

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

Date	20 October 2022
Team ID	PNT2022TMID19513
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-1	User Registration	Registration through website Registration through app
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User login	Setting up User Id and password
FR-4	App permission	Grant the permission for the app to access location, contact details etc..
FR-5	Interface with the Device	Use the device ID to connect the device with the registered app
FR-6	Setting Geo-Fence	Set the perimeter of area for geo fencing
FR-7	Database	Location history is stored in the cloud Can be accessed from the dashboard
FR-8	Tracking location	Tracking the location through website Tracking the location through app

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User-friendly Interface. The device is portable and easy to use. Easily Accessible.
NFR-2	Security	System requires the user to enter a user id and password to access. Location data can only be viewed by the user.
NFR-3	Reliability	If any issues with the gadget are discovered, an update will be given.

NFR-4	Performance	The performance of the device decrease in a network less area. Location tracking will be accurate.
NFR-5	Availability	If there is any update then the device wont be able to operate for an amount of time.
NFR-6	Scalability	Two users can simultaneously watch over the same gadget.