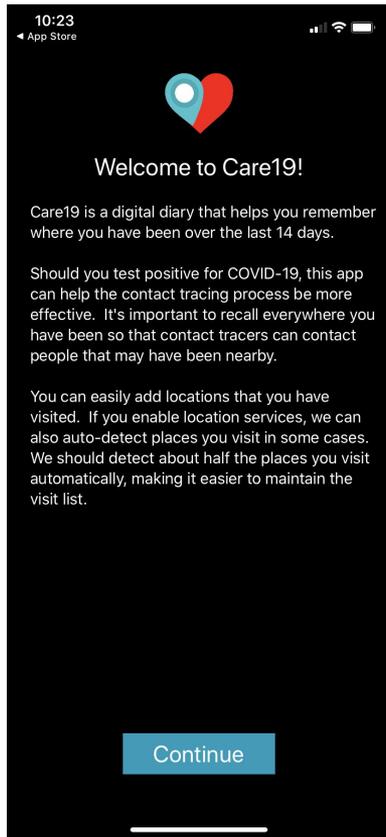
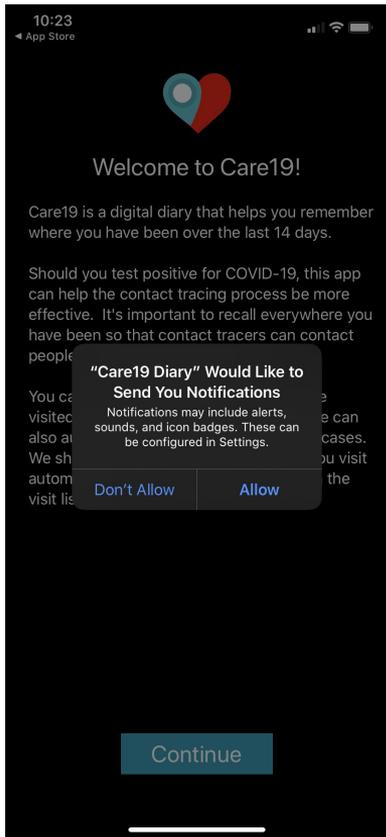
Care 19



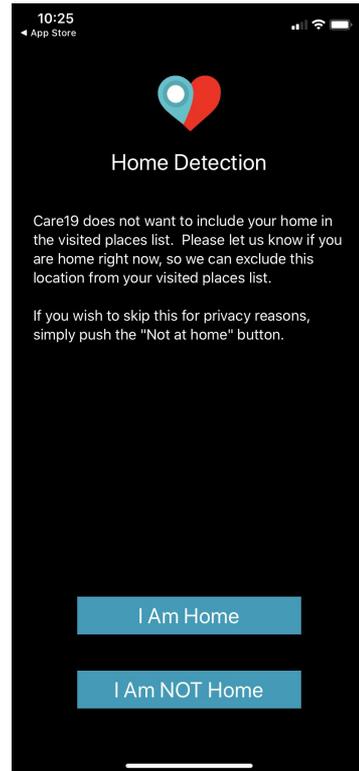
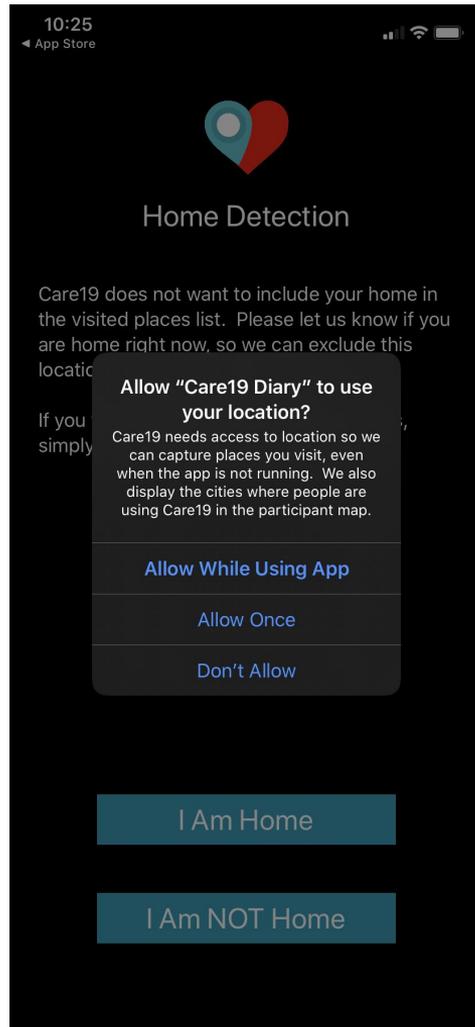
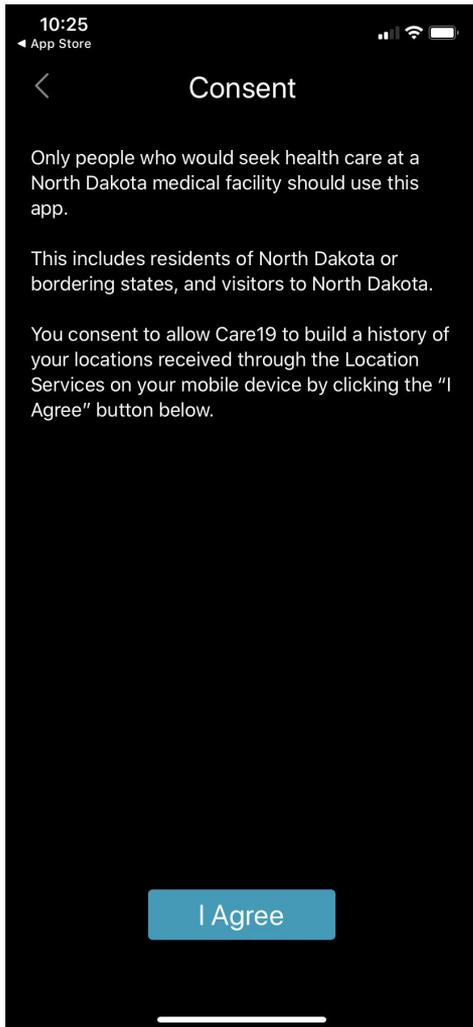
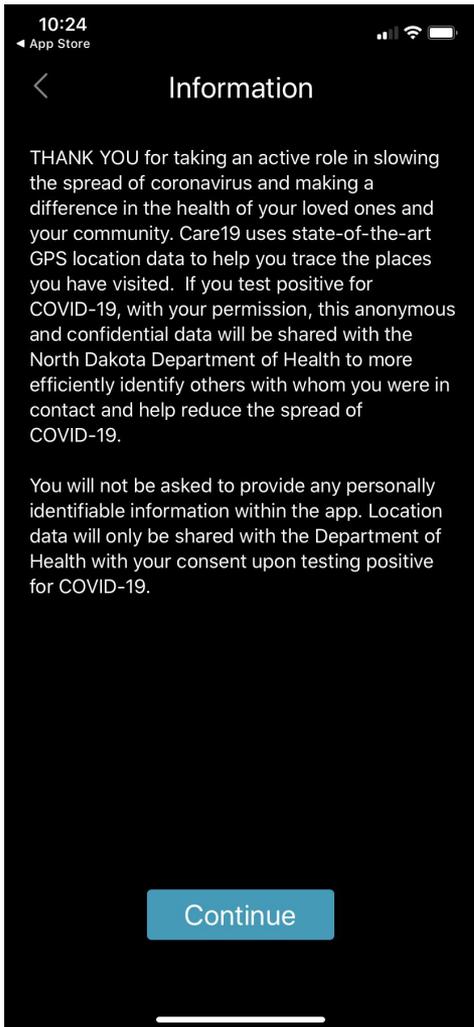
North Dakota
Care19

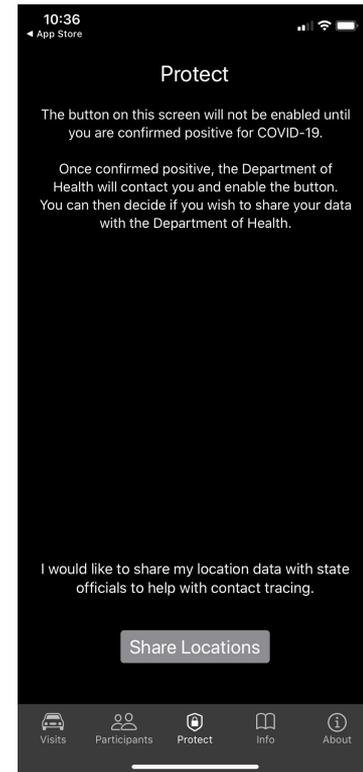
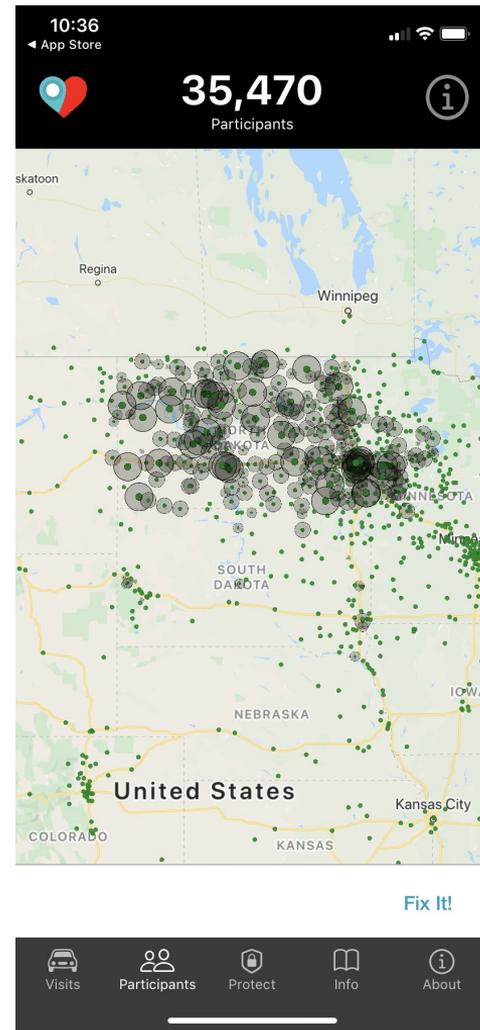
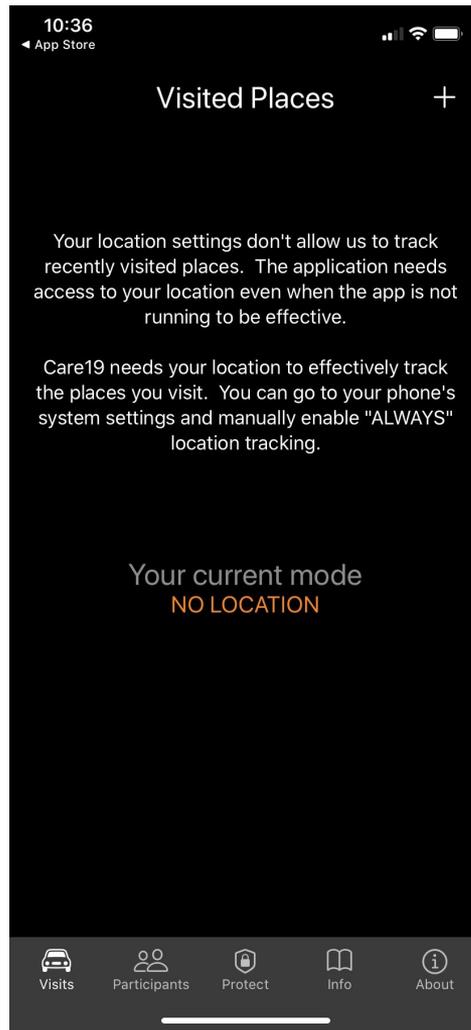
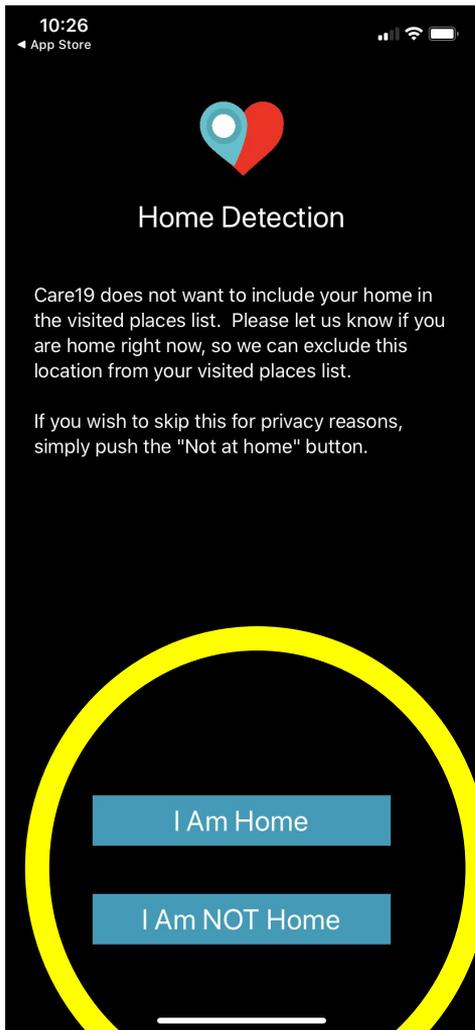


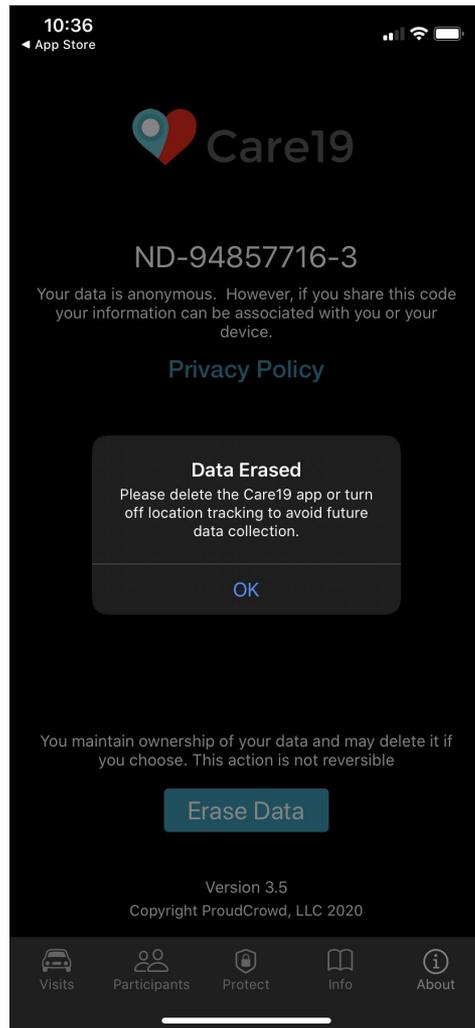
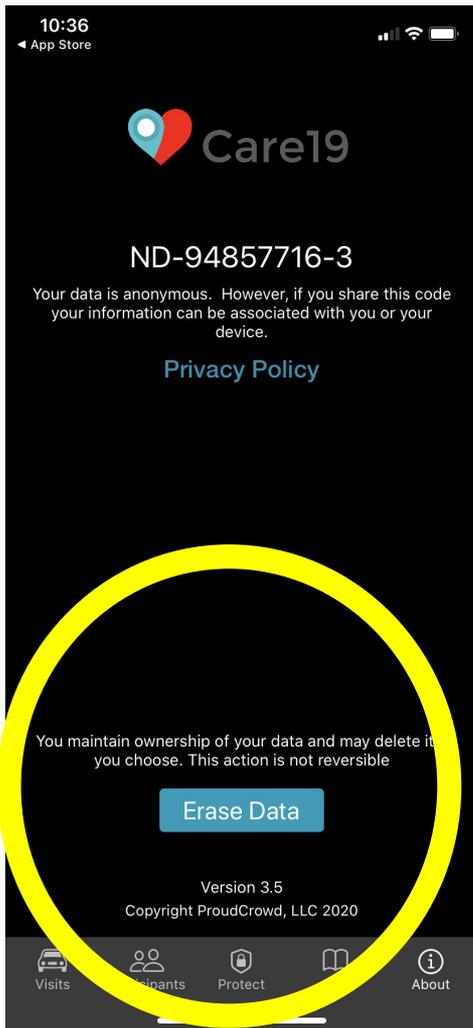
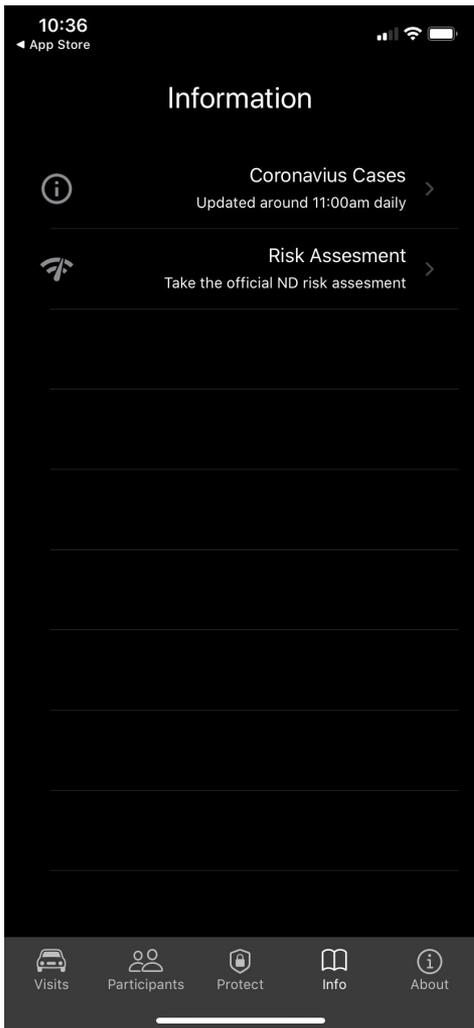
North Dakota
Care19



iOS app version 3.5, access 07/03/20

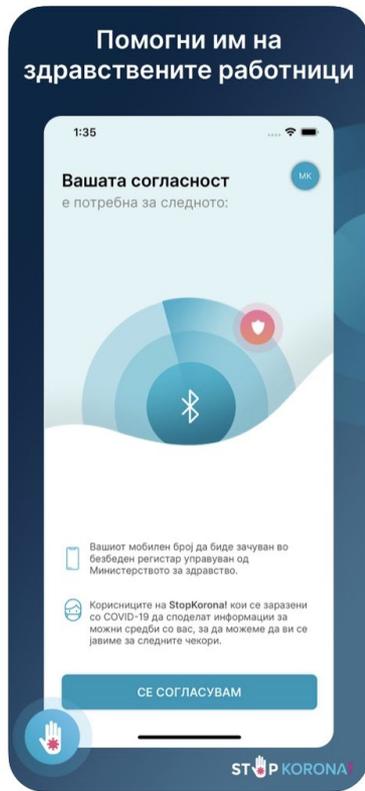






North Macedonia

Stop Korona



North Macedonia
Stop Corona

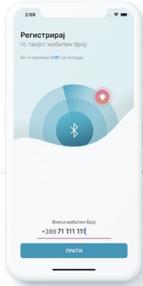
<https://apps.apple.com/mk/app/stopkorona!/id1506641869>

HOW IS StopKorona ACTIVATED !?

To activate the application, follow these simple steps:

1

Sign up by entering your mobile number



2

Enter the code you will receive via SMS



3

Turn on Bluetooth whenever you're on the go



Bluetooth is ON



We use cookies to enable the functionality of the website, but we do not share your information. By continuing to visit, you are accepting the use of cookies.

NOTE

[Privacy Policy](#)

[ACCEPT](#)

<https://stop.koronavirus.gov.mk/>

Sharing data in case you are infected

The application data is shared only at the request of the Ministry of Health. If the user of the application is positive on the COVID-19 test:

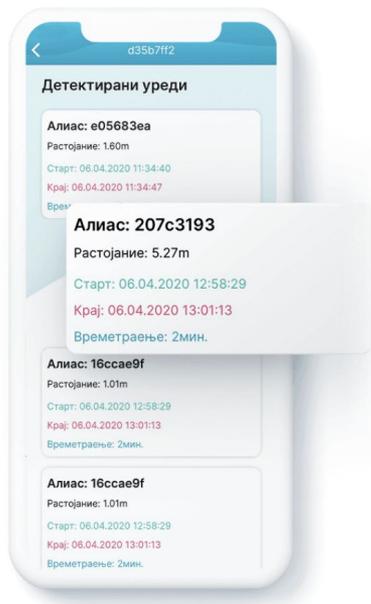
- The Ministry of Health will send an SMS with a COD, in order for the infected person to send the data from the application on a voluntary basis.
- In the StopKorona application! by selecting FIRST DATA, enter the CODE and confirm.
- The officials from the central system will receive the complete list of potentially infected, after which they will take the next steps, in accordance with the procedure, and will have the opportunity to inform them by notification through the system.



<https://stop.koronavirus.gov.mk/>

Phone data near you is stored on your phone

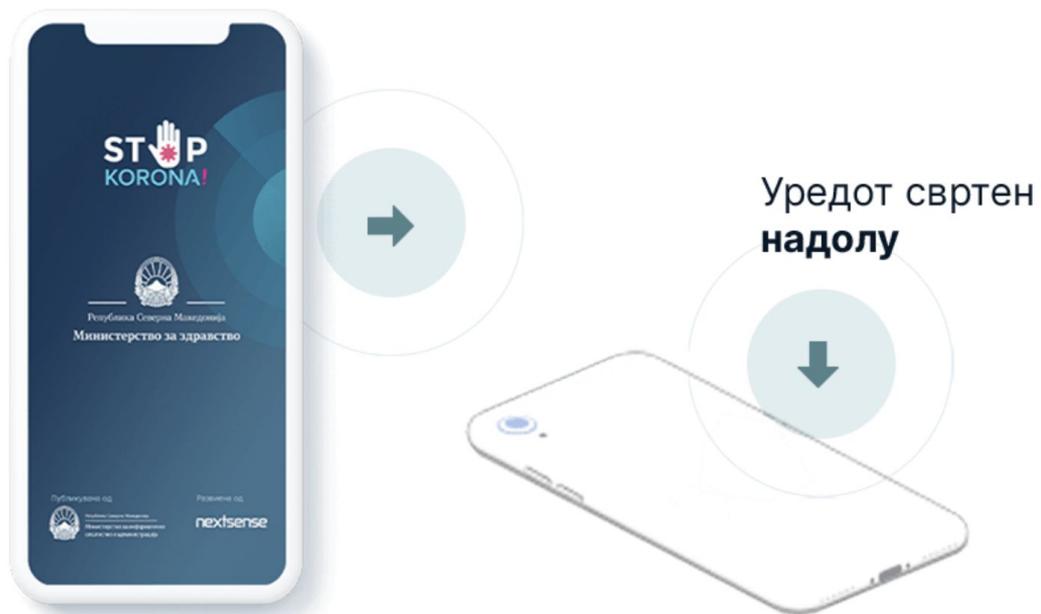
Application code data near you is stored exclusively on your phone. In case the user of the application becomes infected with COVID-19, he independently decides whether to give the Ministry of Health access to his data stored in the mobile phone that does not contain mobile numbers but only codes, which can be decrypted exclusively by the Ministry of Health. The sharing of data collected from the use of this application with the Ministry of Health is in accordance with Article 13 paragraph (2) item 9) of the Law on Personal Data Protection.



<https://stop.koronavirus.gov.mk/>

How does the power saving mode work on iOS devices?

You can activate the power saving mode on your iOS device if you turn your phone down or put it upside down in your pocket. This way StopKorona! it can scan your surroundings, saving your battery.



<https://stop.koronavirus.gov.mk/>

Information on possible virus exposure

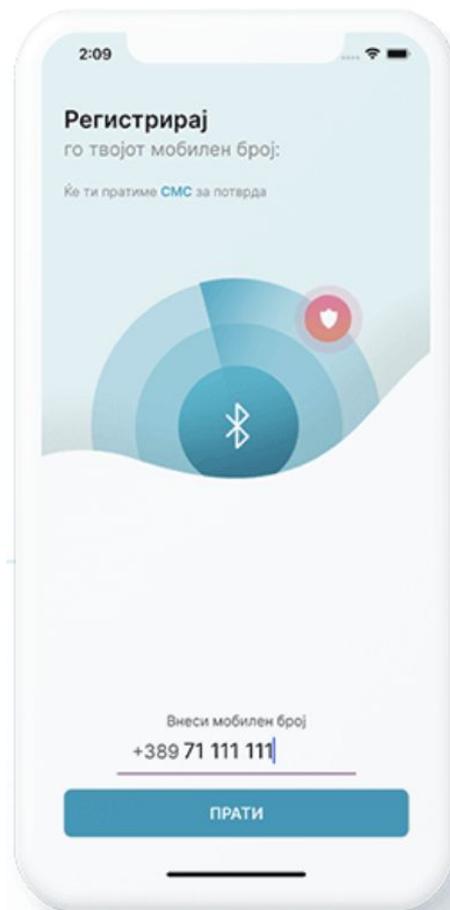


If someone close to you has COVID-19 and shares the data with the Department of Health, you will be notified to take timely measures for self-isolation, testing, and treatment.

Protect your health and that of your loved ones



By activating the application, you will get information about potentially endangering your health faster, and thus you will take isolation measures, thus protecting your family.

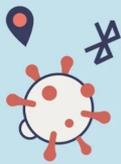


Norway

Smittestop

Hjelp oss bekjempe
koronaviruset

med mobiltelefonen



Vi trenger deg!



Du bruker GPS og
Bluetooth



Vi tar hensyn til
ditt personvern



og varsler deg
tilfelle du har vært
utsatt smittefa



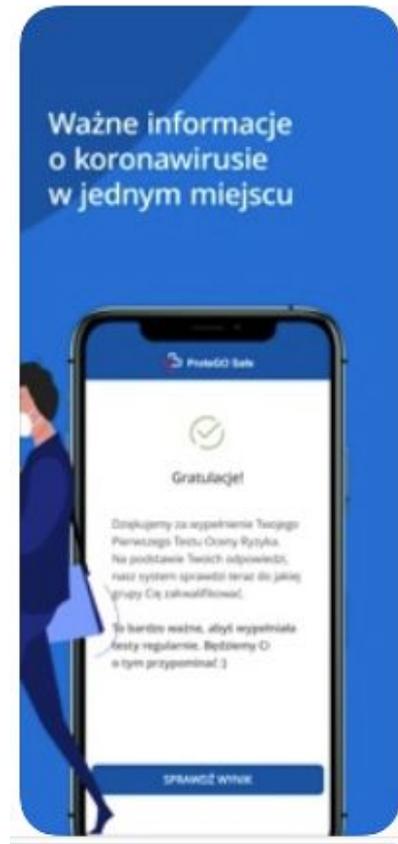
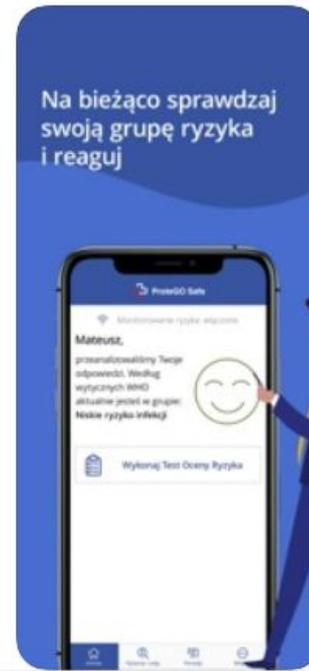
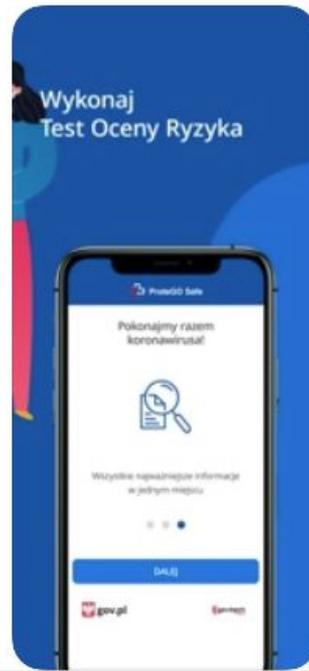
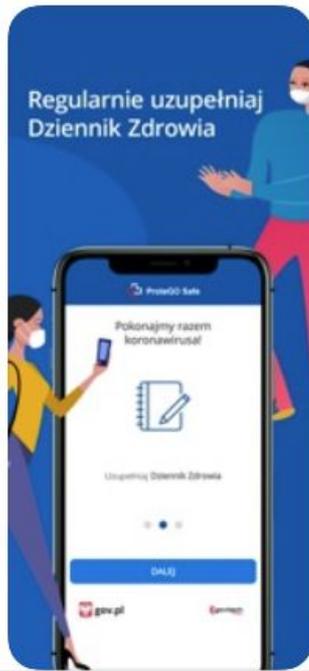
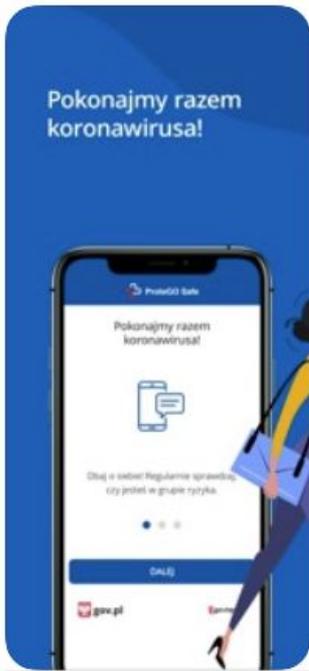
Stopp viruset med
Smittestopp



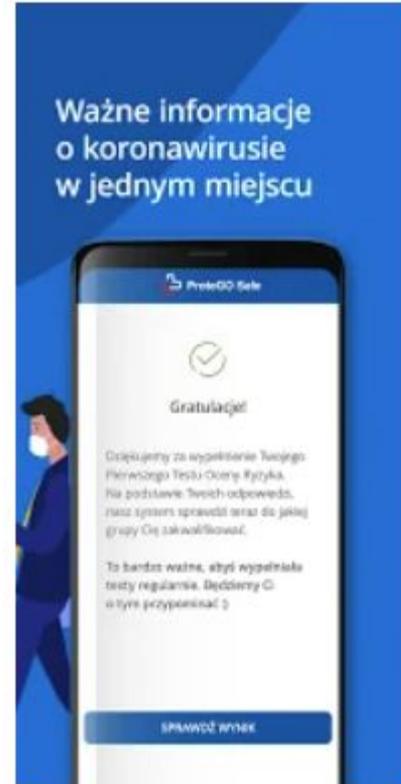
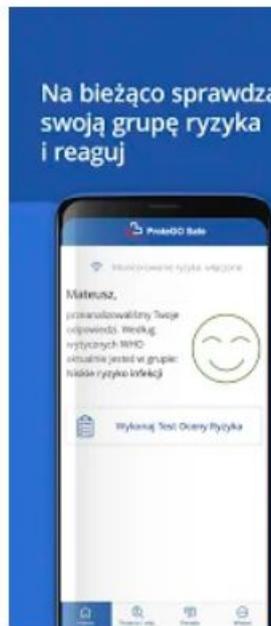
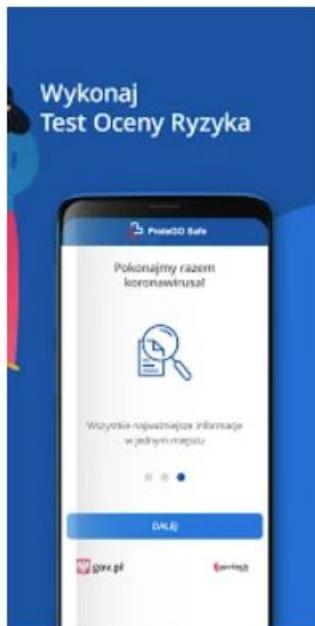
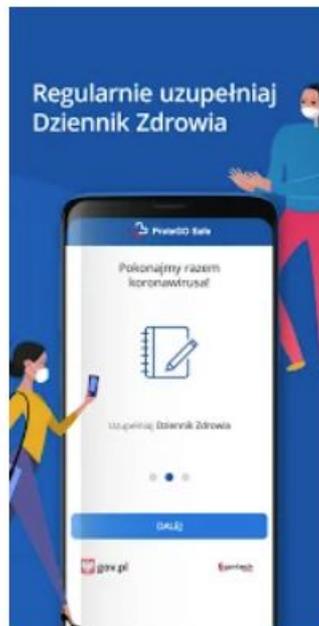
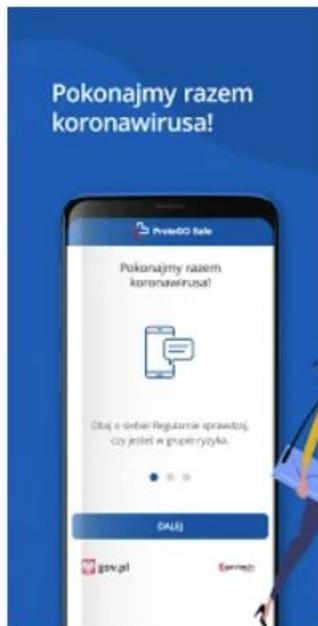
<https://play.google.com/store/apps/details>

Poland

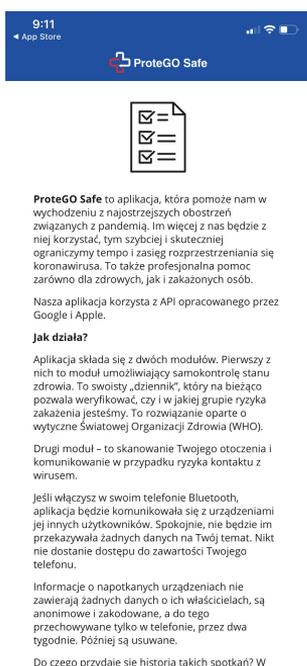
ProteGO



<https://apps.apple.com/us/app/protego-safe/id1508481566> 6/28/20



https://play.google.com/store/apps/details?id=pl.gov.mc.protegosafe&hl=en_US 6/28/20



Wszystko w Twoich rękach. Ta wersja aplikacji korzysta z narzędzi systemów iOS/Android do powiadamiania o możliwym kontakcie z koronawirusem.

Pozwól, by aplikacja anonimowo rejestrowała spotkania z innymi urządzeniami. Dzięki temu, gdy użytkownik, któregoś z nich zachoruje, otrzymasz odpowiednie powiadomienie. Zadbaj o swoje i swoich bliskich zdrowie.

[Więcej informacji](#)

DALEJ

Nie powiadajm mnie o zagrożeniach

gov.pl

govtech

ProteGO Safe to aplikacja, która pomoże nam w wychodzeniu z najostrejszych obostreń związanych z pandemią. Im więcej z nas będzie z niej korzystać, tym szybciej i skuteczniej ograniczymy tempo i zasięg rozprzestrzeniania się koronawirusa. To także profesjonalna pomoc zarówno dla zdrowych, jak i zakażonych osób.

Nasza aplikacja korzysta z API opracowanego przez Google i Apple.

Jak działa?

Aplikacja składa się z dwóch modułów. Pierwszy z nich to moduł umożliwiający samokontrolę stanu zdrowia. To swoisty „dziennik”, który na bieżąco pozwala weryfikować, czy i w jakiej grupie ryzyka zakażenia jesteśmy. To rozwiązanie oparte o wytyczne Światowej Organizacji Zdrowia (WHO).

Drugi moduł – to skanowanie Twojego otoczenia i komunikowanie w przypadku ryzyka kontaktu z wirusem.

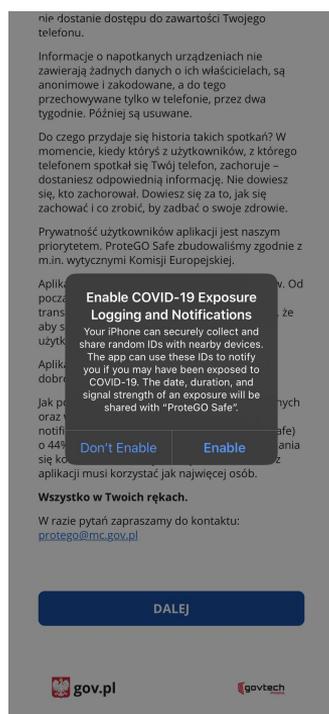
Jeśli włączysz w swoim telefonie Bluetooth, aplikacja będzie komunikowała się z urządzeniami jej innych użytkowników. Spokojnie, nie będzie im przekazywała żadnych danych na Twój temat. Nikt nie dostanie dostępu do zawartości Twojego telefonu.

Informacje o napotkanych urządzeniach nie zawierają żadnych danych o ich właścicielach, są anonimowe i zakodowane, a do tego przechowywane tylko w telefonie, przez dwa tygodnie. Później są usuwane.

Do czego przydadzie się historia takich spotkań? W momencie, kiedy któryś z użytkowników, z którego telefonem spotkał się Twój telefon, zachoruje – dostaniesz odpowiednią informację. Nie dowiesz się, kto zachorował. Dowiesz się za to, jak się zachować i co zrobić, by zadbać o swoje zdrowie.

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Prywatność użytkowników aplikacji jest naszym priorytetem. ProteGO Safe zbudowaliśmy zgodnie z m.in. wytycznymi Komisji Europejskiej.

Aplikacja korzysta z API opracowanego przez Google i Apple. Nasza aplikacja korzysta z API opracowanego przez Google i Apple.

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nie dostanie dostępu do zawartości Twojego telefonu.

Informacje o napotkanych urządzeniach nie zawierają żadnych danych o ich właścicielach, są anonimowe i zakodowane, a do tego przechowywane tylko w telefonie, przez dwa tygodnie. Później są usuwane.

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Aplikacja korzysta z API opracowanego przez Google i Apple. Nasza aplikacja korzysta z API opracowanego przez Google i Apple.

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iOS app version 4.2.0 which was updated 6/22/20.
Access 6/28/20.



Włącz powiadomienia

Do prawidłowego działania aplikacji potrzebna jest Twoja zgoda na wyświetlanie powiadomień. Kliknij poniżej i pozwól ProteGO Safe wspierać ochronę zdrowia każdego z nas.

DALEJ

Nie powiadamiaj mnie o zagrożeniach



Włącz powiadomienia

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"ProteGO Safe" Would Like to Send You Notifications
Notifications may include alerts, sounds, and icon badges. These can be configured in Settings.

Don't Allow

Allow

Nie powiadamiaj mnie o zagrożeniach



Powiadomienia o narażeniu na kontakt z COVID-19



Nowość w aplikacji: powiadomienia o możliwym kontakcie z koronawirusem.

DALEJ



Włącz się do wspólnej walki przeciwko koronawirusowi



Dbaj o siebie! Regularnie sprawdzaj, czy jesteś w grupie ryzyka

DALEJ



Włącz się do wspólnej walki przeciwko koronawirusowi



Uzupełniaj Dziennik Zdrowia

DALEJ



Włącz się do wspólnej walki przeciwko koronawirusowi



Wszystkie najważniejsze informacje w jednym miejscu



DALEJ



Pomóż sobie i innym. Zaczynamy!

Dobrze, że zdecydowałeś/aś się zainstalować aplikację ProteGO Safe.

Dzięki niej dowiesz się, czy istnieje ryzyko, że przebywałeś/aś w pobliżu osób chorych na COVID-19.



Oświadczam, że zapoznałem/am się z [Regulaminem](#) ProteGO Safe oraz [Polityką Prywatności](#) i akceptuję ich postanowienia.

DALEJ



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DALEJ



Chcesz dowiedzieć się więcej?
Kliknij poniżej i wykonaj test oceny ryzyka.

Pamiętaj! Wyniki wywiadu służą wyłącznie celom informacyjnym. Nie mogą być interpretowane, ani traktowane jako porada, konsultacja lub diagnoza lekarska.

WYKONAJ TEST OCENY RYZYKA

POMIŃ TEST OCENY RYZYKA



 Powiadomienie o możliwym kontakcie z koronawirusem jest wyłączone
Kliknij, aby włączyć monitorowanie ryzyka



Brakuje informacji do analizy Twojego ryzyka zakażenia koronawirusem.

Wypełnij test oceny ryzyka lub zaczekaj na informacje o kontaktach z zakażonymi.



Wykonaj TEST oceny ryzyka





Porady

- Zostań w domu.
- Zadzwoń do rodziców i krewnych w podobnym wieku. Pomóż im korzystać z ProteGo Safe na ich telefonie. Zrób dla nich zakupy. Unikaj kontaktu osobistego.
- Jeśli przyjechałeś/-aś z zagranicy – skontaktuj się z sanepidem i poddaj obowiązkowej 14-dniowej kwarantannie.
- Regularnie uzupełniaj zakładkę **MÓJ DZIENNIK ZDROWIA**: zapisuj w aplikacji objawy i temperaturę ciała.

Czym jest koronawirus? ▾

Jaką chorobę wywołuje koronawirus? ▾

Na czym polega leczenie? ▾

Czy są jakieś specjalne leki zapobiegające nowemu koronawirusowi lub leczące go? ▾



Pytania i odpowiedzi

Szanowni Państwo! Niecodzienna sytuacja związana z epidemią nasuwa nam wszystkim wiele pytań – jak funkcjonuje transport publiczny, do kiedy są kontrole na granicy, komu przysługuje dodatkowy zasiłek opiekuńczy na dziecko. Odpowiedzi na te i inne pytania zbieramy w jednym miejscu, a zakładka jest na bieżąco aktualizowana. Pytania są podzielone tematycznie, a interesujące nas sprawy można zlokalizować, korzystając z wyszukiwarki.

Szukaj wśród pytań

IV ETAP ZNOSZENIA OGRANICZEŃ

Dlaczego utrzymujemy stan epidemii, skoro znosimy ograniczenia? ▾

Czy zniesienie obowiązku zasłaniania ust i nosa ma charakter całkowity? ▾

Ile osób może przebywać w kinie lub teatrze? ▾

Czy w teatrze, kinie lub w operze muszą mieć maseczkę? ▾

Uprawiam jogging. Czy podczas biegu muszą mieć maseczkę? ▾



Dziennik zdrowia

Test oceny ryzyka

Jak to działa?

Czuję się źle, co zrobić?

Numery alarmowe

Regulamin i Polityka prywatności

Ustawienia

Moje dane

Zgłoś błąd



Powiadomianie o możliwym kontakcie z koronawirusem jest wyłączone
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Wykonaj TEST oceny ryzyka



Test oceny ryzyka zakażenia koronawirusem

Jedną z głównych funkcji tej aplikacji jest test oceny ryzyka zakażenia koronawirusem. Przygotowaliśmy go zgodnie z wytycznymi Światowej Organizacji Zdrowia (WHO).

Ważne

Test:

- nie jest diagnozą. Tę mogą postawić wyłącznie lekarz i test medyczny na obecność wirusa.
- pomaga monitorować swój stan zdrowia.
- wypełnij go zgodnie z prawdą - robisz to dla własnego bezpieczeństwa.





Ile masz lat?

- mniej niż 65
- 65 lub więcej
- nie chcę podać

Dlaczego warto podać tę informację?

Wiek jest ważnym czynnikiem w kalkulacji oceny ryzyka zakażenia. Osoby starsze oraz te o obniżonej odporności są szczególnie narażone na działanie koronawirusa.

DALEJ

Zaznacz odpowiedzi, które Cię dotyczą

- Zdiagnozowana przewlekła choroba płuc
- Zdiagnozowana niewydolność serca
- Trwająca choroba nowotworowa
- Choroby lub leki obniżające odporność
- Zdiagnozowana przewlekła choroba wątroby
- Zdiagnozowana niewydolność nerek
- Długoterminowy pobyt w domu opieki
- Cukrzyca
- Otyłość
- Żadne z powyższych

DALEJ

Czy masz któryś z poniższych objawów? Wybierz jedynie nowe objawy, niezwiązane z Twoimi przewlekłymi chorobami.

- Gorączka
- Kaszel
- Dusznosc
- Żadne z powyższych

DALEJ

Czy masz którekolwiek z poniższych objawów?

- Osłabienie
- Bóle mięśni
- Dreszcze
- Ból głowy
- Biegunka
- Mdości
- Ból gardła
- Upośledzony smak lub węch
- Żadne z powyższych

DALEJ

Czy w ciągu ostatnich 14 dni miałeś/-aś bliski kontakt z osobą z podejrzeniem zakażenia koronawirusem?

- Mieszkam lub opiekowałem/-am się osobą z podejrzeniem zakażenia koronawirusem
- Przebywałem/-am w tym samym pomieszczeniu (biuro, klasa, siłownia) lub podróżowałem/-am w bliskiej odległości (poniżej 1 metra) z osobą z podejrzeniem zakażenia koronawirusem
- Miałem/-am osobisty kontakt przez dłużej niż 15 minut z osobą podejrzaną o zakażenie koronawirusem
- Inny rodzaj kontaktu
- Żadne z powyższych

DALEJ



Gratulacje!

Dziękujemy za wypełnienie Testu Oceny Ryzyka

Na podstawie Twoich odpowiedzi, nasz system sprawdzi teraz do jakiej grupy Cię zakwalifikować.

To bardzo ważne, abyś wypełniał/-a testy regularnie. Będziemy Ci o tym przypominać :)

SPRAWDŹ WYNIK



Powiadamanie o możliwym kontakcie z koronawirusem jest wyłączone

Kliknij, aby włączyć monitorowanie ryzyka



Użytkowniku,

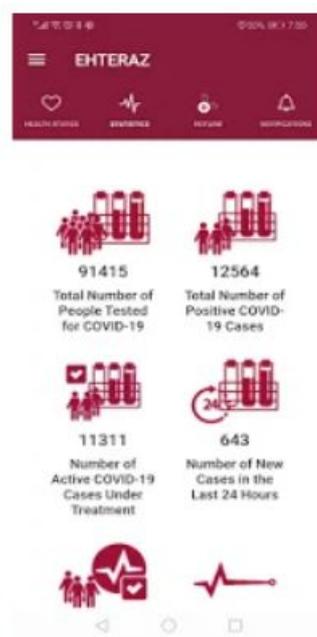
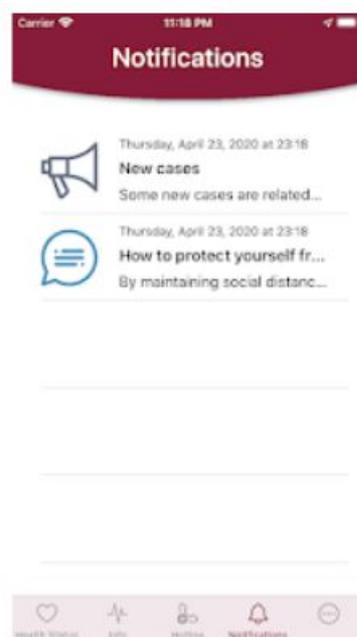
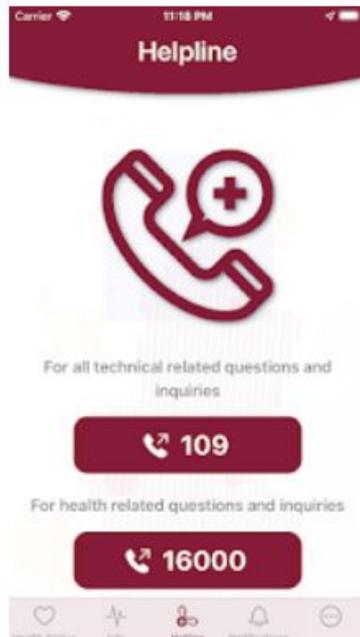
przeanalizowaliśmy Twoje odpowiedzi. Wynik testu z **28-06-2020** kwalifikuje Cię do grupy: **Niskie ryzyko infekcji.**



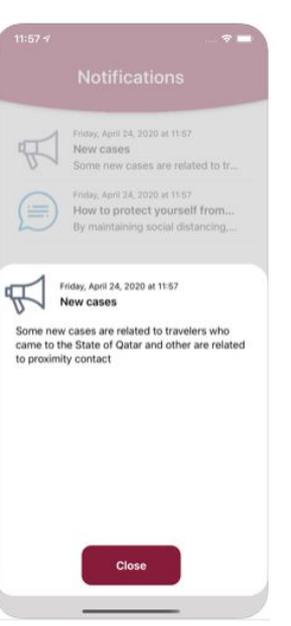
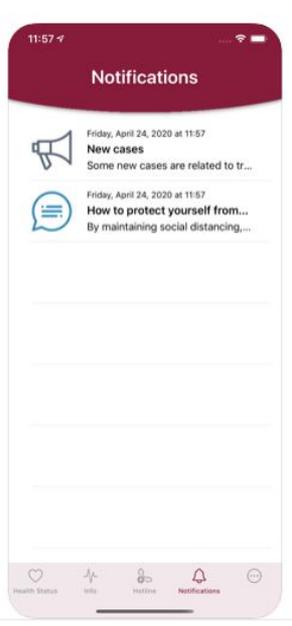
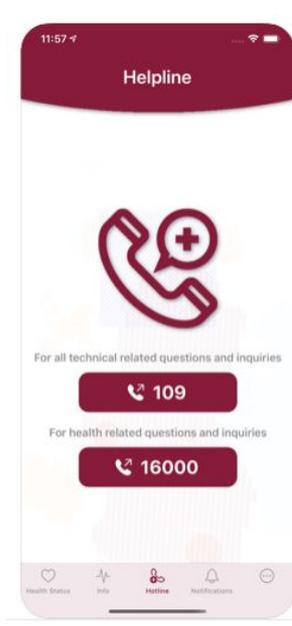
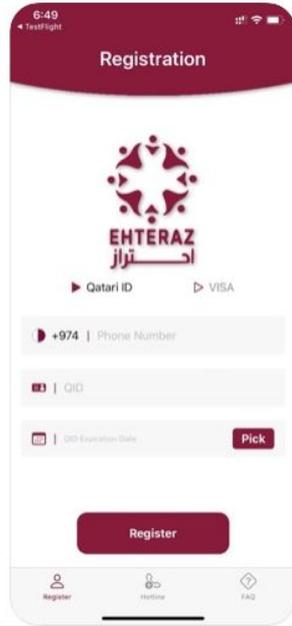
Wykonaj TEST oceny ryzyka



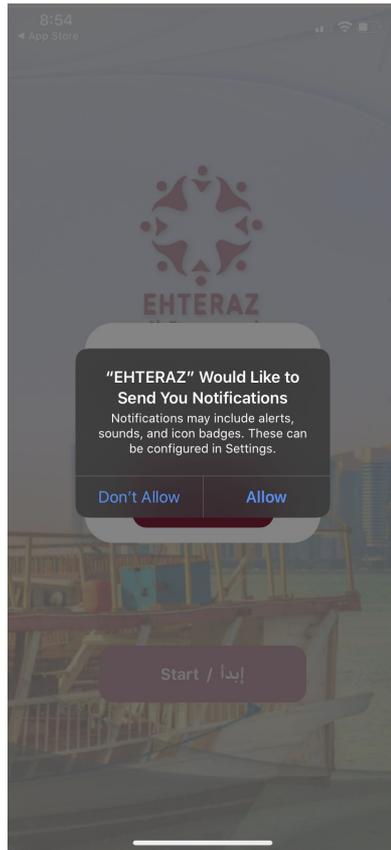
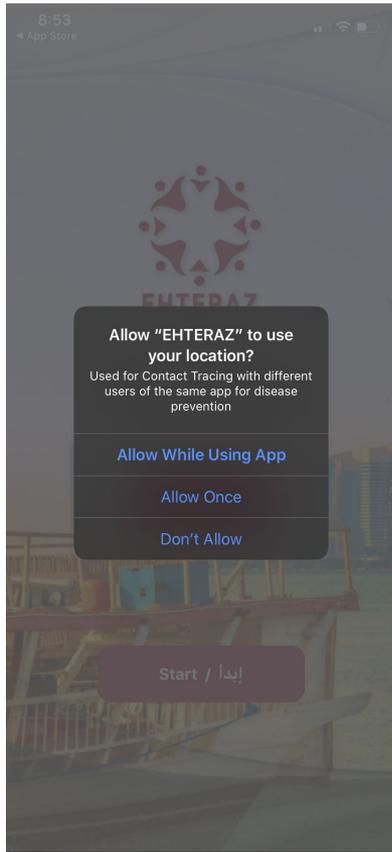
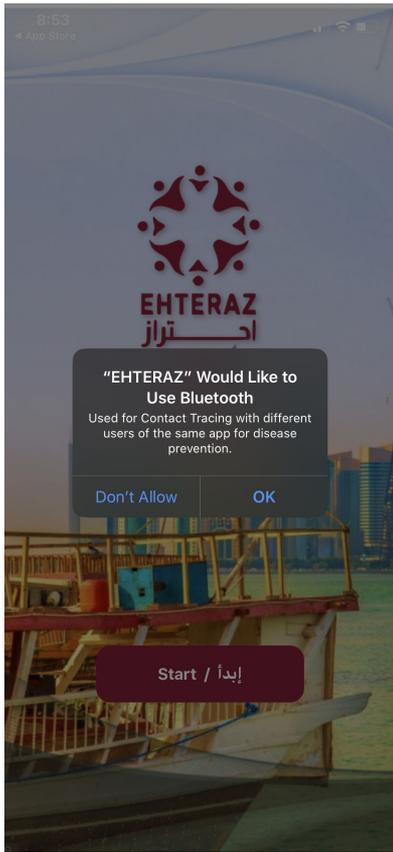
Qatar
Ehteraz



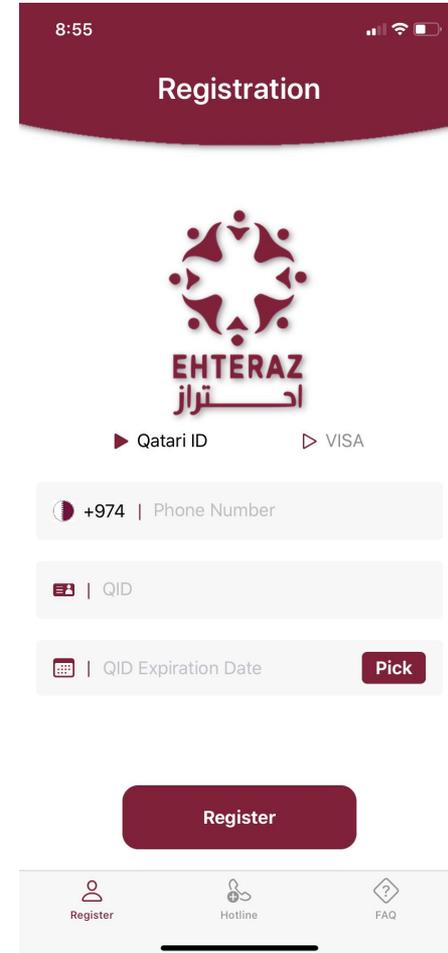
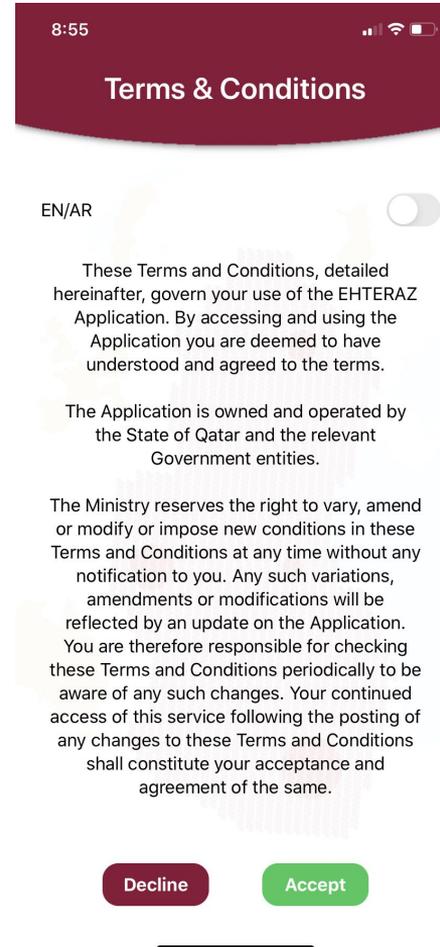
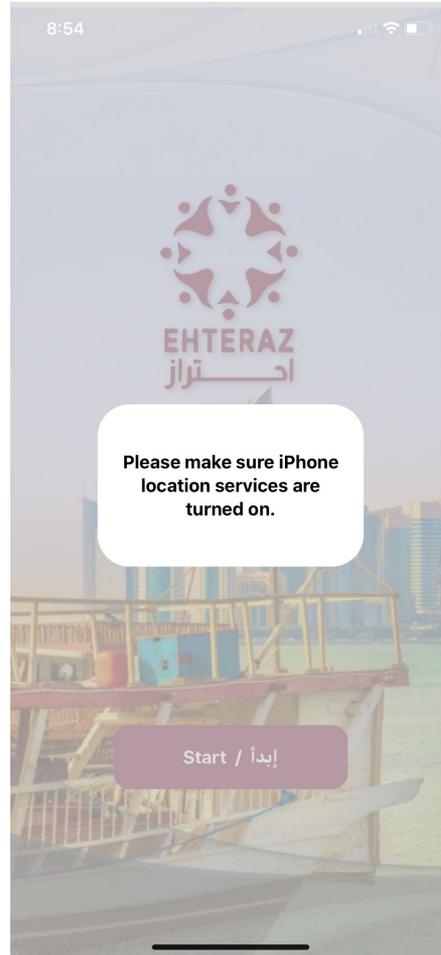
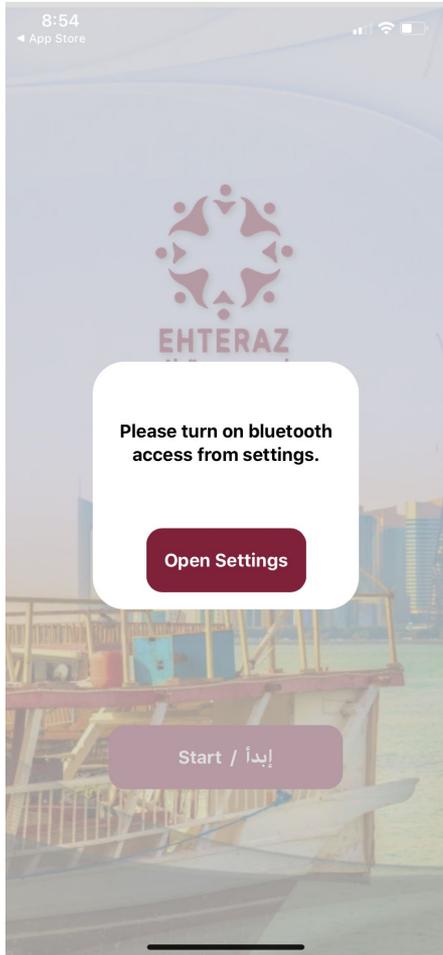
https://play.google.com/store/apps/details?id=com.moi.covid19&hl=en_US 6/28/20



<https://apps.apple.com/us/app/ehteraz/id1507150431> 6/28/20



iOS App download 6/28/20. Version 5.1



Singapore

Trace Together



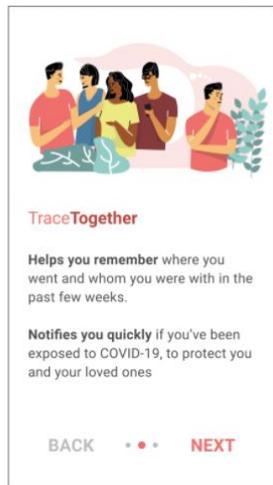
Add screenshots directly from
phone

App screenshots directly



1. Scan QR code or go to tracetgether.gov.sg to download the app.

The app is now available in **more languages**.



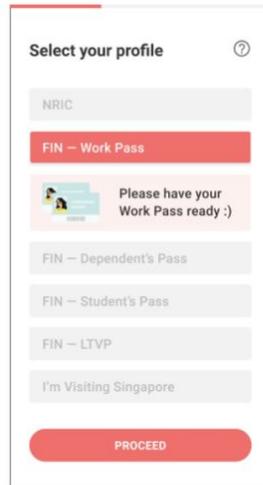
2. **Launch the app.**

The first few pages explain the benefits of using the app.



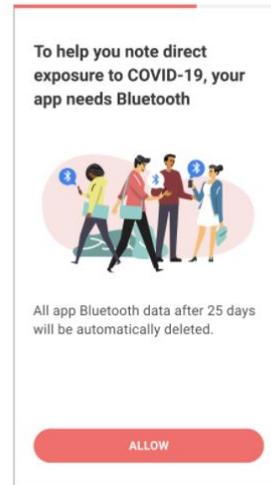
3. **Register using your mobile number.**

Enter the One-Time Pin sent to you via SMS.

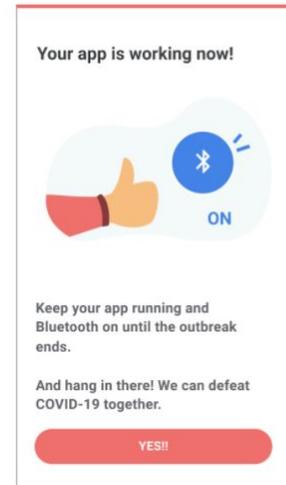


4. **Select your profile** and enter your details.

Your unique ID helps MOH reach the right person when they need to contact you.



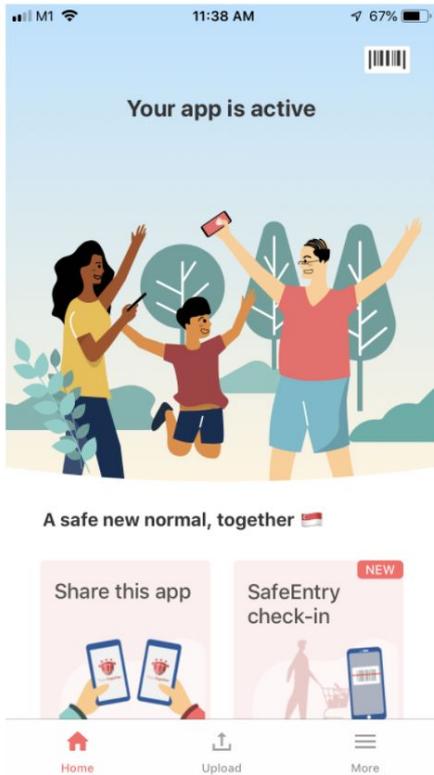
5. **Enable Bluetooth and other app permissions.**



6. Set up completed!

Keep Bluetooth on, and keep your app open in the background until the end of the outbreak.

<https://support.tracetgether.gov.sg/hc/en-sg/articles/360043735573-How-do-I-set-up-TraceTogether->



The SafeEntry barcode feature facilitates quick and secure check-ins and check-outs at all SafeEntry locations.

Users may click on the 'SafeEntry check-in' button in the home screen for a digital identification barcode, unique to you, to appear. Scan the barcode at SafeEntry locations that accept scanning of barcodes such as on your NRIC, FIN and other forms of identifications cards.

Kindly note that sometimes the barcode cannot be scanned as older scanners that use lasers do not work well with reflective surfaces like mobile phone screens.

Please keep the app running with full app permissions until the end of the outbreak, so we can protect you and your loved ones.

You can disable TraceTogether's functionality any time by turning Bluetooth off or by pausing the app from the option in your home screen (currently only for Android). We will not be able to help notify you quickly of possible exposure to COVID-19 during this period when your app isn't working. 😞

We will only use TraceTogether for contact tracing during the COVID-19 outbreak. Once contact tracing is no longer needed, you will be prompted to disable TraceTogether's functionality.

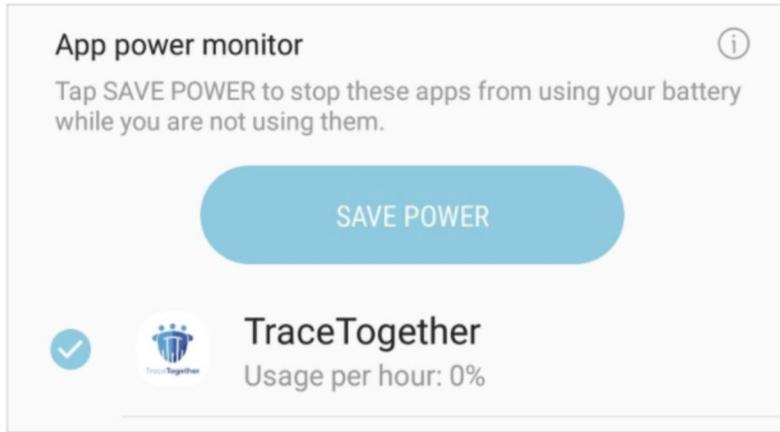
If the main screen on your app says "Your app is active", it means your app has been set up successfully.

<https://support.tracetgether.gov.sg/hc/en-sg/articles/360043735593-How-do-I-know-that-my-app-is-working->

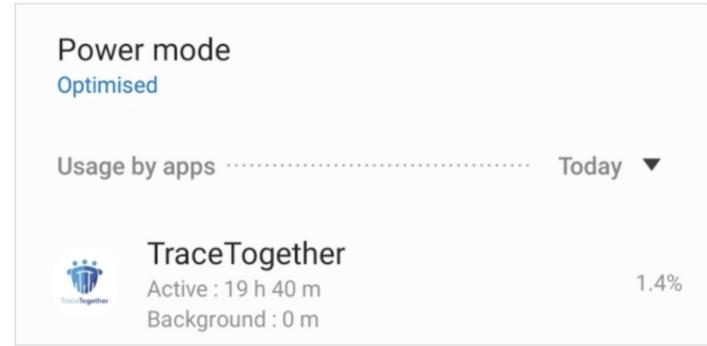
Would keeping TraceTogether running all the time drain my battery quickly?

3 months ago · Updated

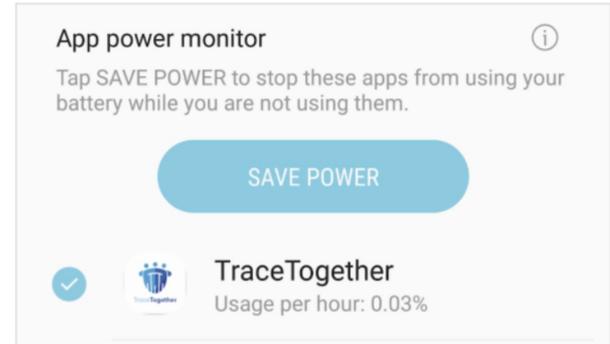
The battery consumption on tested phones is only marginally greater with the app running, particularly on phones that already have Bluetooth enabled.



Samsung Galaxy A70 (introduced in 2019)



Samsung Galaxy J7 Pro (introduced in 2017)



Samsung Galaxy S6 (introduced in 2015)

<https://support.tracetgether.gov.sg/hc/en-sg/articles/360045311673-Would-keeping-TraceTogether-running-all-the-time-drain-my-battery-quickly->

Participate in
community-driven
contact tracing



TraceTogether



MINISTRY OF HEALTH
SINGAPORE

SG UNITED



GOVTECH
SINGAPORE

A safe new
normal starts
with all of us 💪



Your app is active

A safe new normal, together 🇸🇬

Share this
app



SafeEntry
check-in



Get notified quickly
if you've been
exposed to
COVID-19

To help you note direct
exposure to COVID-19,
your phone needs these
permissions



- 1 Bluetooth
- 2 Let app run in background

<https://play.google.com/store/apps/details?id=sg.gov.tech.bluetrace>

What is TraceTogether and how does it work?

TraceTogether is a contact-tracing smartphone app that enables the Ministry of Health (MOH) to quickly track people who have been exposed to confirmed coronavirus cases.

1 Users here can download the app on the Apple App Store or the Google Play Store.

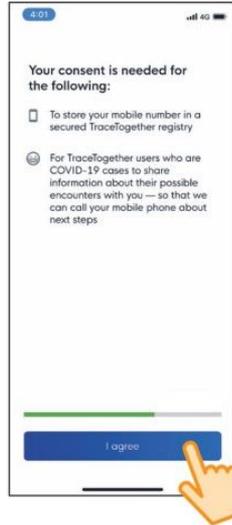
SCAN TO DOWNLOAD



2 Users have to input their mobile phone number for MOH to be able to contact them quickly. The number is the only data collected by the Government through the app.



3 During the initial set-up, users have to give their explicit consent to be able to use the app.



4 Users will then have to enable push notifications and location permissions, and keep the Bluetooth function on their phones turned on.



5 This is because the app uses short-distance Bluetooth signals that are exchanged between phones to detect other TraceTogether users in close proximity.



6 Official contact tracers who call users will provide a code that users can match with a corresponding verification code on their app.

- Once authenticated, users will be given a PIN number that allows submission of logs when entered.
- Official contact tracers will not ask for personal financial details or transfer of money.



Sources: GOVTECH, MINISTRY OF HEALTH PHOTOS: GOVTECH STRAITS TIMES GRAPHICS

<https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.straitstimes.com%2Ftech%2Fsingapore-app-allows-for-faster-contact-tracing&psig=AOvVaw2ICWe-O1PdaliLebOKjwIP&ust=1591709524377000&source=images&cd=vfe&ved=0CAIQjRxxqFwoTCJiXs5mq8ukCFQAAAAAaAAAAABAQ>

Step 1

Enter your mobile number to be contacted

+ 65 91234567

We'll text you a One-Time Pin (OTP).

Setting up for your family? Use their number instead of yours.

Get OTP

Step 2



"TraceTogether" Would Like to Send You Notifications

Notifications may include alerts, sounds and icon badges. These can be configured in Settings.

Don't Allow

Allow

I turned on Bluetooth

Step 3



Turn on your Bluetooth

Do this from Control Center or go to Settings.

Then come back to the app to confirm.

I turned on Bluetooth

Step 4

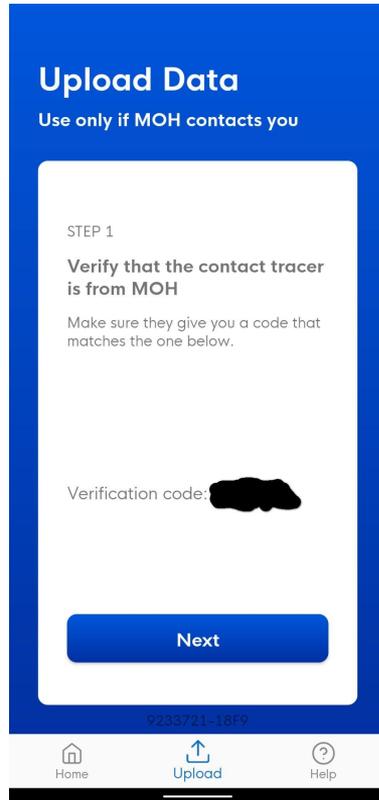
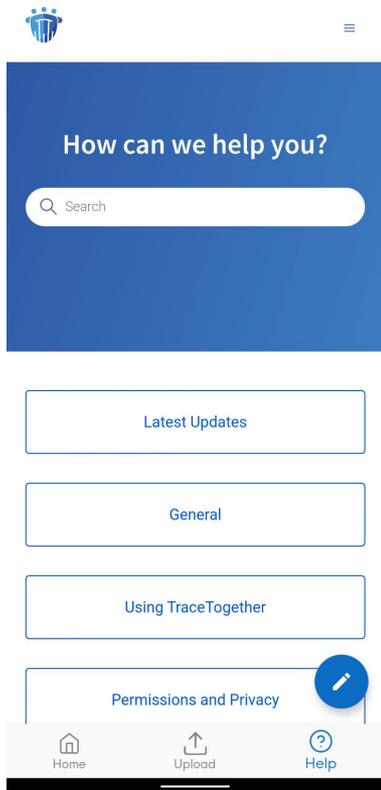


App permissions are fully set up

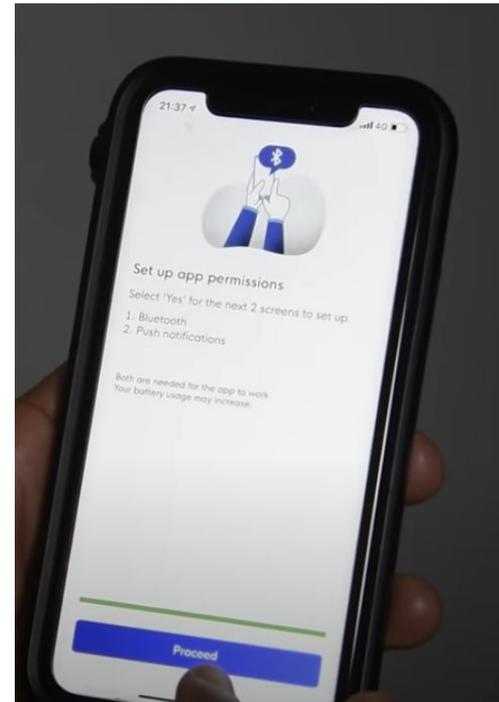
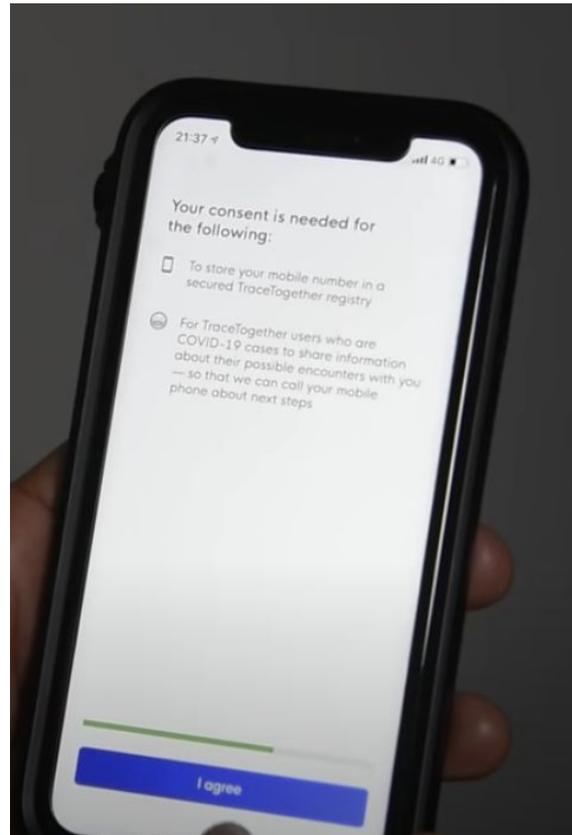
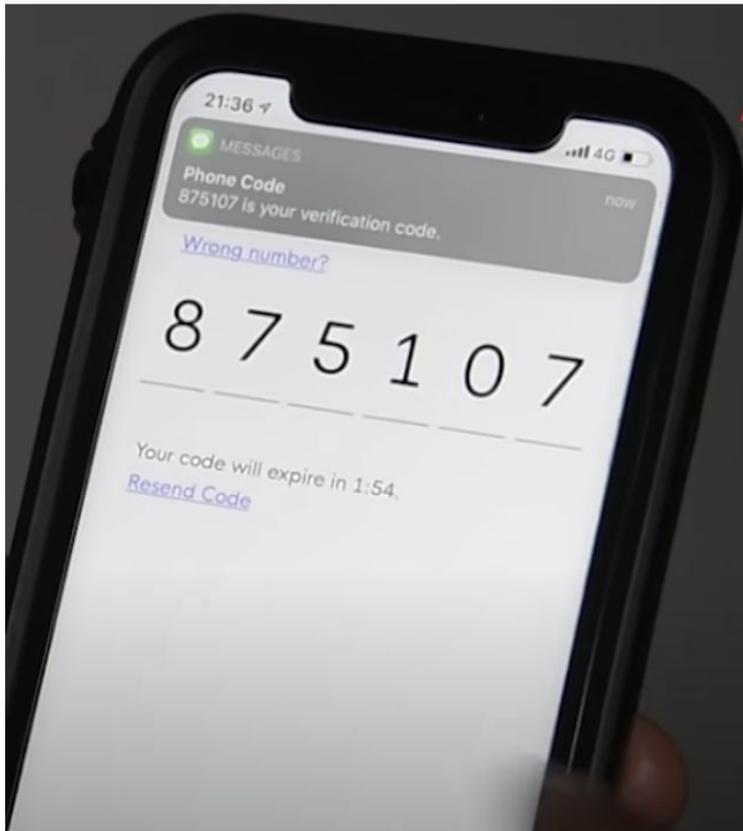
Please leave all settings on until the outbreak ends.

Continue

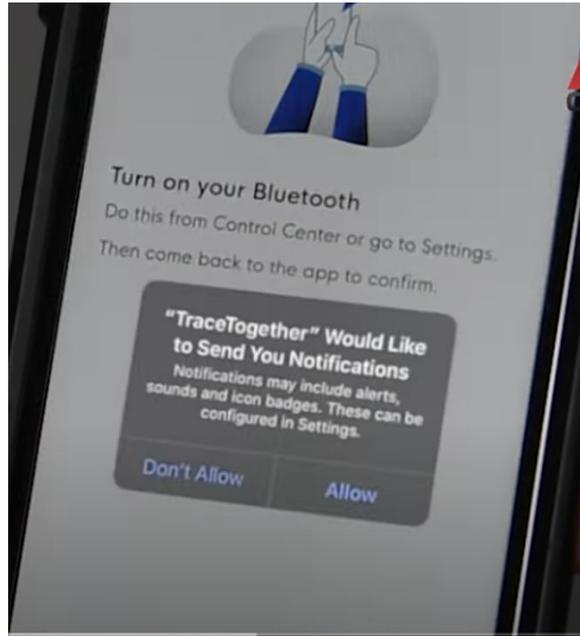
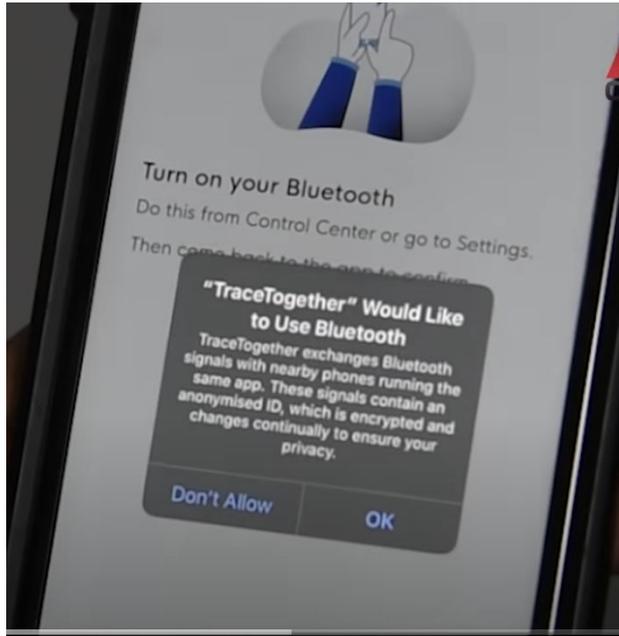
<https://www.google.com/url?sa=i&url=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FTraceTogether&psig=AOvVaw2ICWe-O1PdaliLebOaKjwIP&ust=1591709524377000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCJiXs5mq8ukCFQAAAAAAdAAAAABA Y>



<https://www.gizmodo.com.au/2020/03/how-coronavirus-tracking-app-tracetogogether-works/>



<https://www.youtube.com/watch?v=6n9ZsHSc4YA>



<https://www.youtube.com/watch?v=6n9ZsHSc4YA>

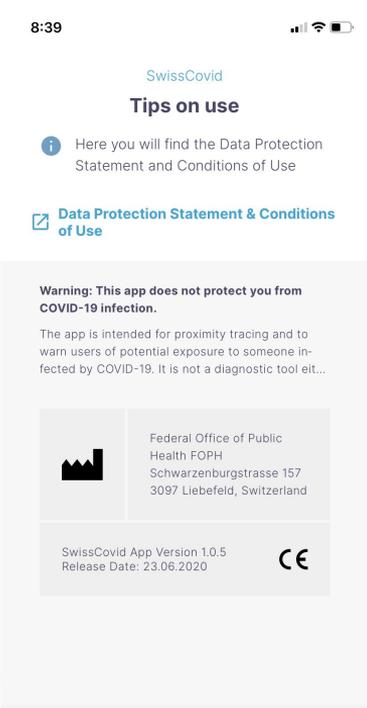
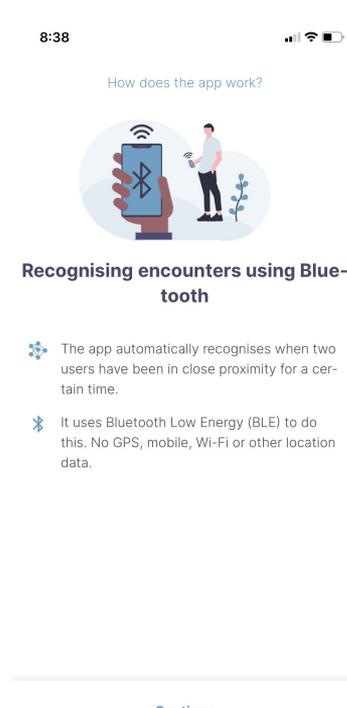
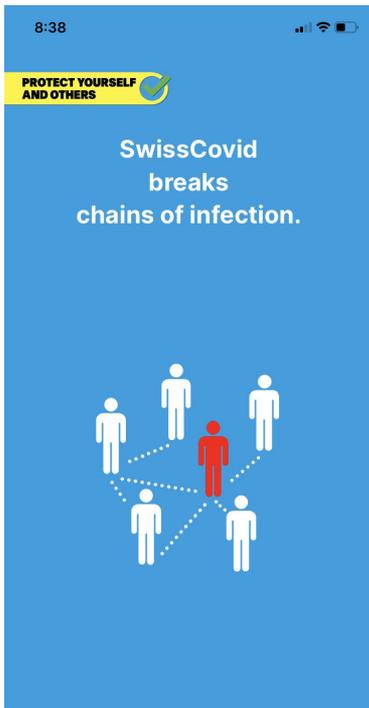


Play (k)

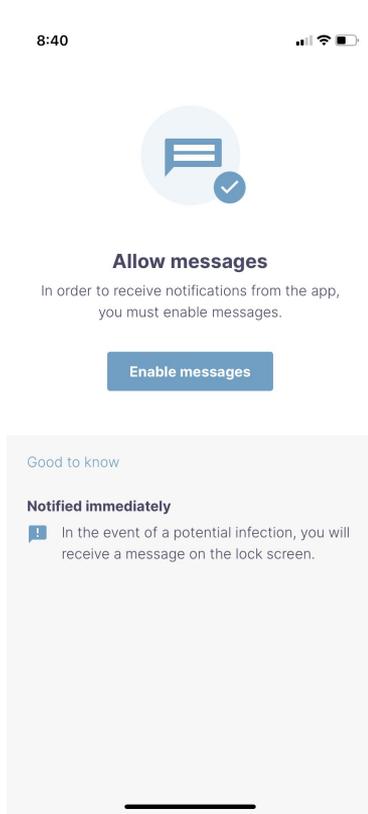
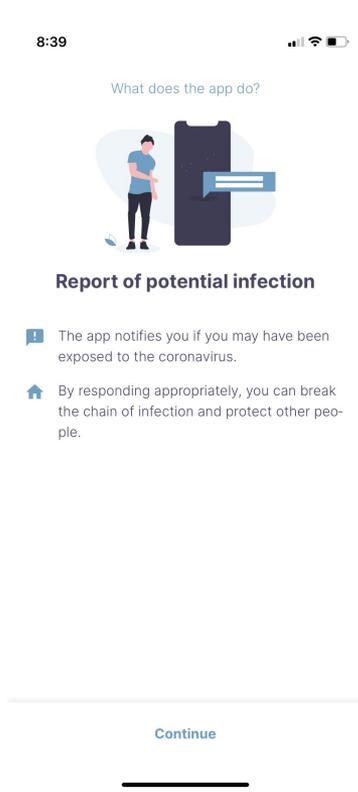
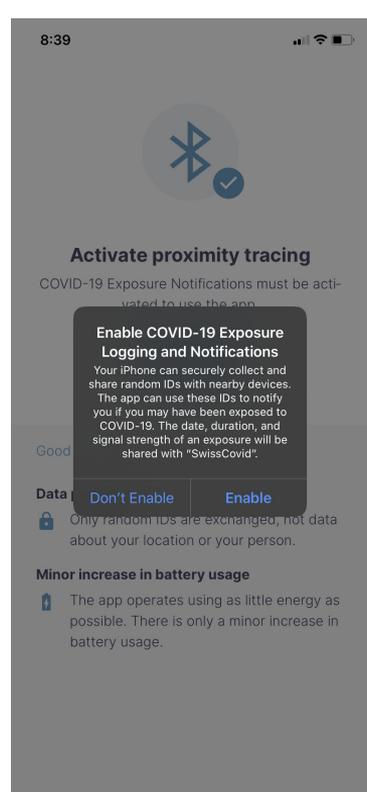
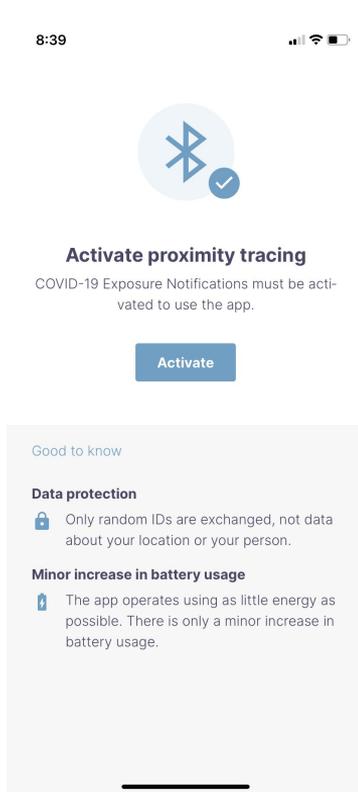
Singapore - TraceTogether (contact tracers will notify you quickly)

Switzerland

SwissCovid



Screenshots taken iOS app version 1.0.5 on June 28, 2020





The app is ready to go

Thank you for helping to break the chain of infection.

Start

SwissCovid

Encounters

✓ **APP ACTIVE**
Encounters will be registered anonymously.

SwissCovid remains active even if the app has been closed.

Reports

✓ **NO REPORTS**
No potential infections have been reported

MESSAGES DEACTIVATED
Change the settings to receive information directly in the event of a report.

[Change settings](#)

SwissCovid

app has been closed.

Reports

✓ **NO REPORTS**
No potential infections have been reported

MESSAGES DEACTIVATED
Change the settings to receive information directly in the event of a report.

[Change settings](#)

What to do if ...
Symptoms of the disease

What to do if ...
you test positive

SwissCovid

Version 1.0.5

Published by

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Bundesamt für Gesundheit BAG
Office fédéral de la santé publique OFSP
Ufficio federale della sanità pubblica UFSP
Uffizi federal da sanadad publica UFSP

Further information

www.foph.admin.ch

Technical support

+41 58 466 07 99

Legal

[Data Protection Statement & Conditions of Use](#)

Research and development

EPFL

Encounters

Proximity tracing
COVID-19 Exposure Notifications

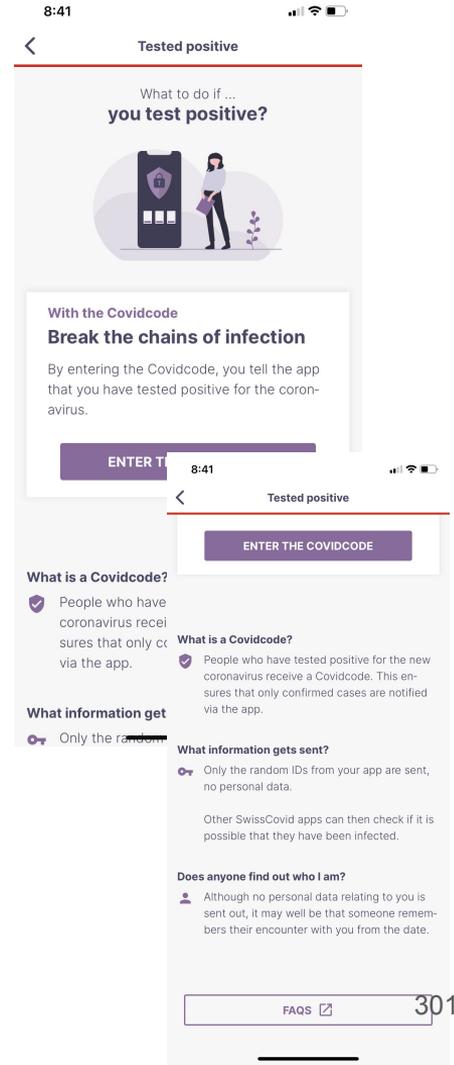
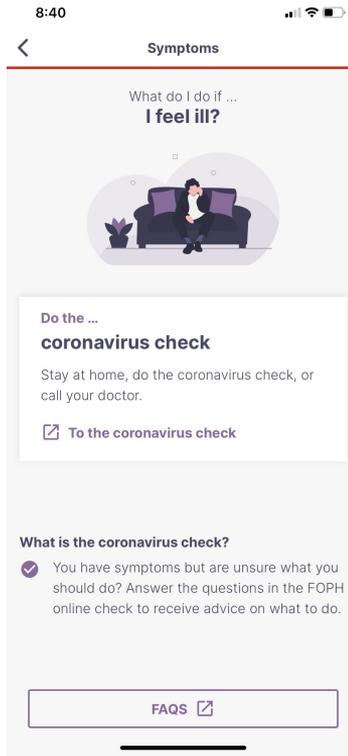
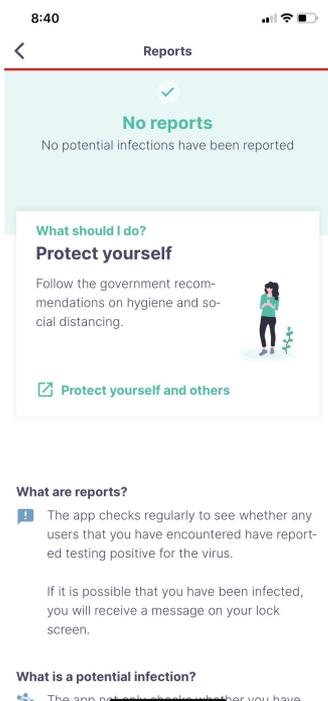
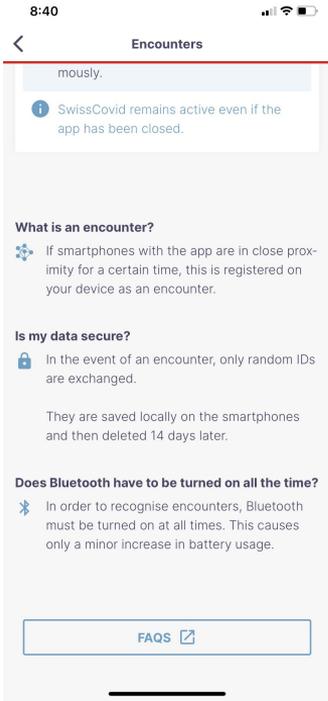
✓ **APP ACTIVE**
Encounters will be registered anonymously.

SwissCovid remains active even if the app has been closed.

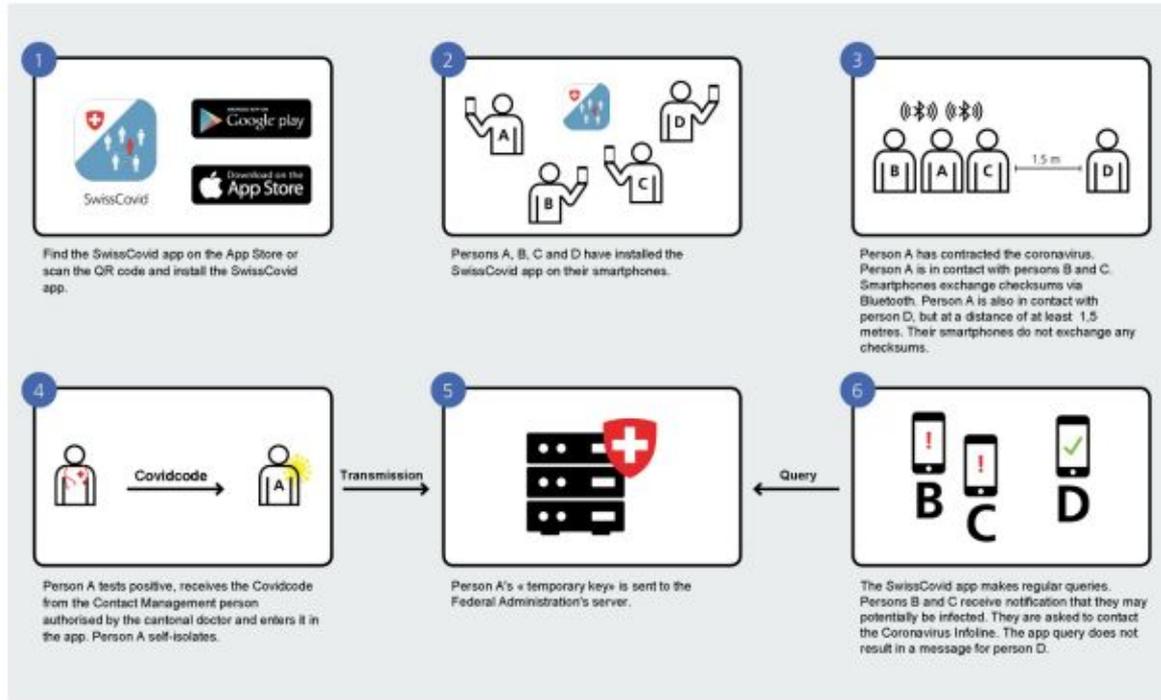
What is an encounter?
If smartphones with the app are in close proximity for a certain time, this is registered on your device as an encounter.

Is my data secure?
In the event of an encounter, only random IDs are exchanged.

They are saved locally on the smartphones and then deleted 14 days later.



This is how proximity tracing using the SwissCovid app works.



file:///Users/stephanienguyen/Downloads/SwissCovid%20app_Factsheet_200622.pdf

Turkey

Hayat Eve Sığar



This application protects you and your surroundings from Corona virus T.C. It was developed by the Ministry of Health.

Risk Areas

When you allow location services, the app will alert you when you approach risky areas, and you will be able to see areas on the map that you should not approach instantly.

<https://apps.apple.com/tr/app/hayat-eve-sig-ar/id1505756398?l=tr>

Turkey
Hayat Eve Sığar



Hayat Eve Sığar

Bu uygulama seni ve çevrendekileri Corona virüsünden korumak için T.C. Sağlık Bakanlığı tarafından geliştirilmiştir.

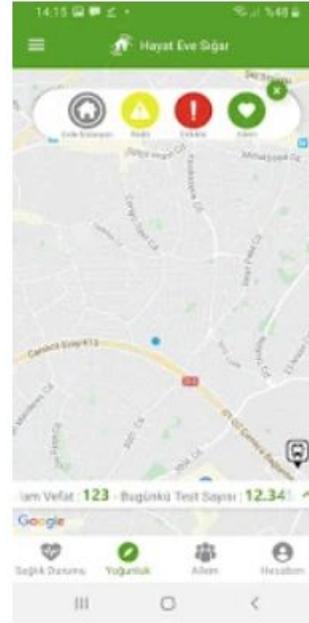
İLERLE



Risk Bölgeleri

Konum servislerine izin verdiğinde, uygulama, seni, riskli bölgelere yaklaştığında uyaracak ve haritada anlık olarak yaklaşmaman gereken alanları gösterebileceksin.

İLERLE



Turkey
Hayat Eve Sığar

https://play.google.com/store/apps/details?id=tr.gov.saglik.hayatevesigar&hl=en_US

UAE

TraceCovid

Fight COVID-19 together with TraceCovid



دائرة الصحة
DEPARTMENT OF HEALTH

TraceCovid helps Government Authorities with contact tracing for the benefit of the whole community

TraceCovid helps protect your loved ones



Fight COVID-19 together. Get faster response.

If you were in contact with a COVID-19 case, we can contact you faster to take the necessary actions to prevent its spread.

Your data is not accessed unless you were near a confirmed case.

Okay

TraceCovid detects users around you



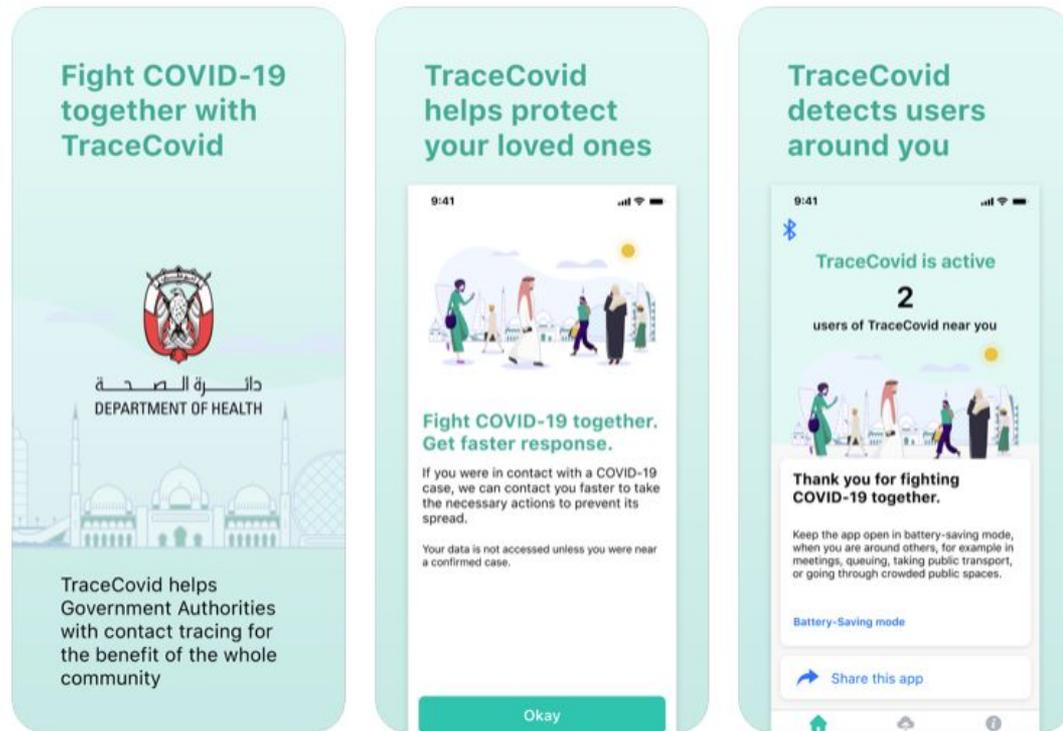
You are helping to stop the spread of COVID-19

Keep the app open, in the background until the Government Authorities announce the end of the outbreak

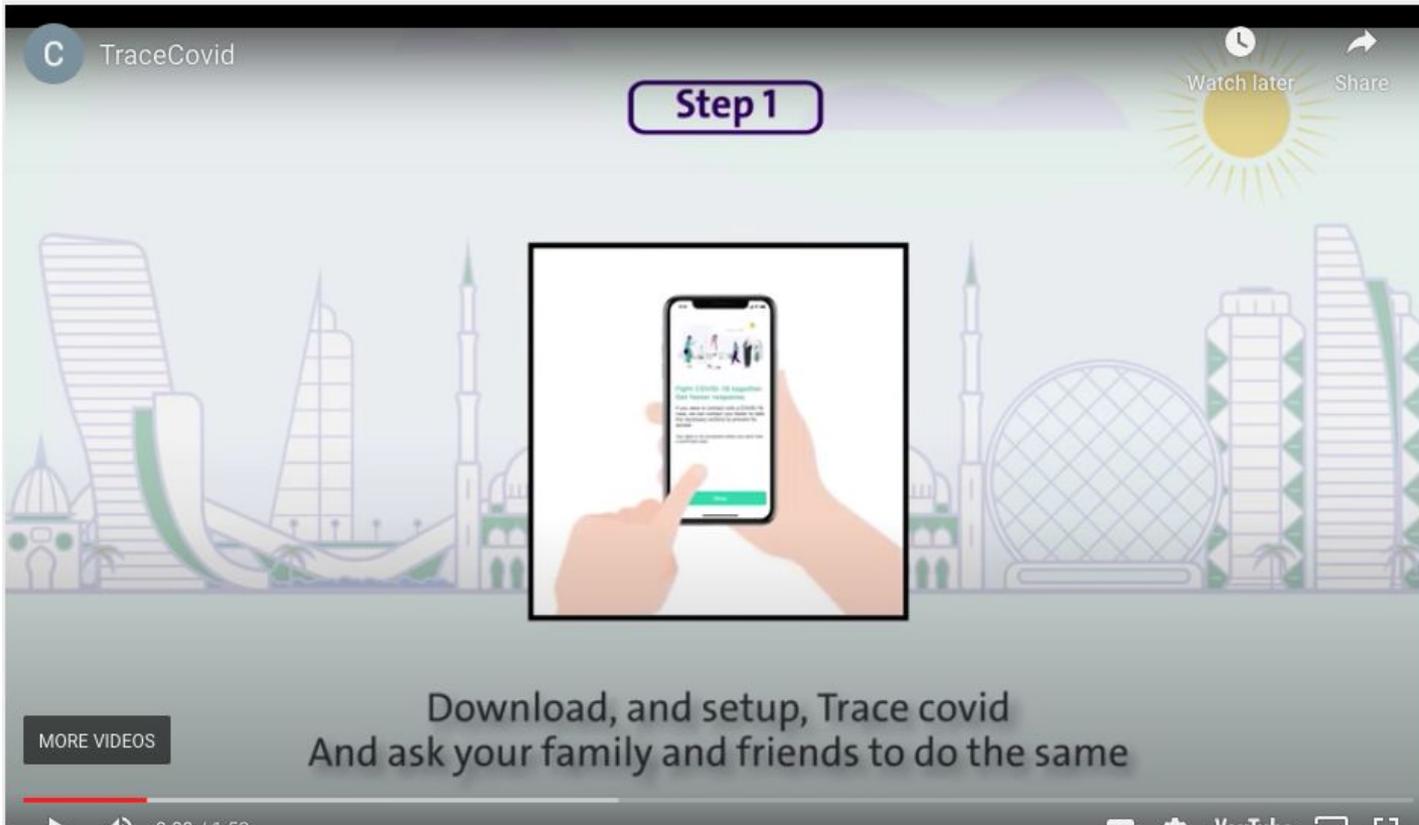
 Share this app

<https://play.google.com/store/apps/details?id=ae.tracecovid.app>

iPhone Screenshots



<https://apps.apple.com/sg/app/tracecovid/id1505485835>



Youtube video viewed 6/28/20:

https://www.youtube.com/watch?v=5Lex5j_wxK4

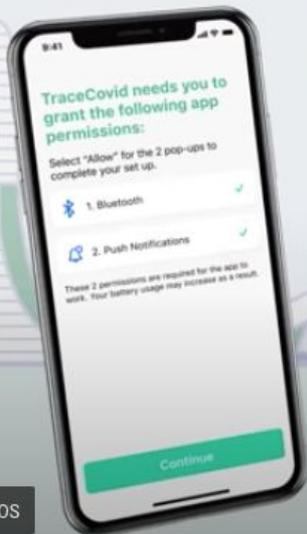
C

TraceCovid

Step 2

Watch later

Share



Turn on your, Bluetooth
And that's 'it!

MORE VIDEOS



0:16 / 1:52



YouTube



C

TraceCovid

Watch later

Share

**You have now joined our community, to help fight Covid-19 together,
through community-wide contact tracing.**

MORE VIDEOS



0:19 / 1:52



YouTube





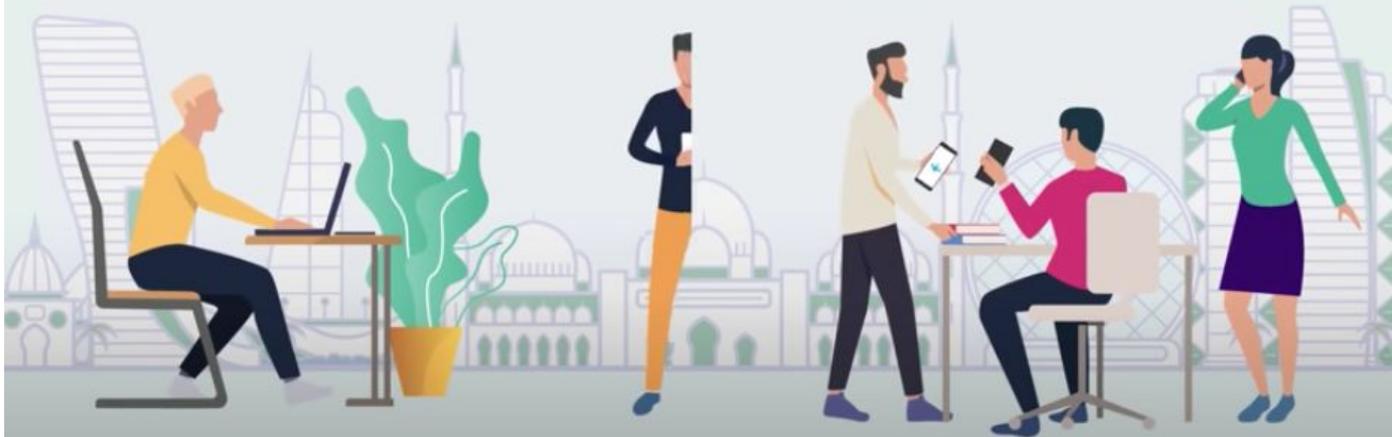
TraceCovid



Watch later



Share



MORE VIDEOS

Trace covid helps the contact-tracing operation, to quickly



0:28 / 1:52



YouTube



C

TraceCovid

Watch later

Share



contact those who had close contact with Covid-19 patient,
regardless, of whether they know each other or not.

MORE VIDEOS

0:30 / 1:52

CC YouTube

C

TraceCovid



Watch later



Share



Trace covid utilizes Blue tooth signals, to determine whether
any phones, with the application installed, are close to each other.

MORE VIDEOS

Mute (m)

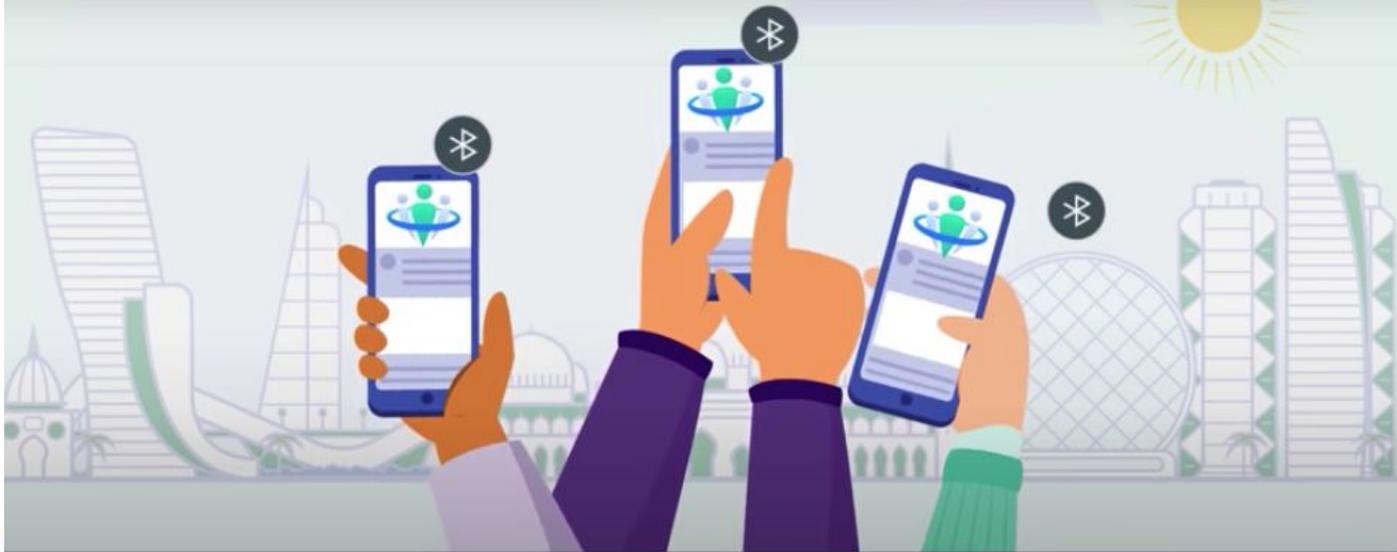


0:39 / 1:52



YouTube



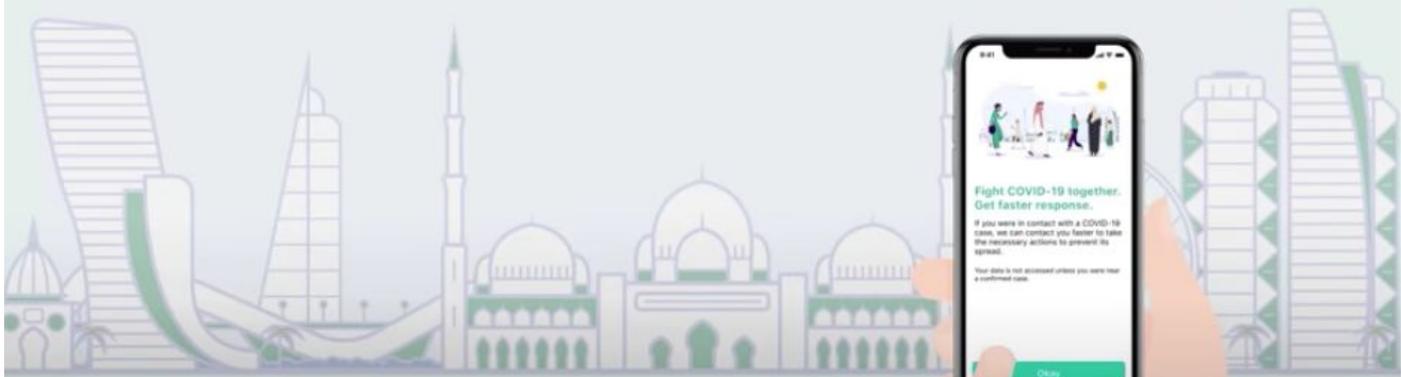


When 2 phones are nearby, they exchange an encrypted Secure Tracing Identifier, which is then stored on their respective phones.

MORE VIDEOS
Mute (m)

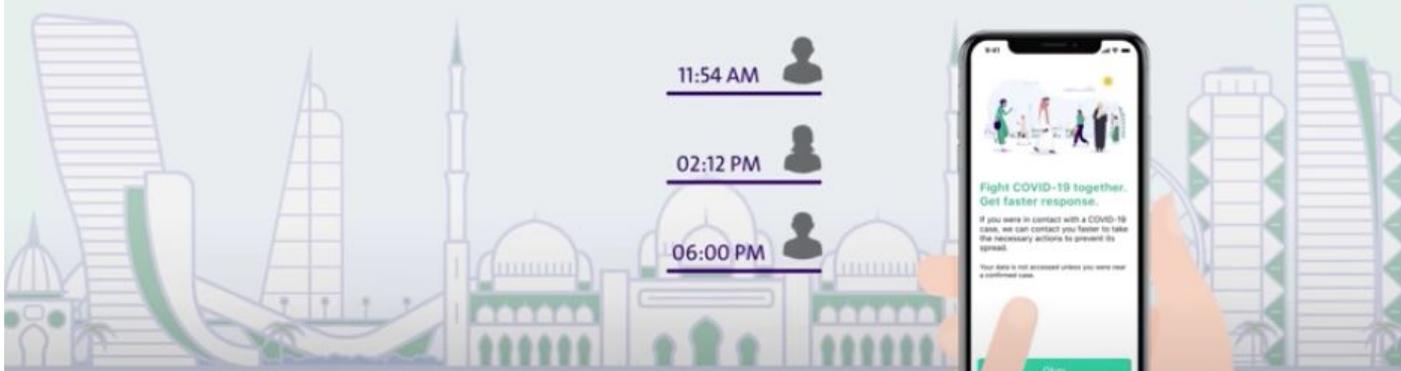
0:47 / 1:52

CC YouTube



the relevant authorities will contact
to access the Trace covid data,

MORE VIDEOS



11:54 AM



02:12 PM



06:00 PM



which includes a list of Secure Tracing Identifiers that the phone has been in close proximity to.

MORE VIDEOS



1:07 / 1:52



YouTube



C

TraceCovid

Watch later

Share

And that is it!
No personal data is collected.

MORE VIDEOS



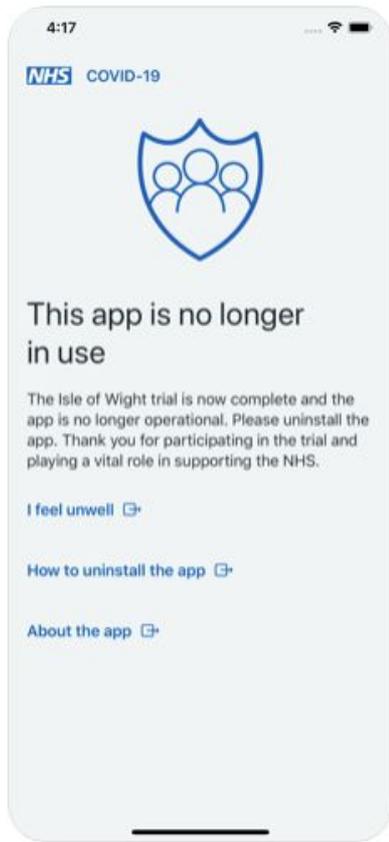
1:11 / 1:52



YouTube



United Kingdom NHS COVID-19 App



6/28/20 iOS app <https://apps.apple.com/us/app/nhs-covid-19/id1507396059>



If you develop symptoms, please come back to this app.

Turn off your Bluetooth when you put on your PPE

Your interactions at work should not be captured when you are wearing personal protective equipment.

Close

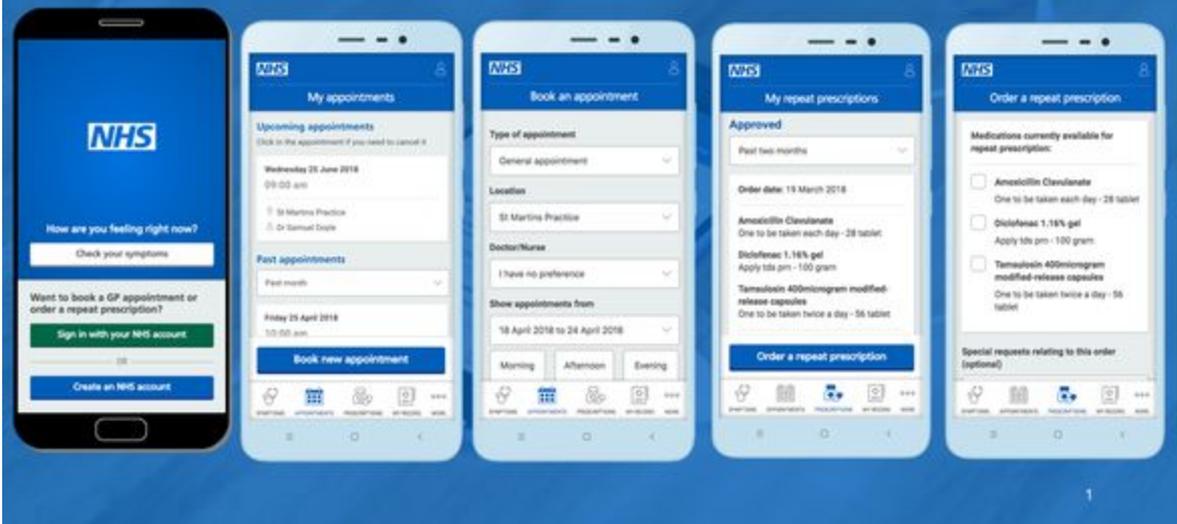
NHSX

This message has been placed in the app, for healthcare workers

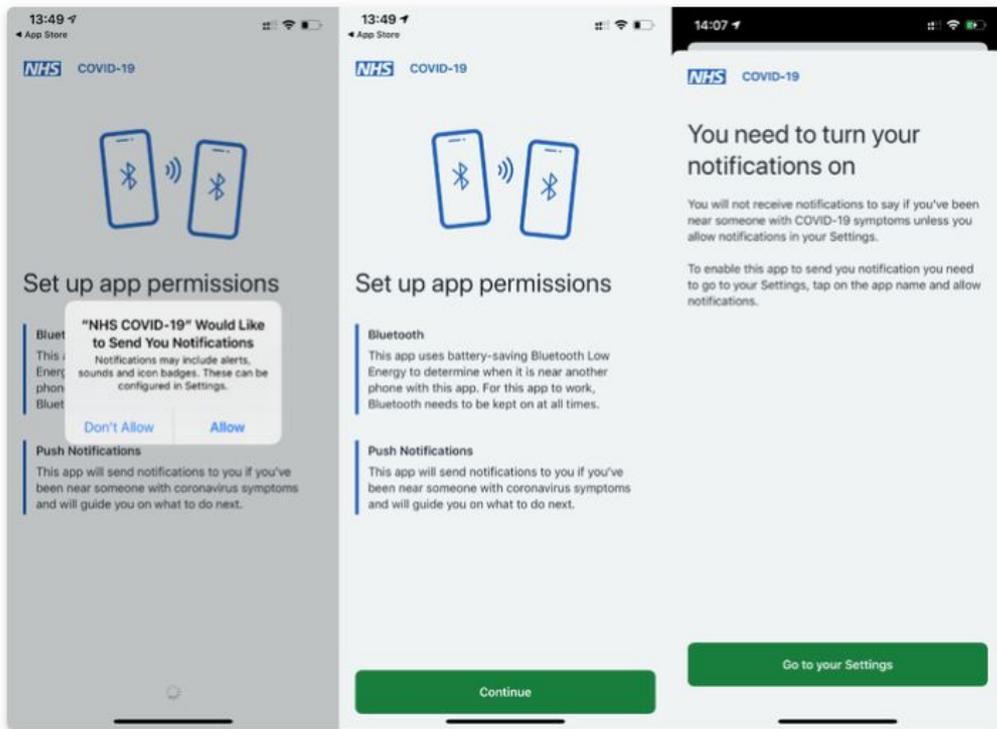
<https://www.bbc.com/news/technology-52551273>

Users will be asked to enter the first part of their postcode but not their name or other personal details

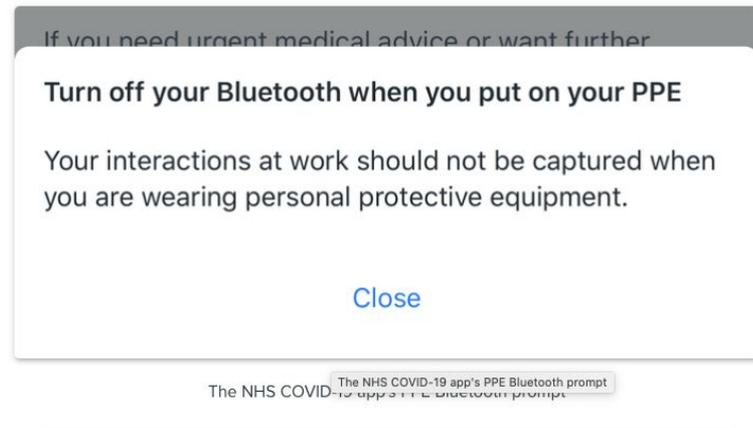
NHS App selected screenshots



<https://www.glebelandspractice.nhs.uk/page1.aspx?p=13&t=2>



The NHS COVID-19 app

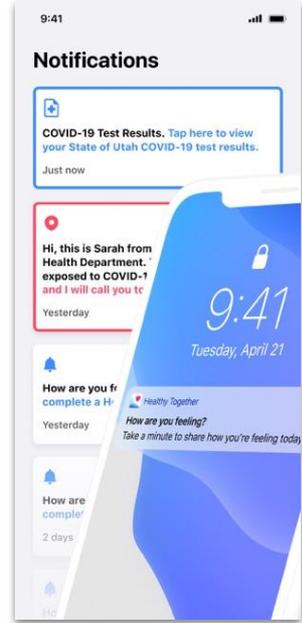
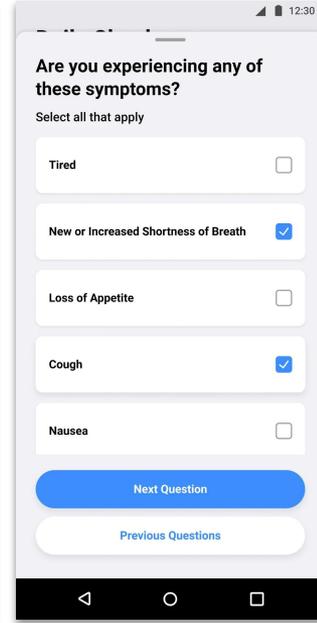
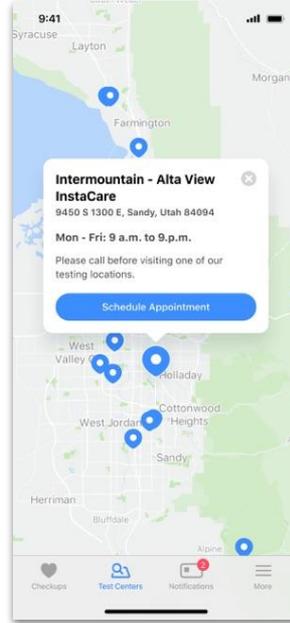
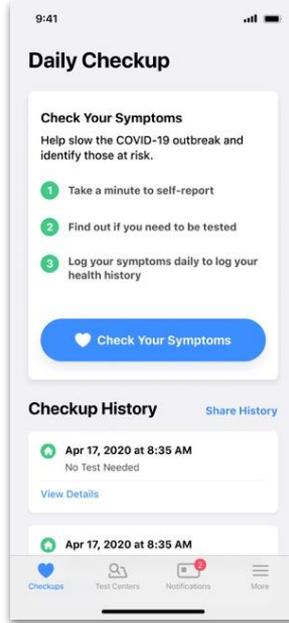
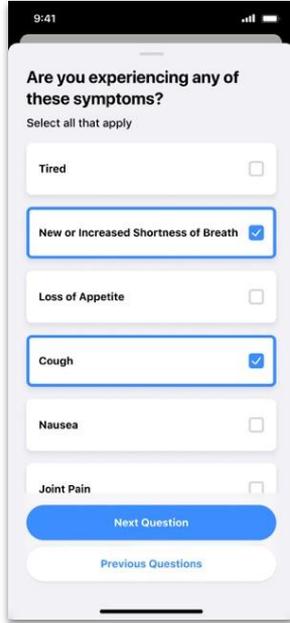
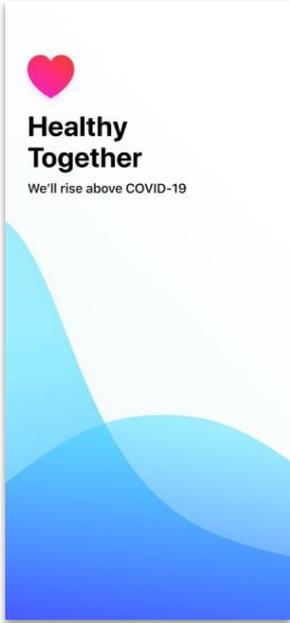


The NHS COVID-19 app's PPE Bluetooth prompt

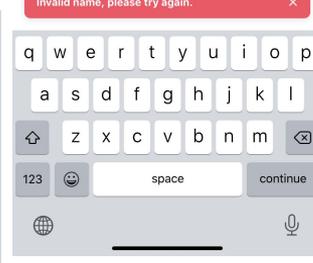
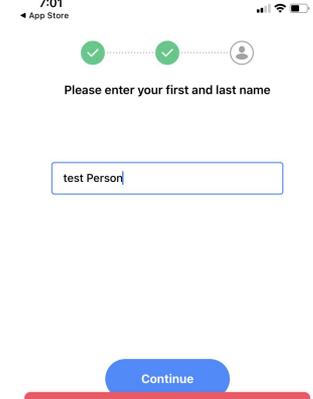
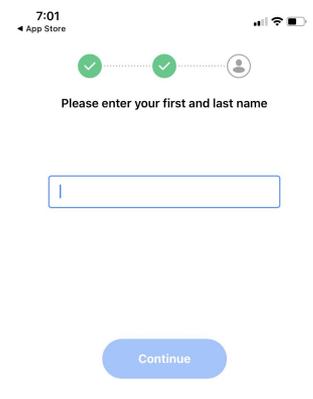
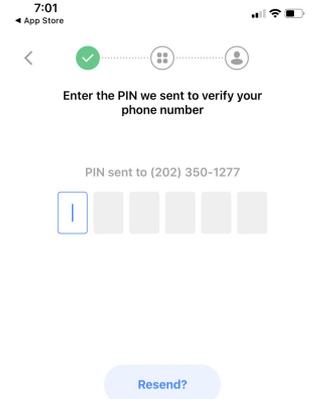
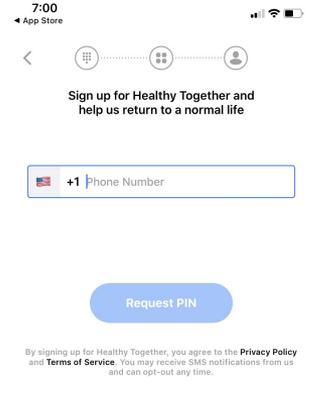
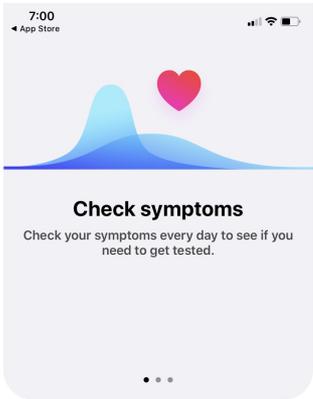
<https://reincubate.com/blog/staying-alive-covid-19-background-tracing/>

Utah - USA

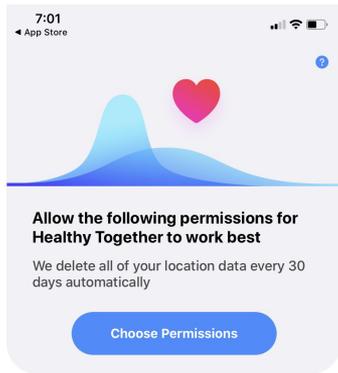
Healthy Together



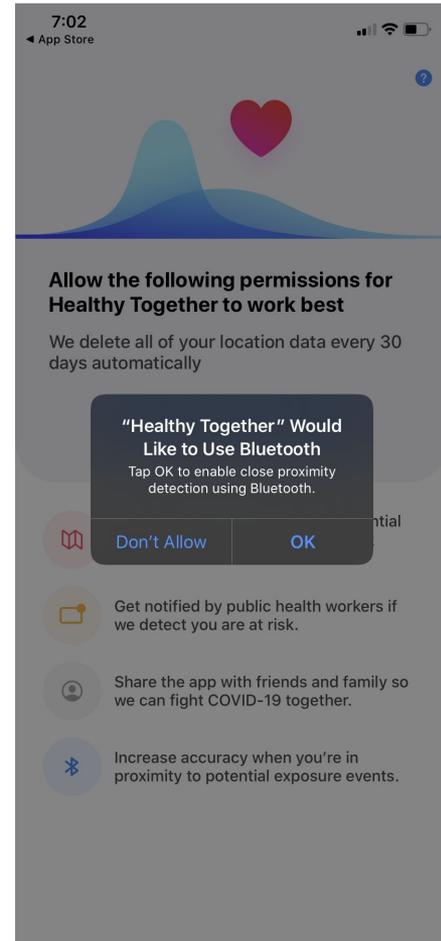
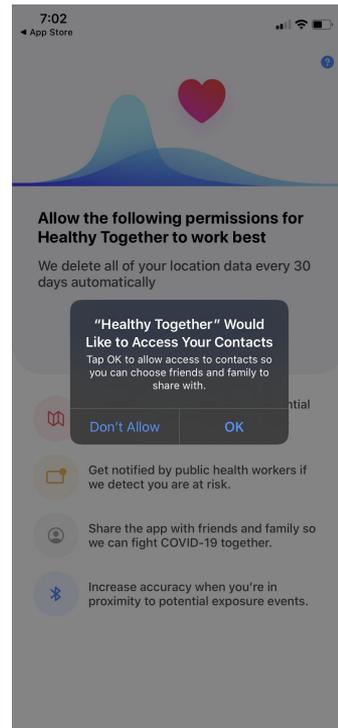
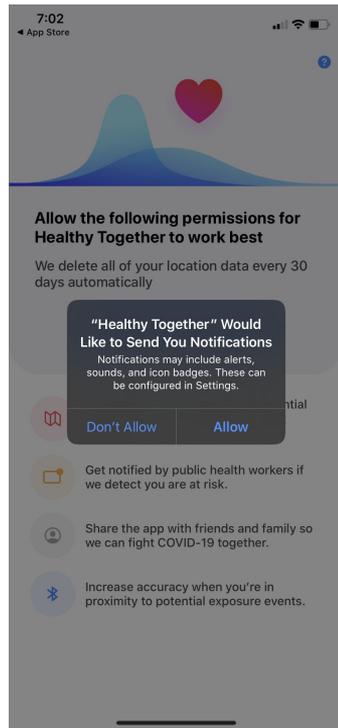
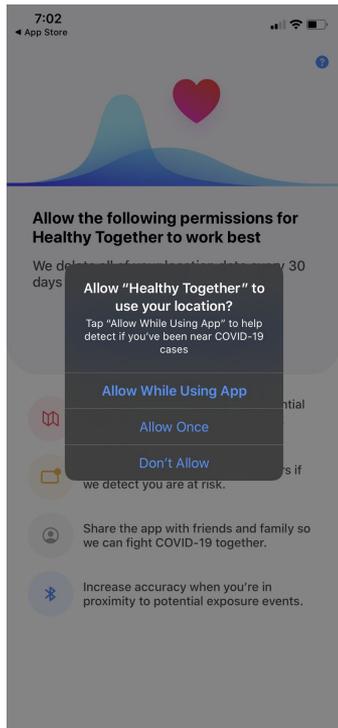
Utah
Healthy Together Beta



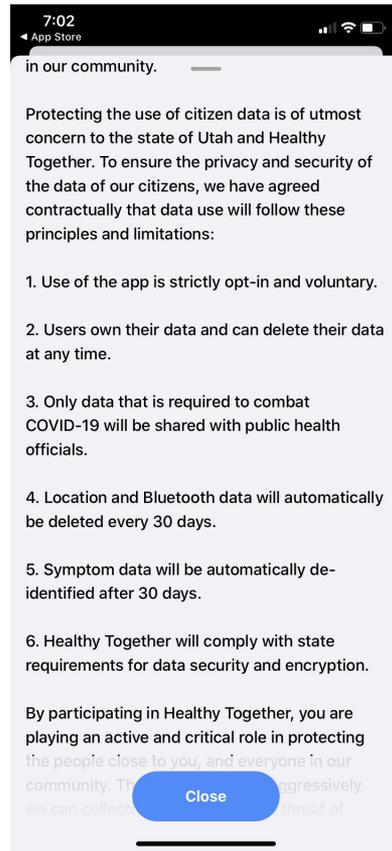
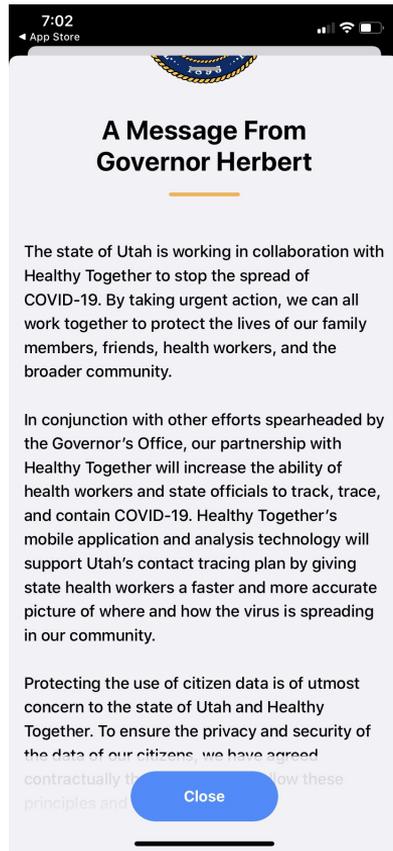
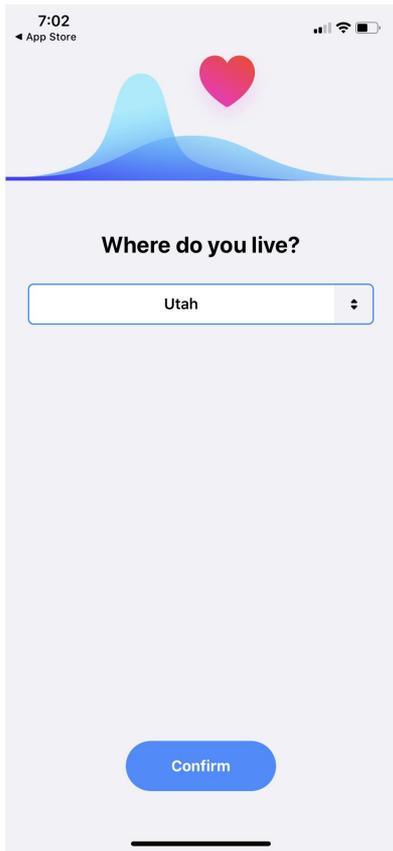
Utah
Healthy Together Beta
iOS app version 1.2.1 on 6/28/20



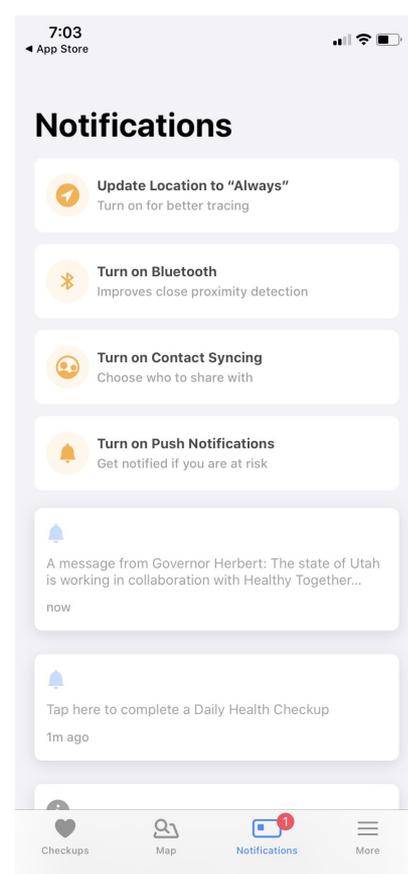
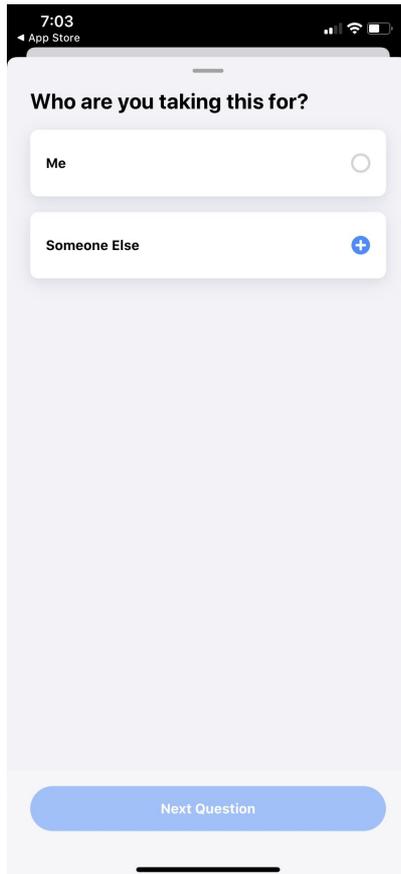
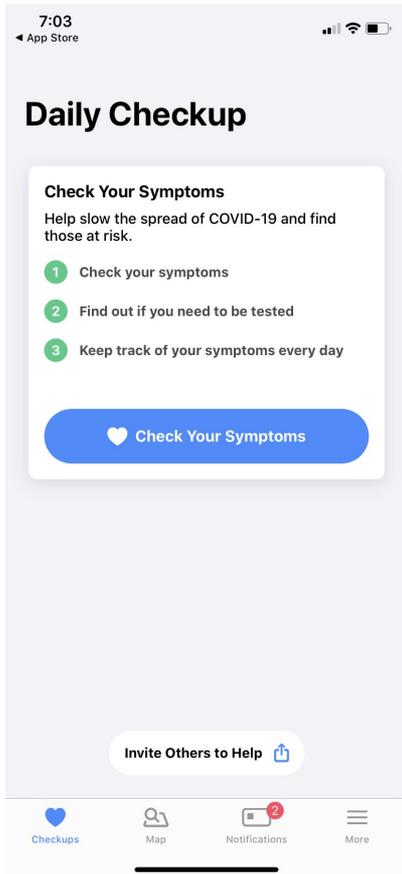
-  Enable location to help detect potential COVID-19 exposure events and risk areas.
-  Get notified by public health workers if we detect you are at risk.
-  Share the app with friends and family so we can fight COVID-19 together.
-  Increase accuracy when you're in proximity to potential exposure events.



Utah
Healthy Together Beta
iOS app version 1.2.1 on 6/28/20



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Healthy Together Beta
iOS app version 1.2.1 on 6/28/20



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Healthy Together Beta
iOS app version 1.2.1 on 6/28/20