

## Dharshini V

Developmet of an android application viewing COVID-19 containment zones and monitoring violators who are trespassing into it using firebase and geofencing

User receices notification on entering a containment zone

Closest 100 containment zones to the user are set with geofences

Containment shown on a google map and COVID-19 statistics on a bottom sheet

## Dhivakaran T

Data snapshot from firebase for new data or data snapshot from cache

Welcome screen and messege screen displaying

Statistics data from restful API

This android application updates the location of the areas in a google map which are identified.

## Dinesh C

The app should have user registration and login.After the user logged into the app it will track the user location and update the database with the current location.If the user is visiting the containment zone it will alert.

Creating the web socket which transfers data at higher speed than http

Geofencing technology senses the user's current location and checks whether the location is containment zone or not

Person in containment zones with the time of entry the time of receiving notification alerts in the android application and the extracted IMEI number of the trespasser in the corresponding containment zones which is uploaded to the online database

## Dinesh K

The application provides an efficient way of showing the containment zones to the user even in a google map

A collection is created in a cloud firestore with containment zones as documents

The application as been tested in various locations and has been found to yield accurate results

Markers and circles are set using the location coordinates and radius and tags are supported by the application