

# SOLUTION REQUIREMENTS

## **TOPIC: 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 Form<br>Registration through Gmail  |
| FR-2   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP   |
| FR-3   | Notification                  | Notified via Mobile App  |
| FR-4   | User Interface                | Mobile App- MIT App Inventor<br>Able to see location of children when they are out of geofence |

### **Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement          | Description  |
|--------|-------------------------------------|--|
| NFR-1  | <b>Usability</b>                    | Accessed through Mobile App<br>Showing location (latitude and longitude) of child                          |
| NFR-2  | <b>Security</b>                     | Database security must meet HIPAA requirements   |
| NFR-3  | <b>Reliability and Availability</b> | Once logged in ,webpage is available until logging out of the app  |
| NFR-4  | <b>Performance</b>                  | Each page must load within 2 seconds   |
| NFR-6  | <b>Scalability</b>                  | The process must finish within 3 hours so data is available by 8 a.m. local time after an overnight update |