

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

Date	22 October 2022
Team ID	PNT2022TMID39536
Project Name	Containment Zone Alerting Application
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Users can sign up using their email address or existing phone number.
FR-2	User Confirmation	Confirmation can be completed by sending a verification code via email or using an OTP.
FR-3	Track the location	Utilizing the Google map API, track the intruders and update the areas marked as containment zones on the Google map.
FR-4	Affected areas are shown	Geo fence serves as a warning for trespassers, and containment zones were labeled using zone colours.
FR-5	Alert notification	If the user enters the containment zone, a notification or message will be sent by tracking their location using GPS.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The COVID-19 investigative process is more effective and thorough because to the user interface, which is particularly easy to use when compared to other interfaces.
NFR-2	Security	The user's data will be secured.
NFR-3	Reliability	The user may travel securely and rely on the information provided by the programme..
NFR-4	Performance	The Geofencing and GPS technologies can be used to produce the most suitable results.
NFR-5	Scalability	It is possible to access this application from anywhere, and the zone information is accurate.