SOLUTION REQUIREMENTS

# (Functional & Non-functional)

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| Date | 21 October 2022 |
| Team ID | PNT2022TMID51175 |
| 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 Email Registration through Mobile  numberRegistration in person |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Notifications | Email and SMS message |
| FR-4 | User Interface | Mobile app for parents  Web interface for registrations, record tracking, information and payment |

# 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 | To find out whether the child crosses the geofence or not, upon which the parent/guardian  of the childgets an alert. |
| NFR-2 | Security | Database security must meet HIPAA requirements. Extra security protocols and measures are also in  place. |
| NFR-3 | Reliability | Webpage gets automatically logged out unless password has been saved in the Google account. In case of server crash data gets backed up  beforehand. |
| NFR-4 | Performance | Site gets updated every 1 hour. Speed per transaction depends on the internet strength. |
| NFR-5 | Availability | Available worldwide, and requires an internet  source. |
| NFR-6 | Scalability | Short term scalability where memory is stored and erased, can be scaled to keep records in the future. |