

## **Ideation Phase**

### **Brainstorm & Idea Prioritization Template**

Date	19 September 2022
Team ID	PNT2022TMID26804
Project Name	Containment Zone Alerting Application
Maximum Marks	4 Marks

### **Containment Zone Alert Application – Brainstorming & Idea Prioritization**

#### **Step-1:**

Team Gathering, Collaboration and Selecting the Problem Statement

#### **Step-2:**

Brainstorming, Idea Listing and Grouping

#### **Step-3:**

Idea Prioritization

#### **IDEA:**

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.

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.

# Team Gathering, Collaboration and Selecting the Problem Statement

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## Containment Zone Alert Application

An application that 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.

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### PROBLEM

**How might we alert  
people of Covid  
Containment Zones?**

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## 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.

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## Features

### 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.

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## Brainstorming, Idea Listing and Grouping

### GOAL

Containment Zone Tracking  
Application Development

### CONSTRAINTS

Maintain necessary data's  
access necessary usage of  
location

### COMMENTS

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

### TEAM IDEA WORKSPACE

Sukhit Kumar

For the precise use of location and get prior alert messages

We need to access the location while to see the alerted zones

We might face lot of challenges

Roushan Raj

How can we push the notification to the user

If we want to push the notification we need to provide the alerted zones

Can we send the alert messages through App notification

Rishikesh Kumar

We can send grid type of alert messages

If the person encountered into the marked zones the alert messages are sent via mail

We must develop both web & mobile application for the various kinds of users

Vikash Kumar Ray

User can share their status as public whether they are affected or not

User must keep updated of their app for better reliable of data

For the affected person profile, user can contact the Emergency services

### FAVOURITE IDEAS

Make profile as public to alert nearby user whether they are affected or not?

User can contact the war room service for their Emergency purposes

There is a way to share your location to your saved contacts

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## Grouping of ideas

Each group is a collection of similar ideas from the brainstorm that has a title which describes what the ideas have in common.

### Features

- Easy Identification of containment zones
- Map Integration using Google API's
- No complicated process involved

### Pros

- No privacy related issues
- Customizable Alerts can be a plus!
- Cloud data enables syncing
- Assist to stop spreading of dreadful pandemic
- Security in Location sharing
- Offline data storage

### Issues

- What if location service fails?
- What if phone runs out of battery?
- What if it doesn't support all devices?

### Extra features that can be added

- Getting user feedback
- Have a news feed with current COVID statistics
- Hashing of passwords
- App promotions
- Include a Referral Program

### Concerns

- Overcome Latency Factors
- Allow user to store search data
- No privacy related issues
- Simple and clear UI
- Frequent Updates & Bug Fixes

### Uses

- Helpful in finding nearby containment zones
- Instant alert delivery
- Allow user to store search data
- Allow user to search containment zones
- Visualize statistics

# Idea Prioritization

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## Priorities

An importance - feasibility graph about what's important moving forward.

