

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

Date	03 October 2022
Team ID	PNT2022TMID19925
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 Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Authentication	Only the authorized person for that project, Will Know Ensures security.
FR-4	User Interface	The Inventor Able to see the location of children they are out of geofence will also track the exact information about the children
FR-5	Notification	Notified through mobile and mail

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Accessed through Mobile App Showing location (latitude and longitude) of child and also other measures to ensure safety like notification. Portable and comfortable to use.
NFR-2	Security	Database security and ensuring the safety of the product while in use. Only the authorized person for that project, Will Know Ensures security.
NFR-3	Reliability	Once you logged in, it never been logged out until u logged out. It's a Comfortable platform and it creates a good Environment for Users to Use.
NFR-4	Performance	Datas are stored often and database need to be updated every few seconds

		A notification must be sent immediately if seen a change in the child's location
NFR-5	Availability	The data must be available whenever need and it can be retrieve anytime u need The product should be able to use at any time.
NFR-6	Scalability	It measure of a system's ability to increase or decrease in performance and cost in response to changes in application and system processing demands. The process must be flexible to use at anytime and versatile.