Description:
Covid Community Alert is an Open-Source world-level standard proposed by a global community to provide a service that allows the monitoring of interactions among devices in a totally anonymous fashion. This will help reduce the spread of the virus by alerting people at risk sending them a clear set of instructions to reduce the contagious and receive their treatments as soon as possible.

The interoperability among countries is essential to protect people when the lockdown will be over.
People from all around the world will be travelling from one country to the other and we need to be able to create a world-level protocol that can accommodate all the different scenarios we could face - in the US the iPhone market share is higher than 50% and most of the proposed solutions don't work for iOS.

The open-source implementation of the proposed standard is already comprehensive of the full stack:

- Infrastructure
- Backend
- Roaming protocol
- iPhone and Android user applications (CovidApp)
- iPhone and Android doctor applications (CoviDoc)
- Virologist Internal Panel

We also provide the open-source code and the support to deploy the infrastructure on servers owned by each country.
Each open-source component - as well as the rules set by the virologists to identify people at risk - can be changed and adapted to different regulation or use cases that might differ from country to country.

In Europe, where the iPhone market share is 27.5%, this proposal would be able to monitor 91-99% of interactions vs 71% of other solutions (up to 38% more) and ensure full anonymity and interoperability among countries.

We are currently using this service as the backbone for a constellation of other services:

- Shielding: we are integrating projects that will help to protect vulnerable people by ensuring them that other healed or not-infected people will take care of them.
- Genetic evolution of the virus: we are adding to the open-source project the possibility for the doctors to add details of the genetic information about the virus detected in the patients.
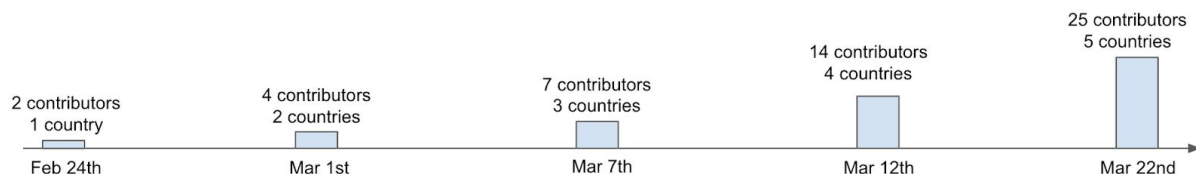
How it works:

1. Every mobile device has a unique and anonymous numeric ID, that can be read at distance using the Bluetooth LE technology.
2. Covid Community Alert continuously scans your surroundings and collects the IDs of the phones near you, storing them in a secure centralized cloud database. No interactions between the users and the app are needed.
3. Medical and emergency authorities daily update the database with the IDs of the devices belonging to confirmed Coronavirus infected individuals.
4. If you have been in the proximity of an infected person during the last 14 days you will be notified and get clear instruction on the next steps to follow, also depending on the estimated exposure to the virus from the infected person.

About us:
All the produced code necessary for the functioning of the service is open source and available online for review: Coronavirus Outbreak Control.
Our organization is called Coronavirus Outbreak Control Ltd. and the team quickly expanded starting from 1 country and 1 founder up to ~30 experts that are voluntarily contributing from 5 different countries and two continents.

We are receiving requests to contribute to our project on a daily basis.

The team has a multidisciplinary background: 10+ years of experience in distributed architectures and mission-critical software, founders and lead developers already worked together in the past building worldwide solutions for international partners, such as Airbnb, Google and Microsoft.

Contacts
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