**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| Date | 17 October 2022 |
| Team ID | PNT2022TMID19539 |
| 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 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 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 obtained 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. |