Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 1 NOVEMBER 2022 |
| Team ID | PNT2022TMID47484 |
| 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 | User visibility | Emergency alerts via Fast SMS and through internet |
| FR- 2 | User reception | Notifications will be sent to their parents if their child crosses the geofence and also the location of a child is stored in the database |
| FR- 3 | User Understanding | Based on the values collected by the device, The user will understand that if they receive any SMS, then their child is in danger. |
| FR- 4 | User action | If anything happens to the child, parent needs to take appropriate measures to help and make their feel children safe as soon as the alert received. |

# 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** | It be required to preclude children before being harmed, an autonomous real-time monitoring system is necessary for every child away from their parents. |
| NFR- 2 | **Security** | It be supposed to be designed to wearable without any problems. It would be weared by the children all the time and it should give assurance that it works all the time. |
| NFR- 3 | **Reliability** | It should be actively being monitor the child and should send information to the parents all the time. It must recognize the danger caused to the child immediately. |
| NFR- 4 | **Performance** | Notification will be sent to the parents if the child crosses the geofence. |

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| NFR- 5 | **Availability** | It must be active for all day and remain active at least a week for a single charge. So, it would be useful for the parents |
| NFR- 6 | **Scalability** | This device ought to have the option to effortlessly change overhaul concurring to change and need in requirements. |