

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID35589 |
| Project Name | Project – 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 | Registration in the form using Phone number or Email |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Containment Zones | Access Google Maps via API and using Geo-fence Sketching |
| FR-4 | Notification Alert System | Continuous GPS tracking and access to notification service |
| FR-5 | Alternate Routes | Using Google maps service |

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 others. |
| NFR-2 | Security | The data collected from the user will be stored securely in the cloud. |
| NFR-3 | Reliability | The user can trust the results from the app and navigate safely |
| NFR-4 | Performance | Accurate results can be achieved due to real-time location sharing and Geofencing. |
| NFR-5 | Availability | Available if the network bandwidth of the user is of good range. |
| NFR-6 | Scalability | This application can be accessed from anyplace and information about the zones are up to date |