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

Date	29 October 2022
Team ID	PNT2022TMID01794
Project Name	Project – 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-3	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-1	Object identification	Detection of nearby devices and showing their names to select the desired device
FR-4	Location tracking	A gps sensor tracks the live location of the child. Sends information about the location to synced mobile phone.
FR-5	Detection	Vibration sensors detects accidents Sends report to the synced mobile phone.
FR-6	External control	Synced mobile phone can control the buzzer indication, distance range for operation etc.

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Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The use of the device demands operating it through mobile phones.
NFR-2	**Security**	For security concerns the device is locked with the parent's and the child's identification (like finger print). This devices prevents other persons from operating.
NFR-3	**Reliability**	Use of gps makes it more reliable for the user.
NFR-4	**Performance**	Extended battery life oh 24 hrs Can be well operated with solar powered battery.
NFR-5	**Availability**	It is advised to use the device specifically for a particular kid.
NFR-6	**Scalability**	The light weight, wearable and invisible band is a user friendly gadget. Can be controlled by synced mobile phone.