**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Team ID | PNT2022TMID22515 |
| 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 IP address |
| FR-2 | User Confirmation | Confirmation via OTP |
| FR-3 | Notification | Notified via Mobile Web app –MIT app inventor |
| FR-4 | Database | Create and maintain a database containing user(child’s) locations |
| FR-6 | User interface | Mobile app inventor-MIT app inventor  Able to see location of children when they are out of range |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The device and its applications are user-friendly. The device is portable and easy to use. |
| NFR-2 | **Security** | Providing permission for some information can only be decided by the user |
| NFR-3 | **Reliability** | Webpage gets automatically logout unless signal is not distorted |
| NFR-4 | **Performance** | Each page must load with minimum time |
| NFR-5 | **Availability** | Can last as long as backup power supply is available |
| NFR-6 | **Scalability** | Short term scalability where memory is stored and erased can be scaled to keep records in the future |