

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

Date	09 November 2022
Team ID	PNT2022TMID51548
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 Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login through User name and password. Login through mail I'D and password. Login through OTP through mail I'd and password. Login through Phone number.
FR-4	Records of the containment zones	Zones name Containment infections category in levels. Infected people count. Zone details
FR-5	Login details	Login Details along with time through E-mail. Login Details along with time through phone number.
FR-6	Updation of zones Details.	Update through E-mail Update through User account.
FR-7	Monitoring of zones	Monitoring of zones through collecting data from trust worthy resources.
FR-8	Database	Usage of standard database for storing the data.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ol style="list-style-type: none">1. Once users successfully log in to the application they can update their zone details, also users will be able to add details about the containment zones submitting essential details related to the zones. They can view details of the current location. The System will automatically send an alert message to the users if they enter the containment zone. So that they can protect themselves from infection.2. It can use by wide variety of users as it is very simple to learn and not complex to proceed .3. Easy to use, User-friendly and Responsive.
NFR-2	Security	Data from the user will be secured properly.
NFR-3	Reliability	User can trust this application and travel safely.
NFR-4	Performance	Most appropriate results can be achieved due to using the Geofencing and GPS.
NFR-5	Availability	The application uses the network to load the google Maps to retrieve containment zone. It is available for good range of network bandwidth.
NFR-6	Scalability	This application can be accessed from anyplace and information about the zones is up to date.