**Project Design Phase-II**

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

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| Date | 23 October 2022 |
| Team ID | PNT2022TMID16953 |
| 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.

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Notification | Notified via Mobile Web app |
| FR-4 | User Interface | Mobile Web App user can create the geofence |
| FR-5 | User Interface | Mobile Web App user 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.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Accessed through Mobile Web app  Showing location of the child |
| NFR-2 | **Security** | Database security must meet HIPAA requirements |
| NFR-3 | **Reliability** | Once logged in, webpage is available until logging out of app |
| NFR-4 | **Performance** | Each page must load with minimum time |
| NFR-5 | **Availability** | Must be active throughout the day and remain active at least a week for a single charge. |
| NFR-6 | **Scalability** | The process must finish within 3 hours so data is available in the morning after an overnight update |