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## g09: V Tracker

### 1. Description of the application

The V Tacker app allows users to see other infected users' locations so they can be aware of the zones they might have to pass by. The user creates an account and the app tracks his positions over time. The user can change his status if he is infected so the other users can be made aware about him.

After an initial page for the sign in, that uses the Google Firebase environment, we have a left sidebar with 6 sections:

#### 1. Home

Uses a **map** from Google Maps to display the position of the current user and the last known locations of the other users, if they are infected. This involves the use of the **GPS** to get the current location, the **firebase** db to store these locations and the **accelerometer** to understand if the mobile device is moving and, if not, avoid to store the new location in the database.

#### 2. Report an infection

Shows a list with the symptoms of the COVID-19, and gives the possibility to change the user status (from HEALTHY to INFECTED or vice versa). This happens through the scanning of a **QR code**, that only COVID-19 doctors are supposed to have (this validates the reliability of the declaration). [the QR code is in the project folder (qr-infected and qr-healthy, to change status)]

### 3. COVID-19

**Webview** of the website <https://www.worldometers.info/coronavirus/>, with all the most updated info regarding the disease all over the world.

### 4. User Tracker Info

List with the positions of the current user over the time.

### 5. Sign Out

Button to logout from the system and go back to login

### 6. Info on this App

Information regarding the application.

## 2. Specific contributions

Functionalities	Fabio Cecchinato	Rui Silva	Tiago Feitor
User Interface	80%	0%	20%
Show the map and get the current position	60%	0%	40%
Show list with positions of user tracked by the app (user tracker info)	0%	90%	10%
Change the infected status of the user with QR code validation	50%	0%	50%
Accelerometer to check whether the device is moving	100%	0%	0%
Store the locations in	0%	100%	0%

the database			
User authentication	0%	100%	0%
Get the locations from the database	0%	100%	0%
Show on the map the latest position of the infected users	0%	0%	100%
Show the current statistics of COVID-19 in a WebView	100%	0%	0%
<b>Overall</b>	<b>35%</b>	<b>35%</b>	<b>30%</b>