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

Date	03 October 2022
Team ID	PNT2022TMID05098
Project Name	Containment Zone Alerting Application
Maximum Marks	4 Marks

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 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.