# Project Design Phase-II

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

|  |  |
| --- | --- |
| Date | 12 October 2022 |
| Team ID | PNT2022TMID31875 |
| Project Name | IoT based safety gadget for child safety and  notification system |
| 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 account  Registration through Gmail |
| FR - 2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR - 3 | User Notification | Notification to registered mobile number  Notification via message |
| FR - 4 | User location check | Check through account |

## Non-functional Requirements:

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR – 1 | **Usability** | Allows parents to keep a track of their child's location and also, help them  raise an alarm in case of an emergency. |
| NFR – 2 | **Security** | Creates a secure environment for  children to move around. |
| NFR – 3 | **Reliability** | Increased reliability towards technology and reduced reliability  towards guardians. |
| NFR – 4 | **Performance** | High performance in terms of simple  usage and security. |
| NFR – 5 | **Availability** | Any time usage backed up by power  supply. |
| NFR - 6 | **Scalability** | High level with increase in  performance. |