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

Team ID	PNT2022TMID17111
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 Marks
Submission Date	11 November

Functional Requirements:

Following are the functional requirements of the proposed solution.

No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1	Database	Stored in cloud for seamless connectivity. Parents and kids link with the distance and thelocation values obtained from the mobile devices are stored here. The values include parent id, kid id, distance, longitude, latitude etc.
2	Server	It connects the database and the front endapplication. The backend server has been implemented to run as a service and is deployed in an IBM cloud instance. The backend server has been implemented to run as a service and is deployed in an IBM cloud instance.
3	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 Blast the whole day with one charge. It should be long-lasting.

4	Location History	Location history will help to track the child's activity so that they aren't will be updated. Location history will be there for 30days. For example if the child gets missing with the help of location history they aren't can track down their child's activity and also can find their
		child.

Non-functional Requirements:

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

No.	Non-Functional Requirement	Description
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.
2	Security	Make children parents more assure abouttheir kid's security, we have a feature in our device called Geo- Fence. Whenever your child crosses that specificarea, you will get an instant notification on your phone.
3	Reliability	Portable Easy to use Flexibility
4	Performance	Create a Child tracker which helps theparents with continuously monitoring the child's location. The notification will be sent according tothe Child's location to their parents orcaretakers. The entire location data will be stored inthe database.
5	Availability	Track your child even in a crowd Get travel details of kids at any time Know the current location

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