

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

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| TEAM ID | PNT2022TMID34547 |
| Project Name | IoT Based Safety Gadget for Child Safety Monitoring and Notification |

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 geofence 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. |