

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

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| Date | 11 October 2022 |
| Team ID | PNT2022TMID11105 |
| Project Name | IOT BASED DEVICE 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 Requirements | A smart device will be given to the parents/guardian in order to ensure the safety of the children. |
| FR-2 | User Registration | Manual Registration Through a Website or Gmail |
| FR-3 | User Confirmation | Phone Confirmation Email confirmation OTP authentication |
| FR-4 | Payments options | No payment required |
| FR-5 | Product Delivery and installation | The installation fee will be determined with respect to the circumstances of the children and the parent. |
| FR-6 | Product Feedback | Through a website via Gmail |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | Have clear product instructions and a self-explanatory product that is simple to use. |
| NFR-2 | Security | Cloud data must be contained within the network, collapsing to be avoided, Real-time avoidance should be avoided, and the device will be constantly monitored. |
| NFR-3 | Reliability | Hardware is frequently tested. |
| NFR-4 | Performance | The smart device will provide a better user experience and deliver accuracy output. |
| NFR-5 | Availability | All of the functions that the user demands will be provided, depending on the needs of the consumer. |
| NFR-6 | Scalability | The product is based on child safety so it must ensures all types of child safety parameters are true. |