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

Date	14 October 2022
Team ID	PNT2022TMID33855
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 and User Confirmation	Registration through Gmail Registration through phone number
	Commation	Registration through phone numberConfirmation via Email
		Confirmation via OTP
FR-2	App installation and Detecting	Installation through link
FR-2	Child location	Installation through play store
	Cilia location	Detecting location via app
		Detecting location via app Detecting location via SMS
		Detecting location via sivis
FR-3	Database	Stored in cloud for seamless connectivity.
		 Parents and kids link with the distance and the
		location values obtained from the mobile
		devices are stored here.
		 The values include parent id, kid id,
		distance, longitude, latitude etc.
FR-4	Server	 It connects the database and the front end
		application.
		 The backend server has been implemented
		to run as a service and is deployed in an IBM
		cloud instance.
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		to run as a service and is deployed in an IBM
		cloud instance.
FR-5	Battery Life	If the child or parent forgets to charge the
		device for a whole day then also the device will
		work. That's why we aim to make this device
		last the whole day with one charge.
ED C	Location History	It should be long-lasting. It should be long-lasting.
FR-6	Location History	 location history will help to track the child's activity so that the aren't will be
		· ·
		updated. Location history will be there for 30 days.
		 For example if the child gets missing with
		the help of location history the aren't can track
		down their child's activity and also can find
		their child.
		then timu.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Device have GSM can help to inform
	_	the parents or relatives about the current
		situations of the child by deliver the
		message immediately to save the child.
NFR-2	Security	Make children parents more assure about
		their kid's security, we have a feature in our
		device called Geo-Fence.
		 Whenever your child crosses that specific
		area, you will get an instant notification on
		your phone.
NFR-3	Reliability	Portable
		Easy to use
		Flexibility
NFR-4	Performance	Create a Child tracker which helps the
		parents with continuously monitoring the
		child's location.
		 The notification will be sent according to
		the
		 Child's location to their parents or
		caretakers.
		 The entire location data will be stored in
		the database.
NFR-5	Availability	Track your child even in a crowd
		 Get travel details of kids at any time
		Know the current location
NFR-6	Scalability	Gadget ensures the safety and tracking of
		the children.
		 Parents need not worry about their
		children.