

COVID-19 Apps & Systems -

Yet another¹ list of Covid-19 app and system efforts from around the world from and by [Oxford HCC](#)

This (originally internal) document sought to organise the major global COVID-19 app and system efforts to gain an understanding of: 1) what problems are being addressed, 2) major privacy and usability challenges posed by these challenges 3) opportunities for HCI, Privacy and HCI researchers to help.

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¹ Please see: "[Links to other aggregations](#)" at the end of this document.

Why yet another list? - By (re)-creating an aggregation of links we can organise/group/subdivide the list differently than others have, which makes it easier to think about some of these things especially for those of us in a particular domain (HCI/Systems). The drawbacks of course is that it creates information fragmentation, which we are all well aware of; by linking explicitly to the other major open aggregators and drawing from them heavily we hope to keep our list in sync and also bridge them with our own help.

Apps and Systems by Category

Symptom Crowdsourcing

Symptom Crowdsourcing Websites:

- [NHS COVID-19 Status Checker form online](#) (website)
- [UK Police Lockdown Violation Reporter](#) (websites)
- [FluSurvey](#) (website)
- [Cov-Clear Survey](#) (website)
- Netherlands & Belgium - <http://www.grote griepmeting.nl/> (website)
- USA - [Flu Near You](#) (website)
- France - [covidnet.fr: Devenez acteur de la surveillance du Covid19](#)
 - and [Une plateforme pour traiter les patients atteints du COVID-19](#)
- [COVID-19-track.com](#) (website)

Symptom Crowdsourcing Apps:

- ZOE - [COVID Symptom Tracker - Help slow the spread of COVID-19](#) (app)
- [CoEPI: Community Epidemiology in Action](#) (app)
- [MyLogi4](#) (app): Efficiently logging and managing personal data without sacrificing privacy.

Apps

Official State Sanctioned/Government-supported apps²:

These apps seem to offer a mix of functionalities, ranging from Contact Tracing (Singapore, Israel, Indonesia, and South Korea's), Symptom reporting, quarantine enforcement, and health advice:

Nation	App Info	Android	iOS	Functionality	Source
Argentina	Covid-19 Ministerio de Salud	https://play.google.com/store/apps/details?id=ar.gob.coronavirus			
Australia	Coronavirus Australia	https://play.google.com/store/apps/details?id=au.gov.health.covid19	https://apps.apple.com/au/app/coronavirus-australia/id1503846231		
Austria	STOP Corona	https://play.google.com/store/apps/details?id=at.roteskreuz.stopcorona	https://apps.apple.com/at/app/apple-store/id1503717224		
Brazil	Coronavírus - SUS	https://play.google.com/store/apps/details?id=br.gov.datasus.guardioes	https://apps.apple.com/fr/app/coronav%C3%A9rus-sus/id1408008382		
Catalonia	STOP COVID19 CAT	https://play.google.com/store/apps/details?id=cat.gencat.mobi.StopCovid19Cat	https://apps.apple.com/us/app/stop-covid-19-cat/id1502992288		

² Note: some of these apps are contract tracing and others are symptom-gathering; we haven't yet sorted these into buckets

Colombia	CoronApp - Colombia	https://play.google.com/store/apps/details?id=com.gov.ins.guardianes	https://apps.apple.com/co/app/coronapp-colombia/id1502037648		
Espana (Madrid)	CoronaMadrid	https://play.google.com/store/apps/details?id=org.madrid.CoronaMadrid	https://apps.apple.com/es/app/coronamadrid/id1502911576		
Euskadi	COVID-19.eus	https://play.google.com/store/apps/details?id=com.ericetelm2m.colabora	https://apps.apple.com/es/app/covid-19-eus/id1504249338		
Guatemala	Alerta Guate	https://play.google.com/store/apps/details?id=com.intelligent.alertaguate	https://apps.apple.com/us/app/alerta-guate/id1472419119		
India	Aarogya Setu	https://play.google.com/store/apps/details?id=nic.goi.aarogyasetu	https://apps.apple.com/in/app/aarogyasetu/id1505825357		
India (Karnataka)		https://kgis.karsac.in/kgisdocuments/Apk/corona_v1.apk			
India (Kavach)	Corona Kavach, discontinued	old url:- https://play.google.com/store/apps/details?id=com.eosafe.android			
India (Punjab)	COVA Punjab	https://play.google.com/store/apps/details?id=in.gov.punjab.cova	https://apps.apple.com/fr/app/cova-punjab/id1501977319		
Indonesia	PeduliLindungi	https://play.google.com/store/apps/details?id=com.telkom.tracencare			
Iran		https://dl.act9.ir/act9.apk			
Israel	Hamagen	https://play.google.com/store/apps/details?id=com.hamagen	https://apps.apple.com/sg/app/%D7%94%D7%9E%D7%92%D7%9F%D7%99%D7%A4%D7%9C%D7%99%D7%A7%D7%A6%D7%99%D7%94%D7%9C%D7%9E%D7%9C%D7%97%D7%9E%D7%94%D7%91%D7%A7%D7%95%D7%A8%D7%95%D7%A0%D7%94/id1503224314		https://github.com/MohGovIL/hamagen-react-native/issues/97
Italy (Lombardia)	allertaLOM	https://play.google.com/store/apps/details?id=it.lispa.sire.app.mobile.allertalom	https://apps.apple.com/it/app/allertalom/id1455220682		
Mexico	COVID-19MX	https://play.google.com/store/apps/details?id=mx.gob.www	https://apps.apple.com/fr/app/covid-19-jali-sco/id1504356187		
Poland	Home Quarantine (Kwarantanna domowa)	https://play.google.com/store/apps/details?id=pl.nask.droid.kwarantannadomowa	https://apps.apple.com/pl/app/kwarantanna-domowa/id1502997499	Advice	
Qatar	COVI	https://play.google.com/store/apps/details?id=com.droobihealth.corona	https://apps.apple.com/us/app/droobi/id1258209665		
Singapore	TraceTogether	https://play.google.com/store/apps/details?id=sg.gov.tech.bluetrace&hl=en_GB	https://apps.apple.com/sg/app/tracetotgether/id1498276074	Contact Tracing (BLE)	
South Korea	자가격리자 안전보호	https://play.google.com/store/apps/details?id=kr.go.safekorea.sqsm	https://apps.apple.com/gb/app/%EC%9E%90%EA%B0%80%EA%B2%A9%EB%A6%AC%EC%9E%90-%EC%95%88%EC%A0%84%EB%B5%B4%ED%98%B8/id1502372537		
Switzerland	Alertswiss	https://play.google.com/store/apps/details?id=ch.admin.babs.alertswiss	https://apps.apple.com/ch/app/alertswiss/id957339177		
Turkey	Korona Önlem	https://play.google.com/store/apps/details?id=tr.gov.saglik.koronaonlem	https://apps.apple.com/tr/app/korona-%C3%B6nlem/id1503515316		
U.K	COVID Symptom Tracker	https://play.google.com/store/apps/details?id=com.joinzoe.covid_zoe	https://apps.apple.com/gb/app/covid-symptom-tracker/id1503529611	Symptom Reporting	
U.K.	NHSX/Oxford BDI	Not released yet		Contact Tracing	

Uruguay	Coronavirus UY	https://play.google.com/store/apps/details?id=uy.gub.salud.plancovid19uy	https://apps.apple.com/us/app/coronavirus-uy/id1503026854		
Vietnam	COVID-19	https://play.google.com/store/apps/details?id=com.Eha.covid_19	https://apps.apple.com/us/app/covid-19/id1501810040?ls=1		

Independent (Non-State/Government Sanctioned)

- MIT Media Lab: [MIT SafePaths](#)
- Stanford + Waterloo : [COVID Watch](#)
- [CoronaTrace](#) on GitHub (not sure who is behind it)
- [BanDemic](#) - German effort - BLE / Bluetooth, not open source
- [InfectionChain](#) - QR code based
- [NextTrace](#) -from Trevor Bedford (Fred Hutchinson Cancer Research Centre) - app not yet available
- [WeTrace](#)
- [OpenDemic](#) (app/GPS)
- [HowWeFeel](#) (App/GPS)
- Sensyne?

Dashboards³

- MS [Bing COVID-19 Tracker](#)
- [Public Health England COVID-19 Tracker](#)
- <https://coronavirus.jhu.edu/map.html>

Quarantine Tracking/Enforcement

- [Covid-Flutter](#) - Active quarantine app for registering those in quarantine and for actively reporting people's locations, independent developer in India

Crowdsourcing Policies

- Blavatnik [Oxford COVID-19 Government Response Tracker](#)
- Stanford Social Distancing rollout across US counties
<https://socialdistancing.stanford.edu/>

Health Guidance

- [WHO App](#) - App for disseminating official health guidance to the world in many languages
- [Coronabot](#) - Chatbot disseminating WHO and JHU advice

³ There are so many of these! Not sure we want to capture them all

Not apps : Whitepapers, Analyses, Requirements, and Protocols

Epidemiological perspectives

- Science - [Quantifying SARS-CoV-2 transmission suggests epidemic control with digital contact tracing](#) Oxford BDI / Wellcome Trust
- [Policy forum - COVID-19 containment by herd protection](#) - Oxford BDI
- Harvard: [Outpacing the Virus: Digital Response to Containing the Spread of COVID-19 while Mitigating Privacy Risks](#)

Privacy aspects and requirements

Privacy Analyses of COVID apps and systems

- Imperial Computational Privacy Group: [Evaluating COVID-19 contact tracing apps? Here are 8 privacy questions we think you should ask.](#)
- [Privacy International : Tracking the Global Response to COVID-19](#)
- [Forensic Defensive Lab Agency - COVID-19](#)

Privacy-Preserving Protocols

- [PEPP-PT](#) + [DP-3T](#) : Consortium of people (government, EU initiatives)
 - subset of group prefer a decentralised solution to a centralised one
 - cryptographers and privacy advocates favour a decentralised one; those who are making the decision are in favour of a centralised implementation for ease of data use and implementation
- [PPDT](#) - Privacy Preserving Disease Tracking
- Jaap-Henk Hoepman: [Hansel and Gretel and the Virus: Privacy Conscious Contact Tracing](#)

Privacy Requirements for Contract Tracing Apps

- [CCC "10 Requirements of Contact Tracing apps"](#)

Further ethical and responsibility issues:

- Consent to participate: are the terms and conditions presented in a way that can be easily understood?
- Protection of children and vulnerable citizens: are there mechanisms to stop them signing up and using the app/site if they are unable to fully understand what is involved and its potential consequences?

- Are users of the app/site providing information only about themselves or also about others – who may not wish to be involved and may not know that information about them is being given?
- What other personal/private information (beyond symptoms etc.) is being collected – even if unintentionally?
- Disadvantages for those who are less technically literate. For instance, if they do not know how to set privacy features on their devices, they may be at a greater risk of invasion of privacy when using the tool
- Access to smartphones and online connection is not universal. Will those who are unable to afford them or live in remote areas with poor Internet connections be disadvantaged if they are not able to use an app - for instance one that provides accelerated/more streamlined care?
- Health and illness are deeply bound up with normative issues across societies. There are stigmas associated with certain health conditions and health behaviours. There is a risk that tracking/monitoring tools can contribute to these stigmas unintentionally – e.g. labelling people who are not performing ‘well enough’ at social distancing or who have passed on infections.
- All tools need to be assessed within the context of their use. Different countries and social groups often have different social practices and norms – as well as laws – that will shape how the tools are used and the impacts that they have.

Links to other resource aggregations

- [fsoci31y.com COVID-19 Apps](https://fsoci31y.com)
- Alan Turing Institute's [COVID-19 Pandemic Symptom Trackers and Calendars](#)
- [Coronavirus Tech Handbook](#) - relevant sections:
 - [Self-reporting and Tracing Tools](#)
 - [Technologist Collectives](#)
 - [Tools for Volunteering and Organising](#)
- [CodevVsCOVID-19](#)
- [CovTech.Ventures](#)
- SOLID project - [Let's do our bit to tackle covid-19 together](#)
- SOLID project - [Apps and Hackathons](#)
- [Github COVID-19 Tracing Projects](#)
- [Unified research on privacy-preserving contact tracing and exposure notification for COVID-19](#)

TODO - Help - Please help merge in the brilliant work from the Defensive Lab Agency's [COVID-19 Apps List](#)

name	appid	trackers	detections
Coronavírus SUS	br.gov.datasus.guardioes	1 tracker(s)	8 detection(s)
COVID19 CAT	cat.gencat.mobi.StopCovid19 Cat	1 tracker(s)	9 detection(s)
Alertswiss	ch.admin.babs.alertswiss	3 tracker(s)	
CoronApp	co.gov.ins.guardianes	7 tracker(s)	17 detection(s)
AC19	co.health.covid	1 tracker(s)	13 detection(s)
COVID-19	com.Eha.covid_19	5 tracker(s)	28 detection(s)
Ada	com.ada.app	4 tracker(s)	17 detection(s)
СоцМониторинг	com.askgps.personaltrackerr ound	2 tracker(s) 19 detection(s)	
Quarantine Watch	com.bmc.qrtnwatch	0 tracker(s)	9 detection(s)
Corona Kavach	com.cosafe.android	0 tracker(s)	12 detection(s)
COVI	com.droobihealth.corona	2 tracker(s)	16 detection(s)
COVID-19.eus	com.ericelm2m.colabora	2 tracker(s)	9 detection(s)
מגן	com.hamagen	1 tracker(s)	20 detection(s)
COVID-19Tracker	com.healthlynked.hlvt	2 tracker(s)	16 detection(s)
Alerta Guate	com.intelligent.alertaguate	4 tracker(s)	15 detection(s)
COVID Symptom Tracker	com.joinzoe.covid_zoe	10 tracker(s)	24 detection(s)
Corona Watch	com.ksrsac.drawshapefile	0 tracker(s)	10 detection(s)
DeltaEarth	-	4 tracker(s)	15 detection(s)
Coronavirus Tracker	com.outsystemscloud.miguel antunes.Coronavirus	1 tracker(s)	9 detection(s)
COVID-19	com.pixxonai.covid19	0 tracker(s)	7 detection(s)
PeduliLindungi	com.telkom.tracencare	0 tracker(s)	13 detection(s)
NCOVI	com.vnptit.innovation.ncovi	1 tracker(s)	9 detection(s)
CoronaNow	coronanow.kr	3	13 detection(s)

		tracker(s)	
Coronavirus (COVID-19) Tracking - Online Map - News	covid19.page	3 tracker(s)	13 detection(s)
PrivateKit	edu.mit.privatekit	0 tracker(s)	14 detection(s)
Covidom	fr.aphp.covidom	1 tracker(s)	10 detection(s)
CDC	gov.cdc.general	3 tracker(s)	15 detection(s)
LIVI	health.livi.android	7 tracker(s)	31 detection(s)
COVID19	id.rizmaulana.covid19	1 tracker(s)	9 detection(s)
COVA	in.gov.punjab.cova	1 tracker(s)	9 detection(s)
ADiLife C-19	it.adilife.covid19.app	0 tracker(s)	8 detection(s)
CoronaMadrid	org.madrid.CoronaMadrid	2 tracker(s)	19 detection(s)
Kwarantanna Domowa	pl.nask.droid.kwarantannado mowa	7 tracker(s)	16 detection(s)
Corona Virus Tracker	studio.coronavirus.covid19	1 tracker(s)	9 detection(s)
Coronavirus UY	uy.gub.salud.plancovid19uy	2 tracker(s)	18 detection(s)