

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID42572
Project Name	Containment zone Alerting Application
Maximum Marks	4 Marks

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 Gmail
FR-2	User Login	Login through Gmail & password
FR-3	Admin login	Login through Gmail & password
FR-4	Admin dashboard	Tracking and managing all the zones

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Provides information about the containment of a particular region by continuously monitoring an individual's location.
NFR-2	Security	Tracking the users who are all visiting the containment zones. The Identified containment zones chosen for the testing of the application were users visited one by one
NFR-3	Reliability	Our 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. The monitoring process will be based on the containment zones which is added by the Admin.
NFR-4	Performance	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.
NFR-5	Availability	Our project aims at building an application that provides information about the containment zones of a particular region by continuously monitoring an individual location. The officials can monitor the user's activity from their Admin panel. Location data of individuals will be stored in the database (IBM DB2). Alerts will be send to the user using the Notification service and also through the Email service.
NFR-6	Scalability	<p>Containment zones will be identified throughout the country and decided into red, orange & green zones.</p> <ul style="list-style-type: none"> • Red Zone – Infection Hotspots • Orange Zone – Some Infection Zone • Green Zone – No Infection Zone <p>App captures the user's IMEI. The police can keep an eye on the people who are frequently violating the lockdown rules.</p>