LITRATURE SURVEY

1) Development of An Android Application for Viewing Covid-19 Containment Zones and Monitoring Violators Who are Trespassing into It Using Firebase and Geofencing

Mallik, R., Hazarika, A.P., Ghosh Dastidar, S. et al. Development of An Android Application for Viewing Covid-19 Containment Zones and Monitoring Violators Who are Trespassing into It Using Firebase and Geofencing. Trans Indian Natl. Acad. Eng. 5, 163–179 (2020).

In a densely populated country like India, it is very difficult to prevent the community transmission even during lockdown without social awareness and precautionary measures taken by the people. Recently, several containment zones had been identified throughout the country and divided into red, orange and green zones, respectively. The red zones indicate the infection hotspots, orange zones denote some infection and green zones indicate an area with no infection. This paper mainly focuses on development of an Android application which can inform people of the Covid-19 containment zones and prevent trespassing into these zones. This Android application updates the locations of the areas in a Google map which are identified to be the containment zones. The application also notifies the users if they have entered a containment zone and uploads the user's IMEI number to the online database. To achieve all these functionalities, many tools, and APIs from Google like Firebase and Geofencing API are used in this application. Therefore, this application can be used as a tool for creating further social awareness about the arising need of precautionary measures to be taken by the people of India.

2) Tracking the Covid zones through geo-fencing technique

R., A.A.R., R., L., G., H. and N., L. (2020), "Tracking the Covid zones through geo-fencing technique", International Journal of Pervasive Computing and Communications, Vol. 16 No. 5, pp. 409-417

The areas where people are affected are marked as containment zones and people are not allowed to exit out of those areas. Similarly, new people are not allowed to enter inside those areas. Hence, the purpose of this paper is to propose a methodology to track the Covid zones, to enhance and tighten the security measures. A geo-fence is created for the containment zone. The person who enters or exits out of that particular zone will be monitored and alert message will be sent to that person's mobile.

3) COVID-19 Risk Management: A Mobile Application to Notify Alerts and Provide Real-Time COVID-19 Updates

Innovative Data Communication Technologies and Application, 2021, Volume 59, ISBN : 978-981-15-9650-6, Jannaikode Yashwanth Kumar, Nenavath Srinivas Naik

A mobile application-based solution is proposed for risk management of COVID-19. The objective of the proposed model is to help people with the status of cases in their region. The proposed model notifies the user regularly about the COVID-19 cases in nearby locations which help him/her to be cautious. Android studio and Google Firebase are used to develop the mobile application. COVID-19 information and state-wise cases are updated in the database regularly, and users are notified. The results are good in terms of response time and delivery of static alerts.