**Project Design Phase-II FunctionalRequirements**

|  |  |
| --- | --- |
| Team ID | PNT2022TMID11590 |
| Project Name | Containment Zone Alerting Application |
| Maximum Marks | 4 Marks |

**FunctionalRequirements:**

|  |  |  |
| --- | --- | --- |
| **FR No.** | **FunctionalRequirement (Epic)** | **Sub Requirement (Story /Sub-Task)** |
| FR-1 | User Registration | User can register through Email id or current phone Number. |
| FR-2 | User Confirmation | Confirmationcanbe done by verification code through Mail or OTP. |
| FR-3 | Track the location | Trace the trespassers by using Google map API. |
| FR-4 | Alert notification | By tracking their location using GPS system, notification or message will be send if the user enters the Containment zone. |
| FR-5 | Affected areas are shown | Containment zones were marked andtrespassers are Indicated by geofencing. |

**Non-functionalRequirements:**

Following are the non-functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-FunctionalRequirement** | **Description** |
| NFR-1 | **Performance** | Most appropriate results can be achieved due to using the Geofencing and GPS. |
| NFR-2 | **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-3 | **Reliability** | Usercan trust this application and travel safely. |
| NFR-4 | **Usability** | User interface is very effective to use when compared with other. |
| NFR-5 | **Scalability** | This application canbe accessed from anyplace and Information about the zones are up to date. |
| NFR-6 | **Security** | Data from the user will be secured properly. |