CONTAINMENT ZONE ALERTING APPLICATION

TEAM ID: PNT2022TMID21330

Category: Cloud app development

TEAM MEMBERS

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PROBLEM STATEMENT

With COVID-19 alarming surge of affected cases throughout the world, lockdown and awareness (social distancing, use of masks, etc) among people are found to be the only means of restricting community transmission. In a densely populated country like India, it is very difficult to prevent community transmission even during lockdown without social awareness and precautionary measures taken by the people. It will be helpful to safeguard the people if we have some application that will tell us about the condition of the locality regarding COVID

Skills Required:

IBM Cloud, HTML, JavaScript, IBM Cloud Object Storage, Python-Flask, Kubernetes, Docker, IBM DB2,IBM Container Registry

Project Description:

Project Idea:

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. Key benefits of the application are monitoring people's activity and alerting them of their safety movements.

Solution Requirement:

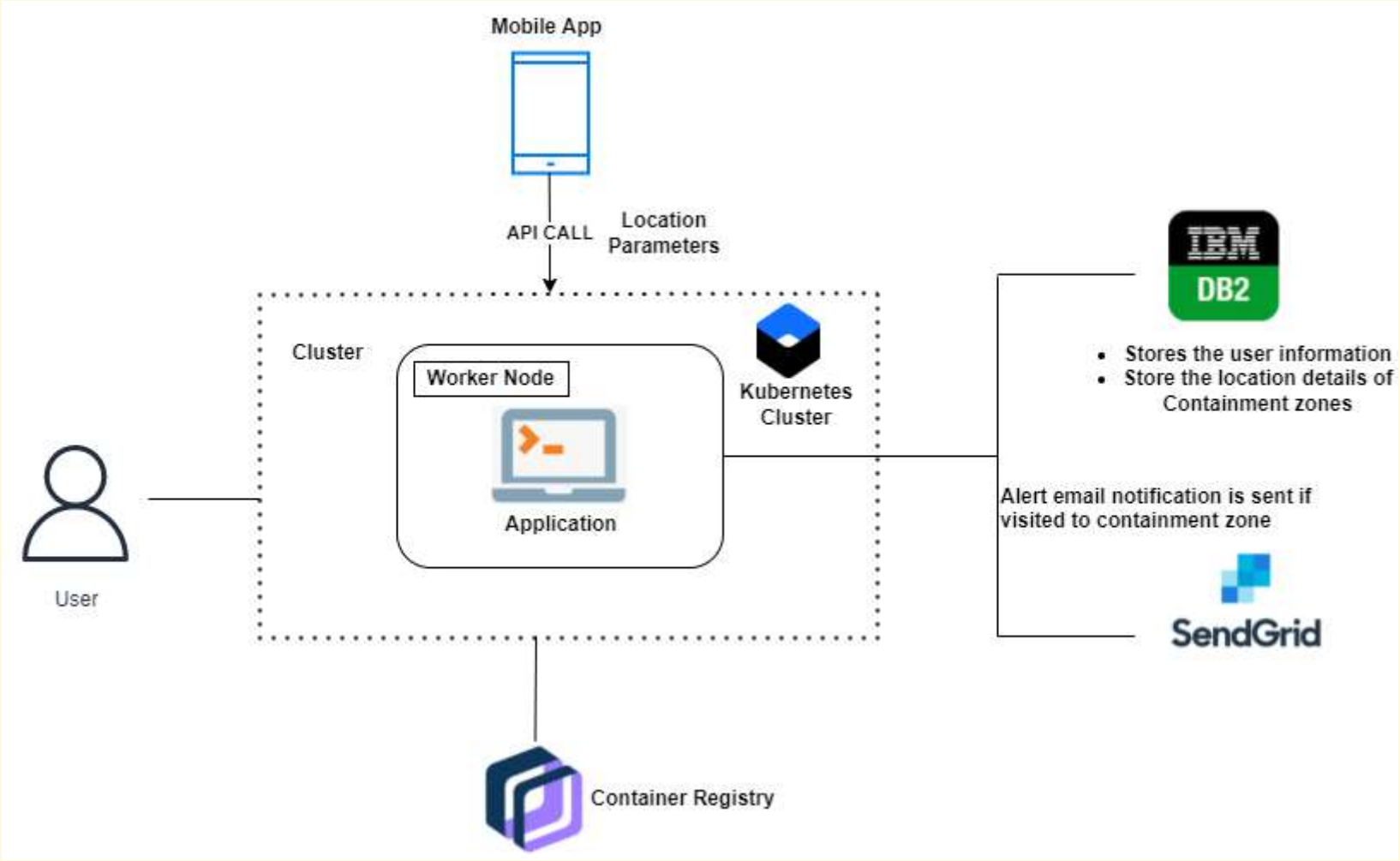
The project aims at building an application that provides information about the containment zones of a particular region by continuously monitoring an individual's location. Location of the individual must be stored in the Database. Alerts are sent using the notification service.

Features of the Application

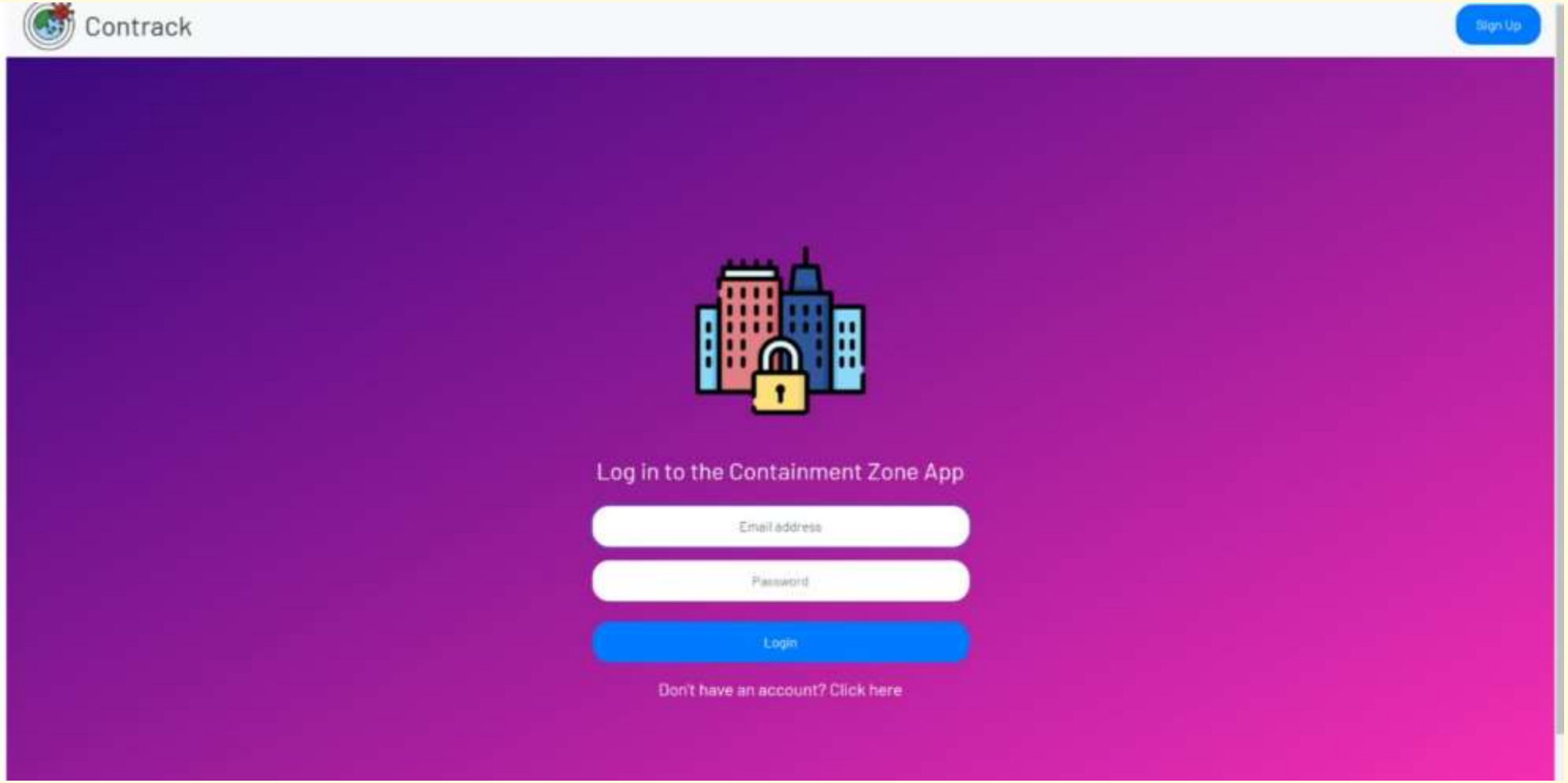
Admin App (portal):
They should login to the app and update the containment zones locations in the portal. Based on the location a Geofence will be created within a 100 meters radius. They should be able to see how many people are visiting that zone.

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.

Technical Architecture:



IMPLEMENTATION:
ADMIN WEB APP:



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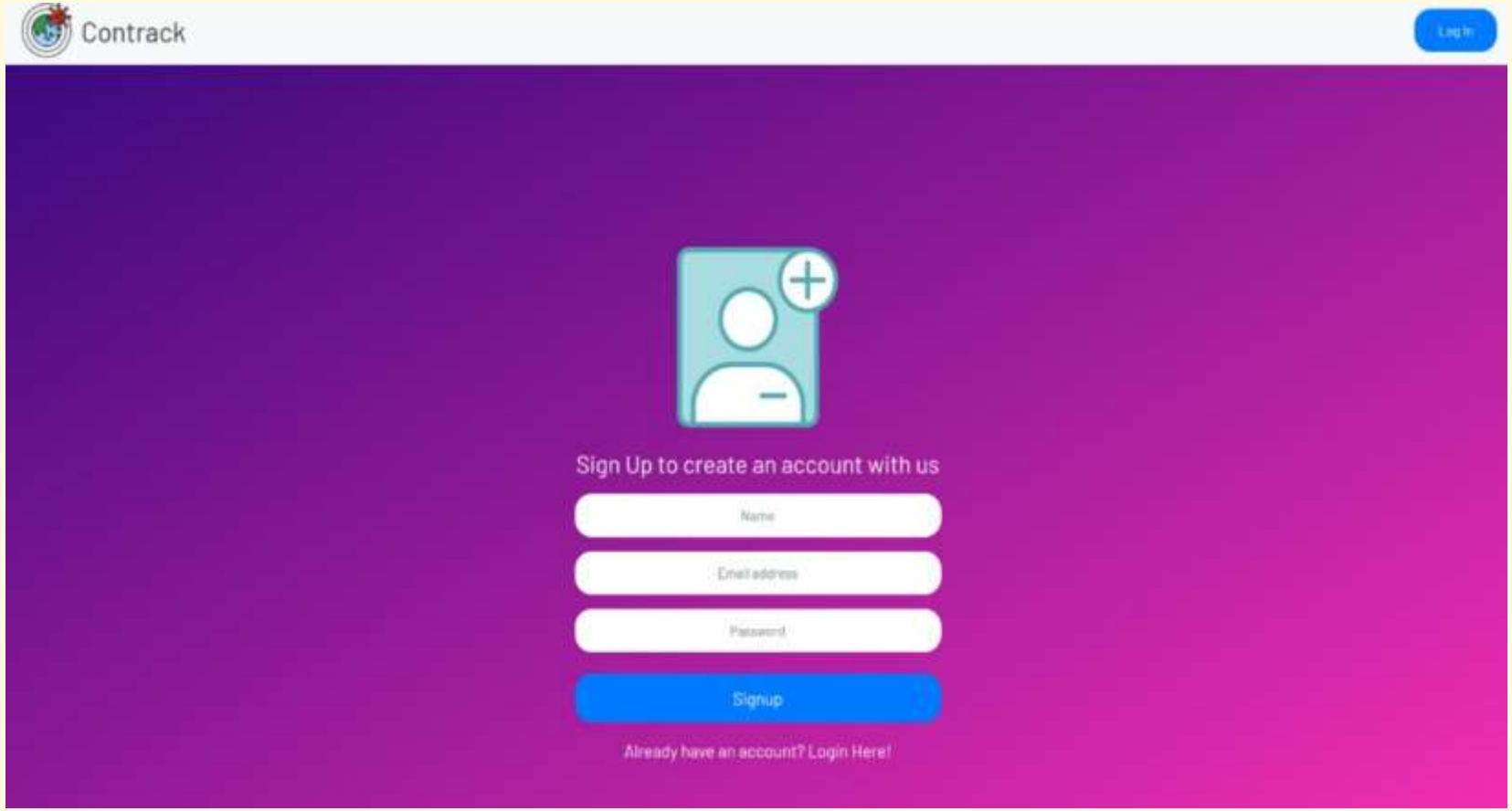
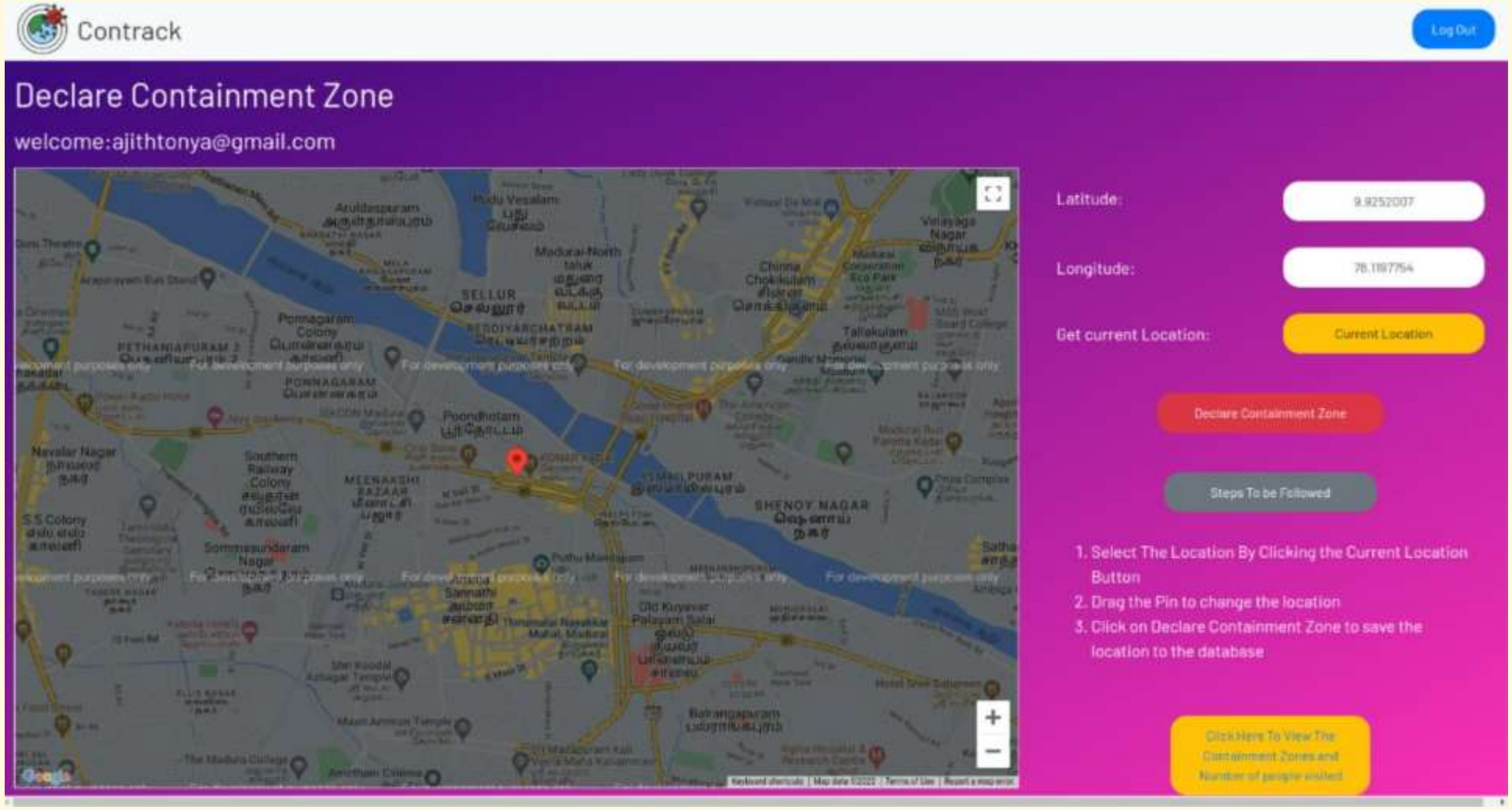
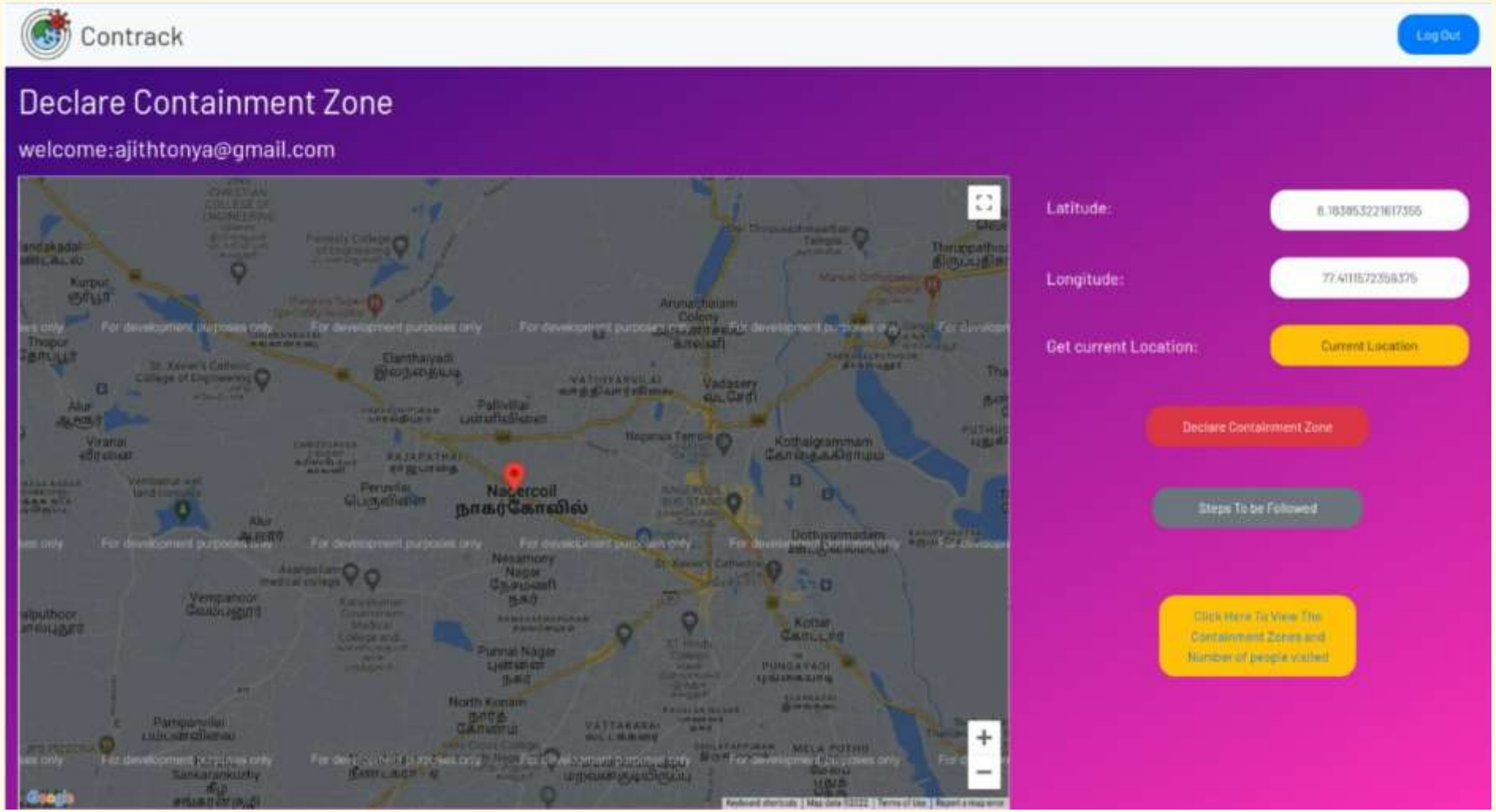
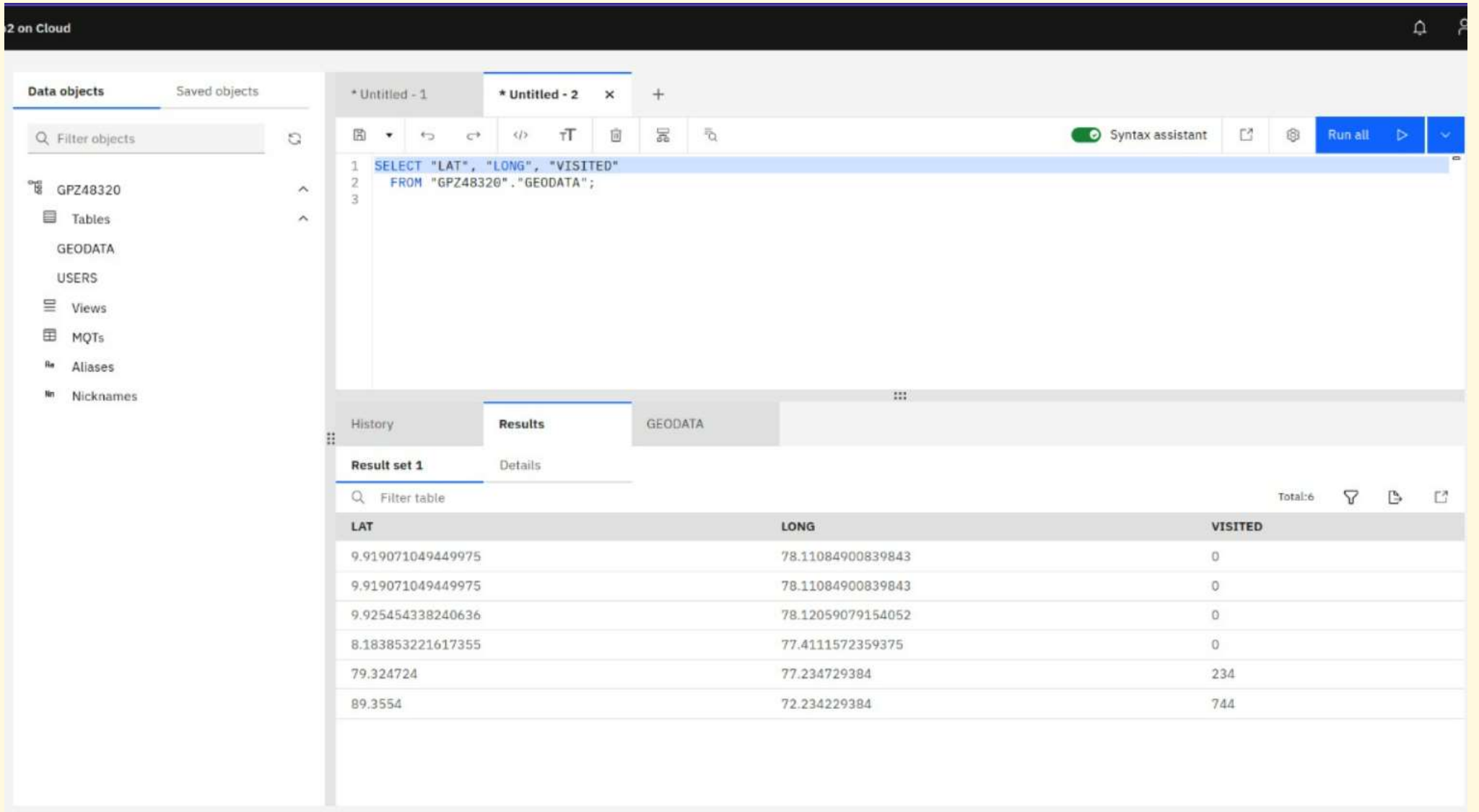

Contrack
Log In
Sign Up to create an account with us
Name
Email address
Password
Signup
Already have an account? Login Here!

DECLARING CONTAINMENT ZONE

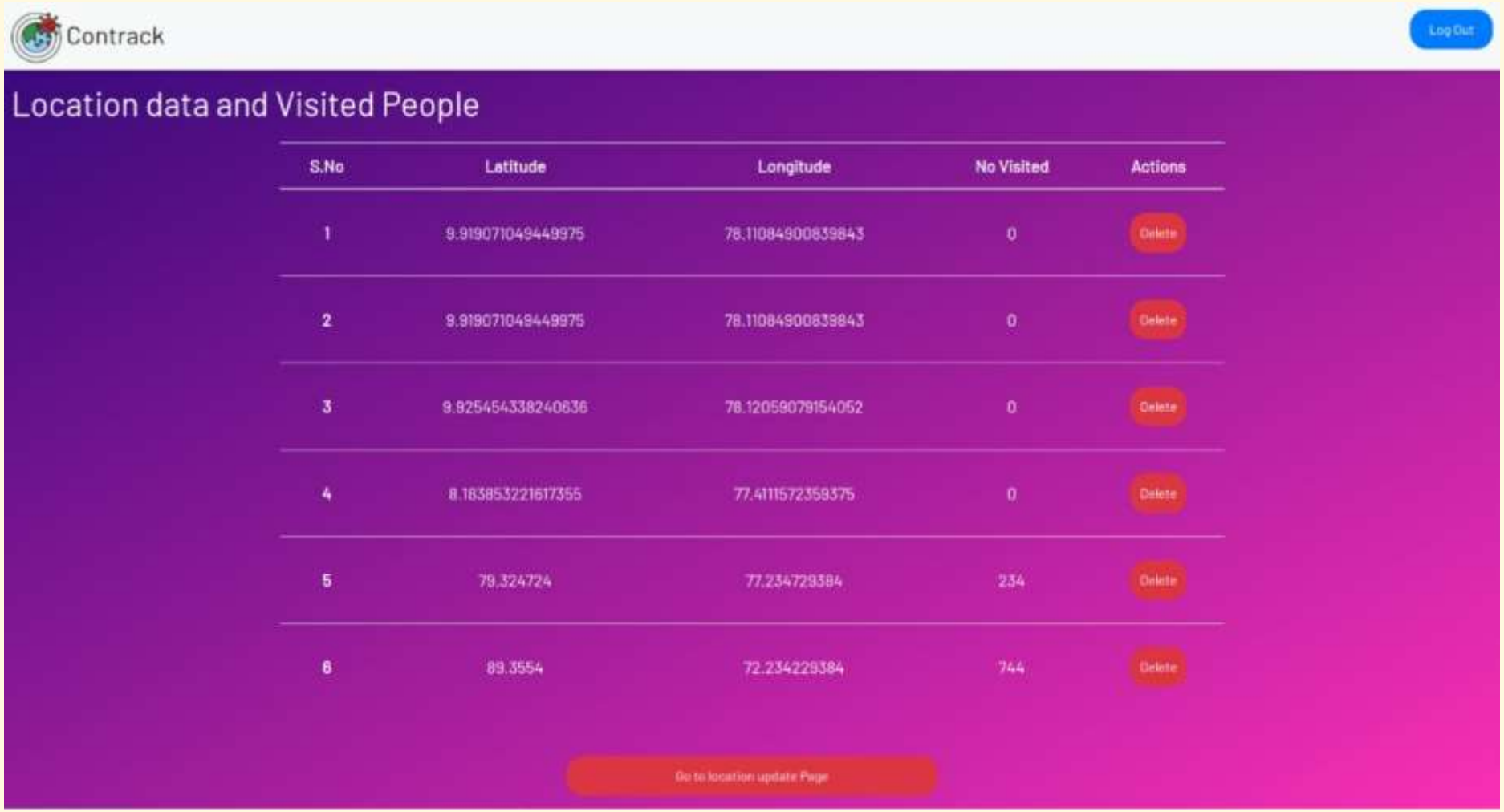



Contrack
Log Out
Declare Containment Zone
welcome:ajithtonya@gmail.com
Latitude:
8.183853221617355
Longitude:
77.41116723583175
Get current Location:
Current Location
Declare Containment Zone
Steps To be Followed
Click Here To View The Containment Zones and Number of people visited
Nagercoil
நாகர்கோவில்

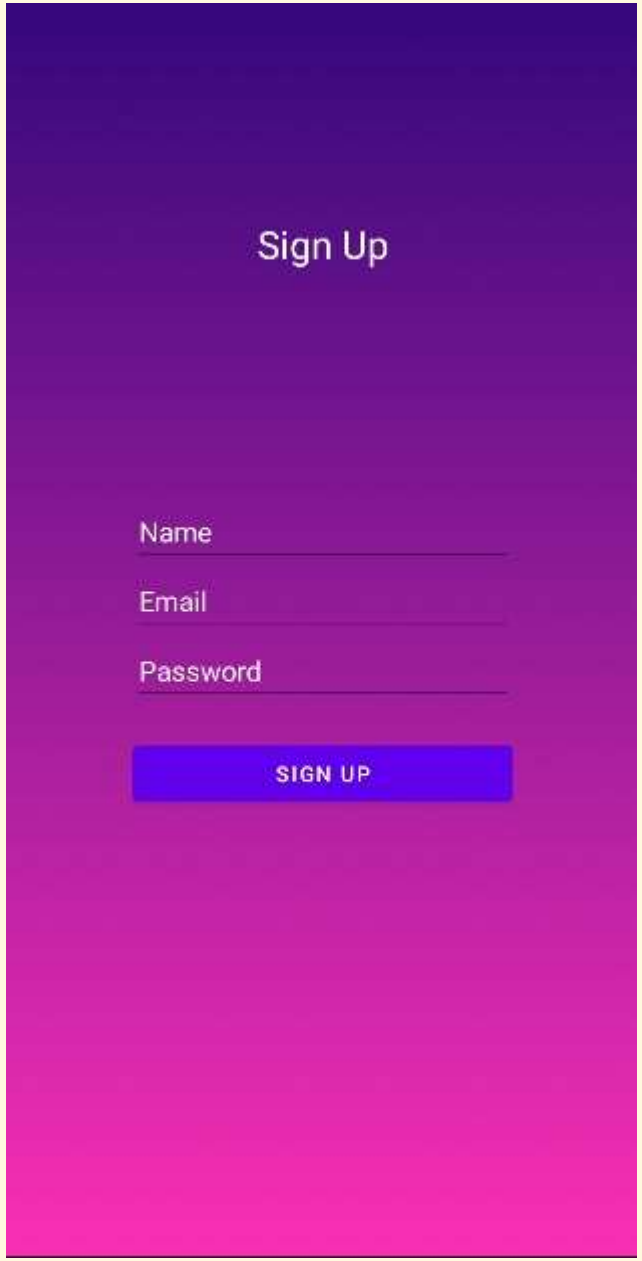
DB CONNECTION

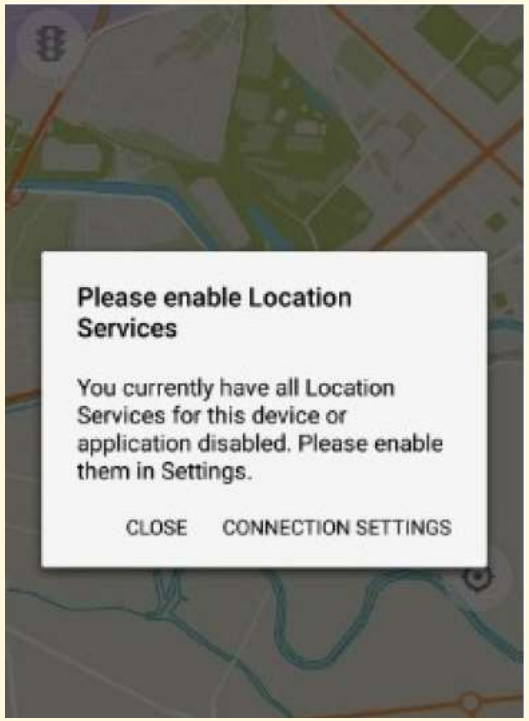


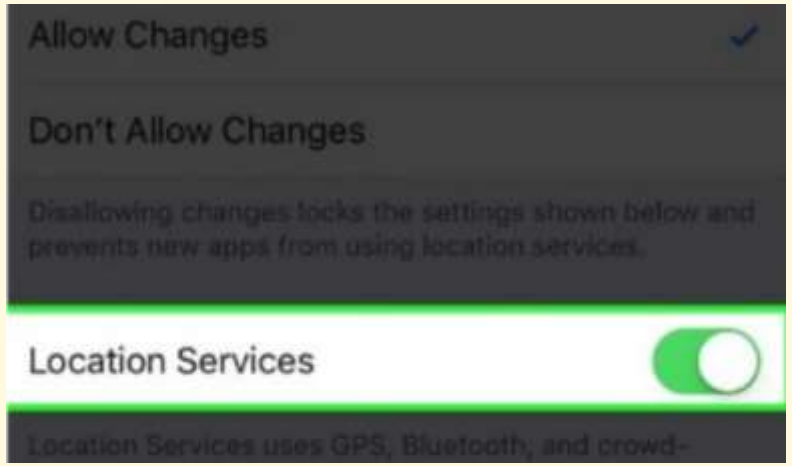
HISTORY OF PEOPLE VISITED TO A SPECIFIC ZONE



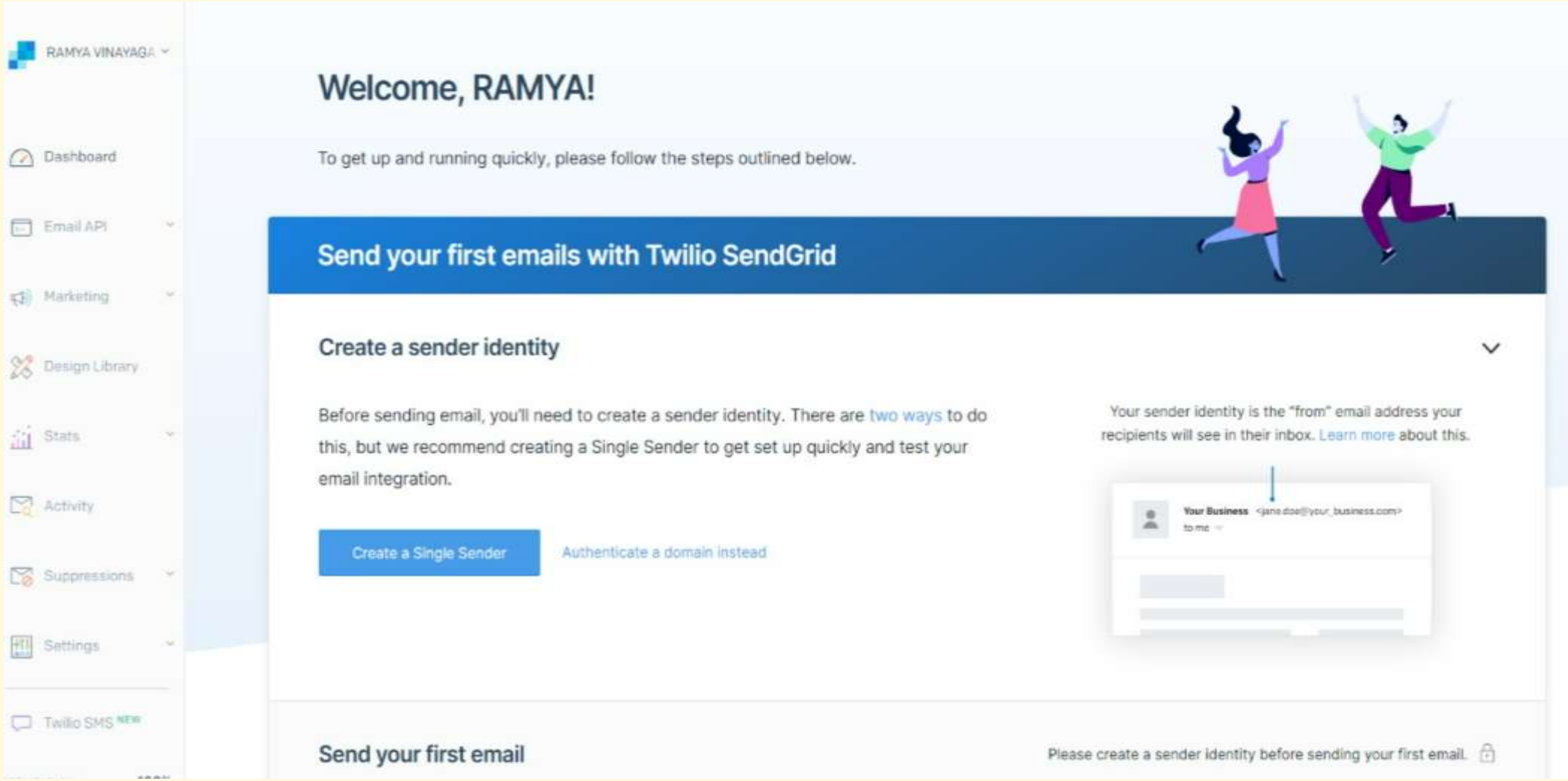
MOBILE UI
User app



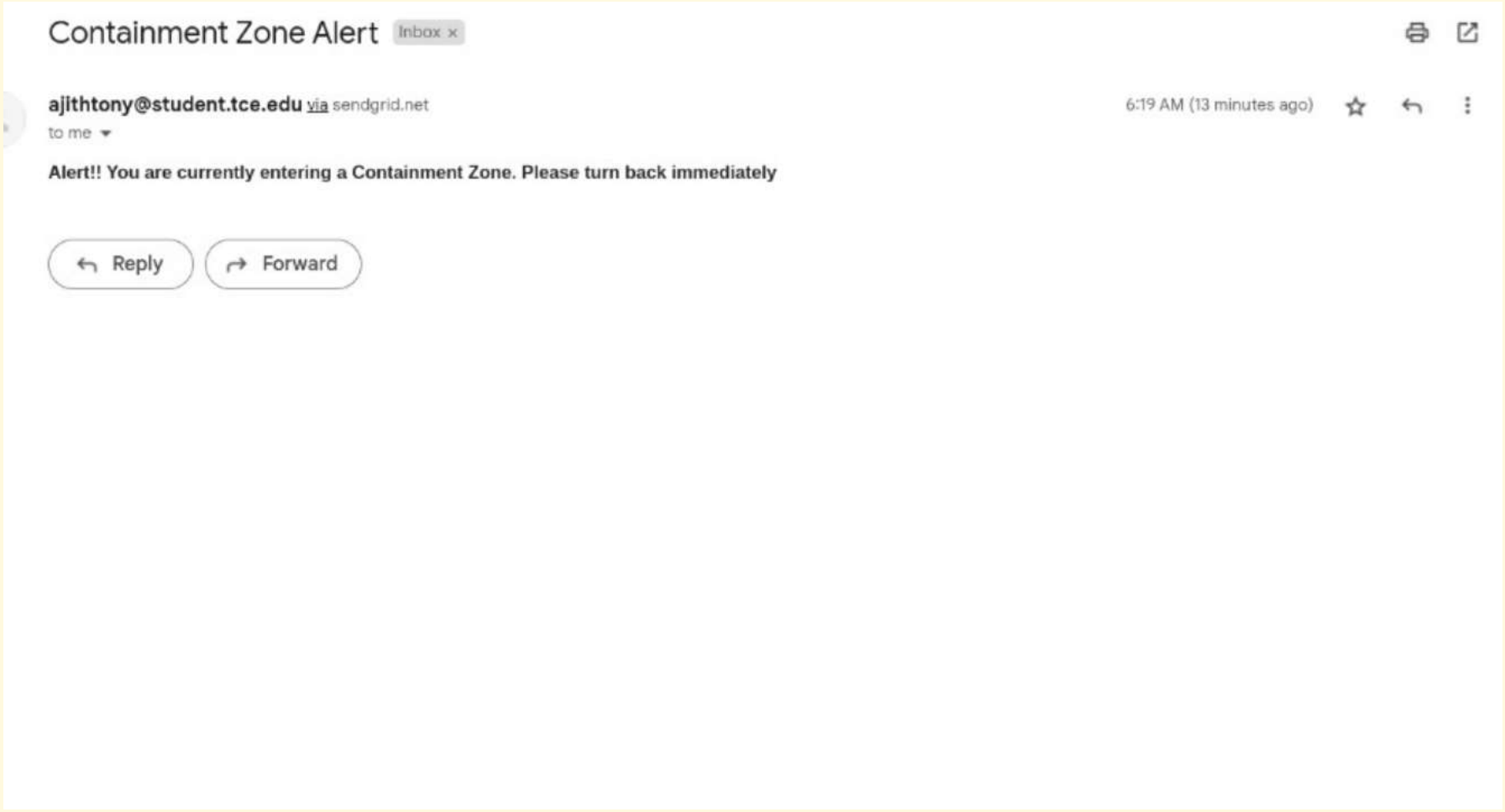




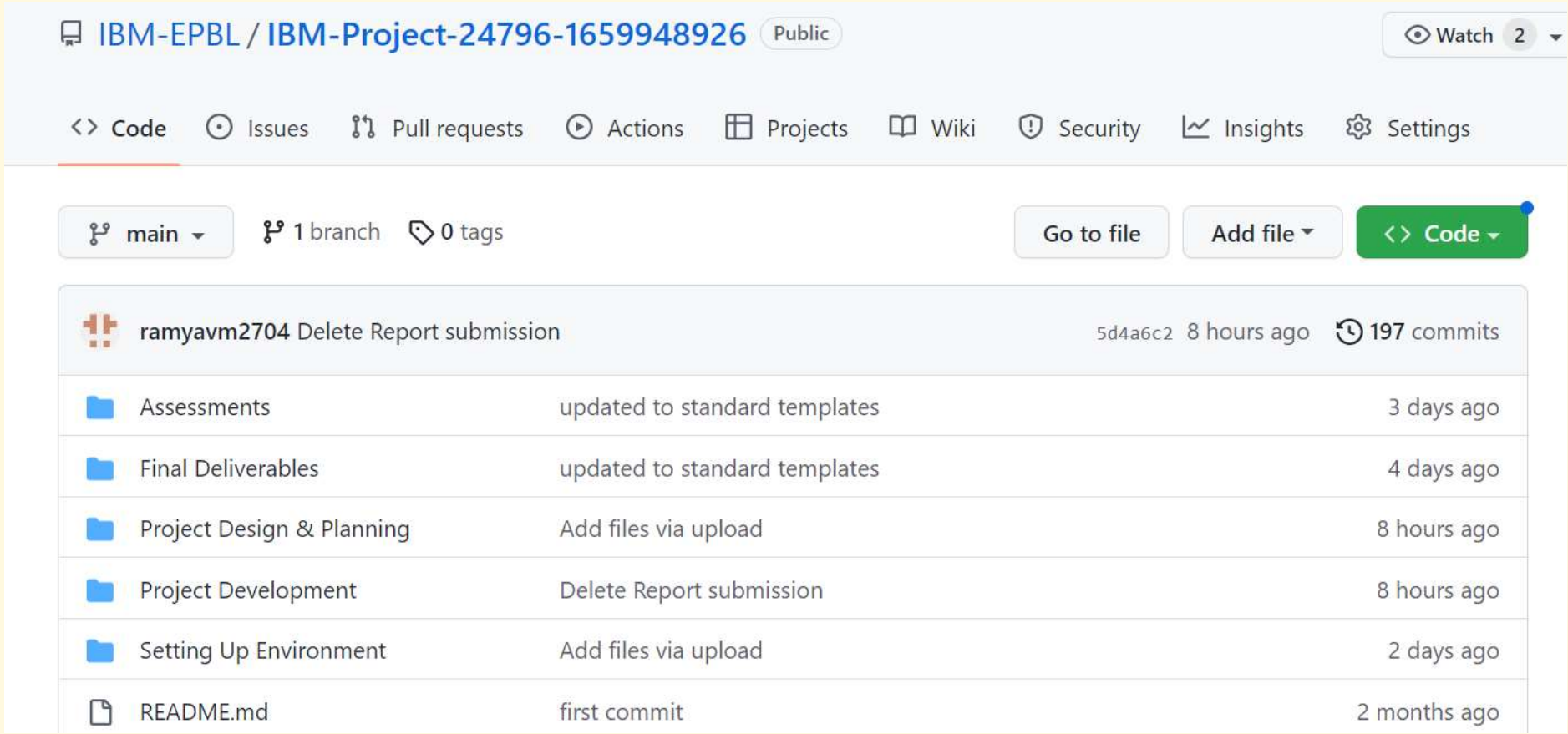
SENDGRID INTEGRATION



NOTIFICATION



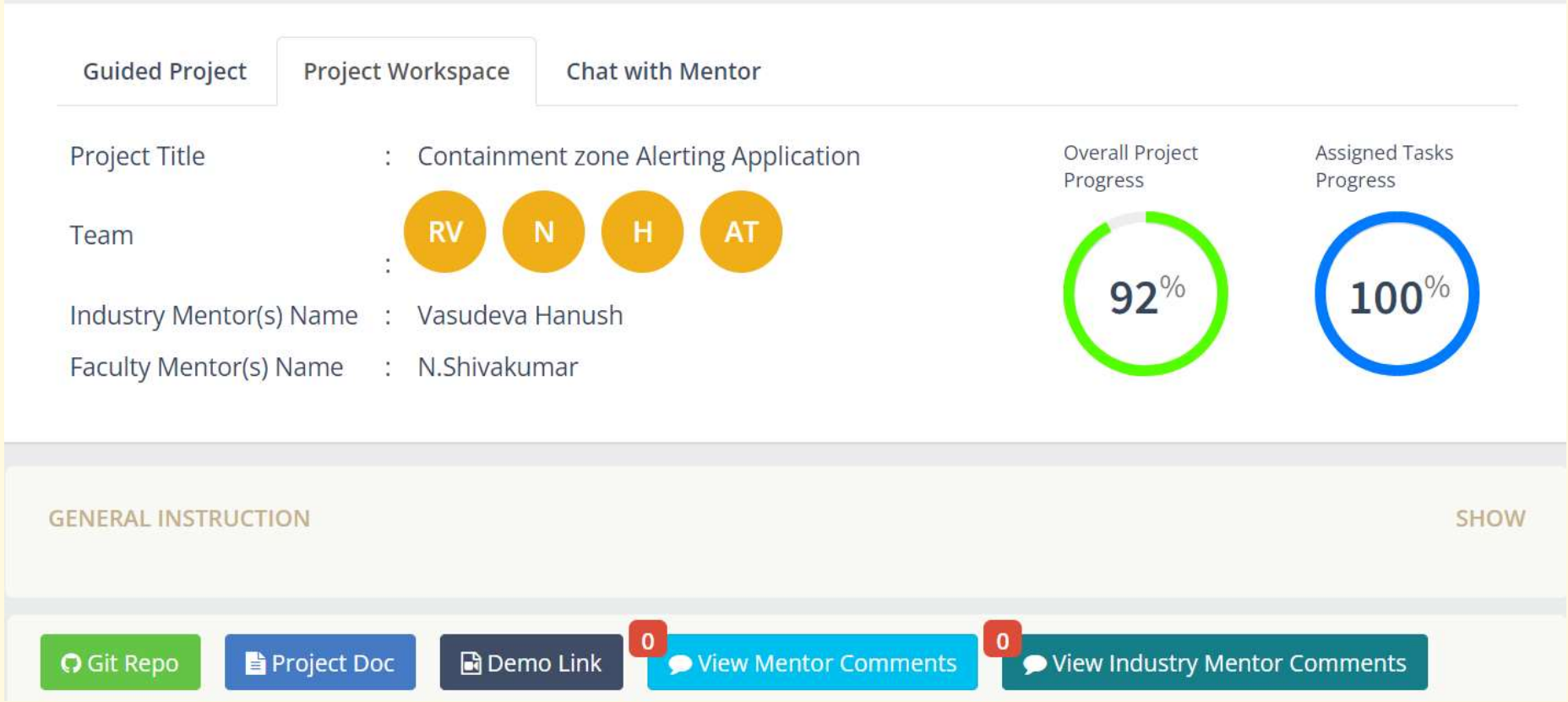
GitHub uploads:



GitHub LINK:

https://github.com/IBM-EPBL/IBM-Project-24796-1659948926

IBM STATUS


Guided Project
Project Workspace
Chat with Mentor
Project Title : Containment zone Alerting Application
Team : RV N H AT
Industry Mentor(s) Name : Vasudeva Hanush
Faculty Mentor(s) Name : N.Shivakumar
Overall Project Progress
92%
Assigned Tasks Progress
100%
GENERAL INSTRUCTION
SHOW
Git Repo
Project Doc
Demo Link
0
View Mentor Comments
0
View Industry Mentor Comments

RESULT

- We have created a mobile application that will notify the people registered with the app when they enter a containment zone with a red alert
- This will help people to safeguard themselves and help to get details about a particular zone.
- As of now, the app is used for COVID-19 disease, but in further days this can be used for any kind of pandemic or can be proceeded for seasonal diseases also.