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

Date	10 October 2022
Team ID	PNT2022TMID46119
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 Registration	Registration through PhoneRegistration through Gmail	
FR-2	User Confirmation	Confirmation through EmailConfirmation through Mobile Alert	
FR-3	App installation	Installation through website APK'sInstallation through play store.	
FR-4	Detecting child	 Detecting location through SMS Detecting location through mobile app 	
FR-5	Set Geofence	> Setting by user to find child location	
FR-6	User End Result	Parents need not worry about their children.	
FR-7	User Objective	Easy to monitor the child anywhereHelps to identify the child.	

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	 The device has GSM can help to inform the parents about the current situation of the child, alert by message immediately to save the child. Seamless communication is possible between people, processes, and things.
NFR-2	Security	 Make children parents more assure about their kid's security, we have a feature in our device called Geo-Fence. Securing your IoT devices and network as you scale up production and deployment can be challenging one, we have a feature like storing all data in the database.
NFR-3	Reliability	 The reliability of an item is to perform a required function in a correct manner. It is easy to use and more flexible.
NFR-4	Performance	 Create a Child tracker which helps the parents with continuously monitoring the child's location. The website's load time should not be more than one second for users. The notification will be sent according to the child's location to their parents. The overall data collection is stored in the database.

NFR-5	Availability	The system is accessible to a user
		at a given point in time.
		It is the ability of the application to
		handle an increase in workload
NFR-6	NFR-6 Scalability	without performance,
	degradation.	
		Parents does not need worry
		about their children safety.