

## Project Design Phase-II

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

|                                       |  |
|---------------------------------------|--|
| <b>Team ID</b>                        | PNT2022TMID23841   |
| <b>Project Name</b>                   | <b>IoT based Safety Gadget for Child Safety, monitoring and notification</b> |
| <b>TEAM LEADER &amp; TEAM MEMBERS</b> | 1. DHARANI N<br>2. ADITHYA V<br>3. DEEPIKA B<br>4. GOPIKA M                  |

### Functional Requirements:

| FR No. | Functional Requirement (Epic)          | Sub Requirement (Story / Sub-Task)  |
|--------|--|---|
| FR-1   | User Registration                      | Registration through Form<br>Registration through Gmail<br>Registration through LinkedIn                        |
| FR-2   | User Confirmation                      | Confirmation via Email<br>Confirmation via OTP  |
| FR-3   | user login                             | login through User Id<br>login through Password   |
| FR-4   | network connectivity                   | connect via wifi<br>connect via mobile data<br>Internet connection with atleast 2Mbps                           |
| FR-5   | cloud database                         | Access cloud storage via internet   |
| FR-6   | Global system for mobile communication | connects to the network via the subscriber identity module (SIM), It provides the network connectivity with GSM |

## Non-functional Requirements:

| FR No. | Non-Functional Requirement | Description   |
|--------|----------------------------|---|
| NFR-1  | <b>Usability</b>           | it can track and monitor the location of the child                                      |
| NFR-2  | <b>Security</b>            | The cloud database is highly secured to prevent data from hacking                       |
| NFR-3  | <b>Reliability</b>         | Assure the safety of the children.  |
| NFR-4  | <b>Performance</b>         | Easily Monitoring the children with safety and health                                   |
| NFR-5  | <b>Availability</b>        | To check the temperature, Pulse rate, Heart beat etc...                                 |
| NFR-6  | <b>Scalability</b>         | recognition of the child that makes up a solution and ensure communication between them |