

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

Date	17 October 2022
Team ID	PNT2022TMID04717
Project Name	Project - IOT Based Safety Gadget for Child safety Monitoring & 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	Register through Number or email
FR-2	User Confirmation	Confirmation via Email or message with generated OTP
FR-3	User Login	login through User Id and Password or through facebook
FR-4	Network Connectivity	Internet connection via wifi / mobile data
FR-5	IBM IoT Platform	Location coordinates are extracted from cloud
FR-6	Node-RED	Coordinates are converted into map location Geofence (Virtual boundary) to be set
FR-7	Fast2sms	Popup Notification sent through message

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Locating and monitoring children and sending notification to parents at ease
NFR-2	Security	Secured data in the cloud database and prevention of data from hackers
NFR-3	Reliability	Safety of the children is always ensured
NFR-4	Performance	Notifies when the children go out of geofence
NFR-5	Availability	Check whether the children are present or within the geofence
NFR-6	Scalability	Area can be either local or larger areas based on the caretaker's preference