

Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID42572
Project Name	Containment zone Alerting Application
Maximum Marks	4 Marks

Solution Architecture:

Abstract :

This application is intended to provide information about containment zones in a particular region by alerting people, through continuous monitoring of an individual's location using mobile app. Key benefits of the application are monitoring people's activity and alerting them of their safety movements. The officials can monitor the user's activity from their admin panel.

Work flow :

Admin Panel – Website

User App – Mobile App

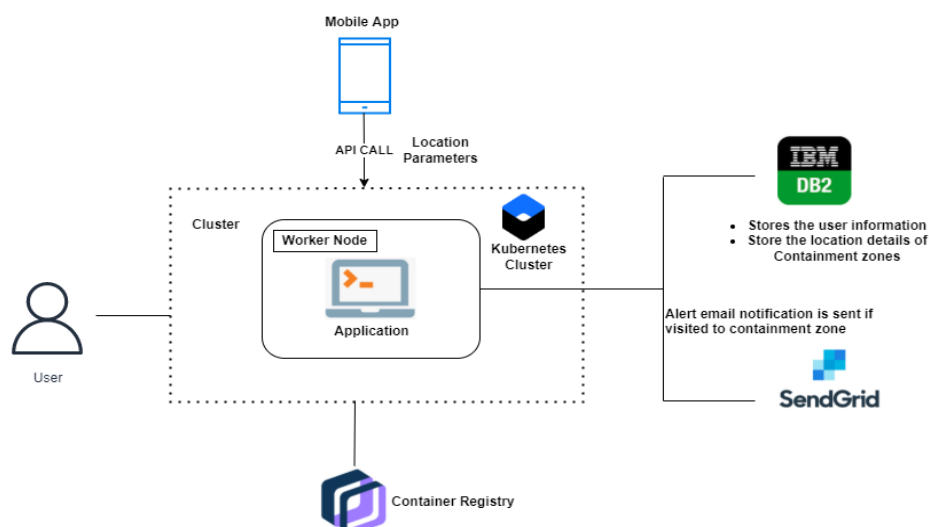
Admin App (portal):

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

User App (Mobile App):

- ✓ The app will 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/she will get an alert notification.

Example - Solution Architecture Diagram:



Containment Zone Alerting Application

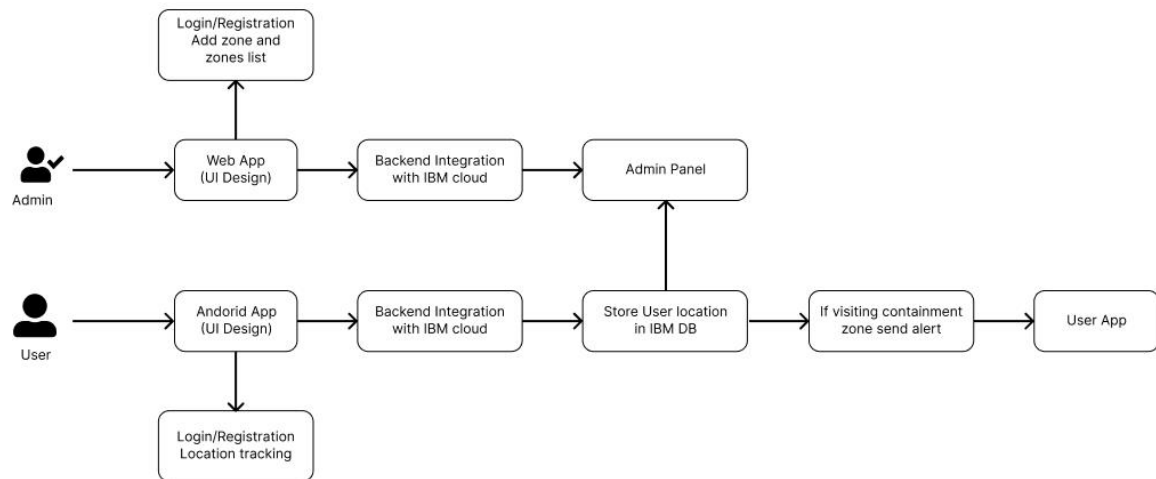


Figure 1: Architecture and data flow of the containment zone alerting application

Reference: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7328652/>