

# **CONTAINMENT ZONE ALERTING APPLICATION**

## **PROJECT DESIGN PHASE 2**

### **SOLUTION REQUIREMENTS**

#### **(FUNCTIONAL AND NON-FUNCTIONAL)**

**Team ID : PNT2022TMID35197**

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#### **Problem Statement:**

Create an application to indicate Containment Zone Alert.

#### **Problem Statement Description:**

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 Requirements:**

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.

### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Mobile number Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	App Permissions	Enabling location Access (Mandatory) Permission to Media Access Permission to Camera
FR-4	Connectivity	The user and server were connected through the internet.
FR-5	Data fetching	The Users Personal data and a result of self-analysis updated with app server.
FR-6	Support functions	The Users gets teleconsultation using helpline and supports by chatbot.
FR-7	End user benefits	To protect the people from the disease spread by knowing containment zones using contact tracing.

### Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It is an effective way to find a containment zone. It can easily access by everyone.
NFR-2	Security	It is secured because confirmation through User own Email or OTP and also the data were stored in encrypted format to main anonymity.
NFR-3	Reliability	It is a high reliability based on development and deployment.
NFR-4	Performance	High efficiency outcomes with respect to simple user Interface.
NFR-5	Availability	Anyone from anywhere can access it through internet.
NFR-6	Scalability	It has ability to handle a growing user base without affecting the user experience and app performance.