**FUNCTIONAL & NON-FUNCTIONAL REQUIREMENTS**

|  |  |
| --- | --- |
| **Date** | **29-10-2022** |
| **Team ID** | **PNT2022TMID18177** |
| **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  Registration through Gmail  Registration through LinkedIn |
| 2. | User Confirmation | Confirmation via Email Confirmation via OTP |
| 3. | Authentication | Only the authorized person for that product will know 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. |