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

Date	04 November 2022
Team ID	PNT2022TMID14431
Project Name	Containment Zone 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 Mobile Number Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Permission	The user needs to provide location access,in order to trace his/her location.
FR-4	Containment zones are shown	Containment zones are marked and trespassers were indicated by geofencing.
FR-5	Tracking the location	Trace the trespassers by using Google map API
FR-6	Alert message via notification	By tracking their location,a message will be send if they enter 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**	People who travel can use this application to track the containment zone and pass through a safe route.
NFR-2	**Security**	Using blockchain technology for location and data encryption to protect user's data from getting into wrong hands.
NFR-3	**Reliability**	Fake news will be avoided and proper guidance is given in the application. The user can trust the result and navigate safely.
NFR-4	**Performance**	The geofencing is updated daily and shows the day- to-day updates of containment zones.
NFR-5	**Availability**	The application uses the network to load the google maps to retrieve containment zones.It is available for a good range of network bandwidth.
NFR-6	**Scalability**	This application can be accessed from anyplace and monitoring users movements in pandemic zones and alerts before they are affected.