

## Project Design Phase - II

### Solution Requirements

<b>Team ID</b>	PNT2022TMID35281
<b>Project</b>	Containment Zone Alerting Application

#### Functional Requirements

<b>Requirement ID</b>	<b>Requirement Statement</b>	<b>Sub Requirement</b>
FR001	User Registration and Login	Users can register using their email or phone number
FR002	App permissions	Enabling location access
FR003	User Location Tracking	Track user location using Google map API and update their location
FR004	Admin App for Updating Containment Zones	Admin can update the containment zone information
FR005	Containment Zones Display	Containment zones are marked using zone colours
FR006	Alert Notification	An alert notification will be sent to the user if they enter a containment zone

#### Non-functional Requirements

<b>Requirement ID</b>	<b>Requirement Statement</b>	<b>Sub Requirement</b>
NFR001	Usability	User interface must be intuitive and effectively convey information about containment zones
NFR002	Reliability	Users can trust the containment zone information and expect it to be accurate
NFR003	Performance	The app is highly responsive and functions as intended
NFR004	Availability	Anyone from anywhere can access it through the internet
NFR005	Scalability	The application can handle rapid growth of the user base and track increasing number of containment zones without affecting app performance