

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

Date	03 October 2022
Team ID	PNT2022TMID38329
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	User can register through Email id or current phone number.
FR-2	User Confirmation	Confirmation can be done by verification code through mail or OTP.
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	<b>Usability</b>	User interface is very effective to use when compared with other.
NFR-2	<b>Security</b>	Data from the user will be secured properly.
NFR-3	<b>Reliability</b>	User can trust this application and travel safely.
NFR-4	<b>Performance</b>	Most appropriate results can be achieved due to using the Geofencing and GPS.
NFR-5	<b>Availability</b>	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	<b>Scalability</b>	This application can be accessed from anyplace and information about the zones are up to date.