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

Date	10 November 2022
Team ID	PNT2022TMID12669
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	Sub Requirement (Story / Sub-Task)
FR-1	(Epic) User Registration	 Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via EmailConfirmation via OTP
FR-3	App installation	♣ Installation through link♣ Installation through play store
FR-4	Location History	 Used to detect the location precisely Point -to-point location can be seen in the app
FR-5	GPS tracking	♣ In order to track the location, GPS module needs to be implemented.
FR-6	Battery Life	 Since the gadget works on the basis of battery life, the life of the battery should be long lasting. So the main aim is to provide additional battery(spare), which is used when they forgot to charge the battery

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Since it uses GSM, which helps to inform the current situation and danger accurately and immediately to parents.
NFR-2	Security	 Provides assurance to parents(specially working parents)about the security of their child Develop the parents to monitor and locate the location of the child
NFR-3	Reliability	♣ Easy to access and to use♣ Easy to handle♣ Portable
NFR-4	Performance	 Instance notification is sent to the child's parent immediately Location of the child is stored for the future use
NFR-5	Availability	♣ Amber alert GPS♣ Accessing of location
NFR-6	Scalability	 Gives more confident to the parents about child safety Easily approaching the child with the help of GSM