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

Date	03 October 2022
Team ID	PNT2022TMID47892
Project Name	Project – IOT based safety gadget for child safety monitoring and notifications
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 Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Sensors iot devices	Node red, IBM Watson Iot platform, web UI, Geofence, Cloudant DB
FR-4	Child safety	Monitoring and notifications
FR-5	Automatical device	Child in real time using gps, gsm, raspberry pi
FR-6	Wearable child safety device	Watches,alarm buzzler and wristbands

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Manufactures whose intended users include children must considered pertinent human factors and usability users
NFR-2	**Security**	A personal safety alarm is an loud alarm that scare your attacker and this device helps to the children
NFR-3	**Reliability**	Highest interrater reliability were about child abduction and honour-related violence
NFR-4	**Performance**	The performance the device provides timely and accessible performance data about the family support, child protection and youth justice systems.
NFR-5	**Availability**	The provides availability using redundancies at the IPM cloud platform
NFR-6	**Scalability**	Addressing child protection scaling opportunities and challenges