

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

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| Date | 03 October 2022 |
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| 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 |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Notification | Notified via Mobile App |
| FR-4 | User Interface | Mobile App- MIT App Inventor Able to see location of children when they are out of geofence |

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 |
| NFR-2 | Security | Database security must meet HIPAA requirements |
| NFR-3 | Reliability and Availability | Once logged in ,webpage is available until logging out of the app |
| NFR-4 | Performance | Each page must load within 2 seconds |
| NFR-6 | Scalability | The process must finish within 3 hours so data is available by 8 a.m. local time after an overnight update |