

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

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|---------------|---------------------------------------|
| Date | 14 October 2022 |
| Team ID | PNT2022TMID32760 |
| 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 | Usability | User interface is very effective to use when compared with other. |
| NFR-2 | Security | Data from the user will be secured properly. |
| NFR-3 | Reliability | User can trust this application and travel safely. |
| NFR-4 | Performance | Most appropriate results can be achieved due to using the Geofencing and GPS. |
| NFR-5 | Availability | 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 | Scalability | This application can be accessed from anyplace and information about the zones are up to date. |