**Project Design Phase-II**

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

| Date | 03 October 2022 |
| --- | --- |
| Team ID | PNT2022TMID19343 |
| Project Name | IoT Based Safety Gadget for Child Safety Monitoring & 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 Gmail |
| FR-2 | User Confirmation | Confirmation via Email |
| FR-3 | User Authentication | User Verification through valid user Id and password |
| FR-4 | User Access | Real Time monitoring of child’s location through web portal for authorized users, |
| FR-5 | User Alert | User receives alert notifiation of child and will be able to track the location |
| FR-6 | Review and feedback | Receive feedback from user |

**Non-functional Requirements:**

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

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | Easier installation process, and remote monitoring services |
| NFR-2 | **Security** | Data encryption and cloud security |
| NFR-3 | **Reliability** | Only authorized users have the access  Assured data security |
| NFR-4 | **Performance** | High accuracy of location  Faster response of alert notification |
| NFR-5 | **Availability** | The user can access the system 24/7  Real time monitoring system |
| NFR-6 | **Scalability** | The system is scalable even in the case of poor geolocation |