

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	20-octotber-2022
Team ID	PNT2022TMID51090
Project Name	Containment Zone Alerting Application

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	User has to register either by E-mail id or phone number.
FR-2	User Confirmation	Confirmation done through mail or OTP by sending verification code.
FR-3	Track the location	Trace the trespassers by using Google map API.
FR-4	Affected areas are shown	Containment zones were marked and trespassers are indicated by geofencing.
FR-5	Alert notification	By tracking their location using GPS system, notification or message will be send if the user enters the containment zone.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User interface is very effective to use when compared with other.
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 zones. It is available for good range of network bandwidth.
NFR-6	Scalability	This application can be accessed from anyplace and information about the zones are up to date.