

## Functional & Non-functional Requirements

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|---------------|--|
| Date          | 27-10-2022   |
| Team ID       | PNT2022TMID04739   |
| Project Name  | Project – IOT-Based Safety Gadget for Child Safety Monitoring and Notification |
| Maximum Marks | 4 Marks  |

### **Functional Requirements:**

Following are the functional requirements of the proposed solution.

| SI No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task)   |
|--------|-------------------------------|--|
| 1.     | User Registration             | Registration through Form<br>Registration through Gmail<br>Registration through LinkedIn   |
| 2.     | User Confirmation             | Confirmation via Email<br>Confirmation via OTP   |
| 3.     | Authentication                | Only the authorized person for that product will know<br>Ensures security  |
| 4.     | User Interface                | The Inventor Able to see the location of children when they are out of geofence will also track the exact information about the children |
| 5.     | Notification                  | Notified through mobile and mail   |

### **Non-functional Requirements:**

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

| SI No. | Non-Functional Requirement | Description   |
|--------|----------------------------|---|
| 1.     | Usability                  | 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.   |
| 2.     | Security                   | Database security and ensuring the safety of the product while in use.  |
| 3.     | Reliability                | 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.                             |
| 4.     | Performance                | 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. |

|    |              |   |
|----|--------------|---|
| 5. | Availability | The data must be available whenever needed and the product should be able to use at any time. |
| 6. | Scalability  | The process must be flexible to use at anytime and versatile.                                 |