**Project Design Phase-II**

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

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| Date | 28 oct 2022 |
| Team ID | PNT2022TMID06109 |
| Project Name | IOT based safety gadget for child safety monitoring and 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 | Location tracking | Track the child location using GPS. |
| FR-2 | Notification | 1.Send the notification to parents.  2.Notification via email or SMS. |
| FR-3 | Precaution steps | When child leaves the created geofence location the parents will be notified by alert message. |
| FR-4 | Sending alert message | Sending the messages through Email or SMS. |
| FR-5 | Safety of children | Track the child location within time,the child will be rescued by their parents after receiving the alert message |
| FR-6 | Easy to implement | IOT application with GPS tracker |

**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** | Easily find the missing Child location . |
| NFR-2 | **Security** | Information confidentiality. |
| NFR-3 | **Reliability** | Safety of missing child |
| NFR-4 | **Performance** | Track the child location using GPS ,send notification to parents and automatically takes precaution steps |
| NFR-5 | **Availability** | We can track the child activities from anywhere. |
| NFR-6 | **Scalability** | It can be used at anyplace and anytime. |