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

Date	03 October 2022
Team ID	PNT2022TMID37165
Project Name	Project – Containment Zone Allotment System
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 own application Form Registration through Gmail Registration through LinkedIN Registration through Google Docs.
FR-2	**User Confirmation**	Confirmation via Email Confirmation via OTP /via Mobile number.
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**	• 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. • It can use by wide variety of users as it is very simple to learn and not complex to proceed . • Easy to use, User-friendly and Responsive.
NFR-2	**Security**	• Applications have been developed to help every common man. The System will ask users to create their accounts by providing essential details. Users can access their own accounts by logging into the application. With Registered Mail id only users can log into the application. So it provide authentication. • We are using login for the user and the information will be hashed so that it will be very secure to use.
NFR-3	**Reliability**	☐ It will be reliable that it can update with very time period so that the accuracy will be good.
NFR-4	**Performance**	• User can track the record of the containment zone locations available using the application. Containment zone tracking helps to improve containment zone allotment system and ensures that the data about the zones are accurate. Reduces manual searching and saves time. Acknowledgements will be sent automatically while zones are nearby the users. Makes the searching process more efficient and simple. Improves application's performance. • It will be perform fast and secure even at the lower bandwidth .
NFR-5	**Availability**	☐ The availability of information about the particular data of containment zone and about the users current zone will be much accurate and available for any place and locations specified by the user.

NFR-6	Scalability	- Scalability is an aspect or rather a functional quality of a system, software or solution. This proposed system for containment zone system can accommodate expansion without restricting the existing workflow and ensure an increase in the output or efficiency of the process. - It is scalable that we are going to use data in kilobytes so that the quite amount of storage is satisfied .