Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	13 October 2022
Team ID	PNT2022TMID17666
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.

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.

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.

| 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. |