

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID39082
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

1

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.

PROBLEM

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

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

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.

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 profit 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

3

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

4

Priorities

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

