Project Design Phase-II

Solution Requirements (Functional & Non-functional)

|  |  |
| --- | --- |
| Date | 13 october 2022 |
| Team ID | PNT2022TMID41960 |
| 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.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form Registration through Gmail  Registration through LinkedIn |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Authentication | Only the authorized person for that product will know 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 | **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. |
| NFR-2 | **Security** | Database security and ensuring the safety of the product while in use. |
| NFR-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. |
| NFR-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. |
| NFR-5 | **Availability** | The data must be available whenever needed and the product should be able to use at any time. |
| NFR-6 | **Scalability** | The process must be flexible to use at anytime and versatile. |