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

Date	16 October 2022
Team ID	PNT2022TMID35083
Project Name	Project - IOT Based Safety Gadget for Child safety Monitoring & Notification
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It can easily track and monitor the location of the child and share the information to parents
NFR-2	**Security**	The cloud database is highly secured and it prevent data from hacking issues
NFR-3	**Reliability**	Safety of the children is assured all the time.

| NFR-4 | **Performance** | Monitoring the child whether he/she is within the geofence |
| NFR-5 | **Availability** | To check the presence of child within the geofence area |

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 Gmail Registration through Number
FR-2	User Confirmation	Confirmation via Email and OTP
FR-3	User Login	login through User Id and Password
FR-4	Network Connectivity	via wifi/mobile data Internet connection with at least 10 to 20 kbps
FR-5	IBM IoT Platform	Access cloud storage via internet and it gives coordinates
FR-6	Node-RED	World Map node- Coordinates are converted into map location. Geofence - ensures the child is within the geofence
FR-7	Fast2sms	used to send pop up messages.

Non-functional Requirements:

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

| NFR-6 | **Scalability** | It can be adapted to both local and also larger areas based on the customer preference. |