

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

|               |   |
|---------------|---|
| Date          | 18 November 2022  |
| Team ID       | PNT2022TMID38996  |
| Project Name  | IOT-Based Safety Gadget for Child<br>Safety Monitoring and Notification |
| 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 Form<br>Registration through Gmail<br>Registration through LinkedIn  |
| FR-2   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP  |
| FR-3   | Authentication                | Only the authorized person for that product will know<br>Ensures security   |
| FR-4   | User Interface                | The Inventor Able to see the location of children when they are out of geo fence will also track the exact information about the children |
| FR-5   | Notification                  | Notified through mobile and mail  |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description   |
|--------|----------------------------|---|
| NFR-1  | <b>Usability</b>           | Accessed through Mobile App Showing location (latitude and longitude) of child and also other measures to ensure safety like notification. Portable and comfortable to use.   |
| NFR-2  | <b>Security</b>            | Database security and ensuring the safety of the product while in use.  |
| NFR-3  | <b>Reliability</b>         | Once logged in, the webpage is available until logging out of the app, and a comfortable platform or creates a good environment for users to use.                             |
| NFR-4  | <b>Performance</b>         | Each page must load within 4 seconds and database needs to be updated every few seconds and a notification must be sent immediately if seen a change in the child's location. |
| NFR-5  | <b>Availability</b>        | The data must be available whenever needed and the product should be able to use at any time.   |
| NFR-6  | <b>Scalability</b>         | The process must be flexible to use at anytime and versatile.   |