CONTAINMENT ZONE ALERT APPLICATION

Problem Statement:

People travel to different places unaware of the fact that it is a COVID-19 containment zone and hence don't take necessary precautions. As a result, the people getting inside a containment zone are at a higher risk of getting affected by the disease.

Admin App (portal):

They should login to the app and update the containment zones locations in the portal. Based on the location a Geofence will be created within a 100 meters radius.They should be able to see how many people are visiting that zone.

User App (Mobile App):

The app should have a user registration and login. After the user logged into the app it will track the user's location and update the database with the current location. If the user is visiting the containment zone he will get an alert notification.

Solution Requirement:

The project aims at building an application that provides information about the containment zones of a particular region by continuously monitoring an individual's location. Location of the individual must be stored in the Database. Alerts are sent using the notification service.

Who does the problem affect?	People who are traveling to places being unaware of COVID Containment Zones.
What is the issue?	If people get into a COVID containment zone, there arises a high risk for them getting into contact with an affected person and thereby it results in the transmission of the disease.
When does the issue occur?	When a healthy person gets into contact with an affected person living in a COVID prone area.
Where does the issue occur?	Getting affected by COVID might occur anywhere. Nonetheless, the risk of getting affected by the disease would be very high in Containment Zones.
Why is it important that we fix the problem?	It is important that we fix the problem that people become aware of Containment Zones and stay away from them to protect themselves from COVID-19
What solution to solve this issue?	An Alerting application that delivers instant alerts whenever a person enters a COVID Containment Zone.
What methodology used to solve the issue?	Geofencing of Containment Zones, Constant location monitoring of the users of the application, and instant alert delivery.