Functional & Non-functional Requirements

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Team ID	PNT2022TMID26473
Project Name	Project – IOT-Based Safety Gadget for Child Safety Monitoring and Notification

Functional Requirements:

Following are the functional requirements of the proposed solution.

SI No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1.	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
2.	User Confirmation	Confirmation via Email Confirmation via OTP
3.	Authentication	Only the authorized person for that product will know Ensures security
4.	User Interface	The Inventor Able to see the location of children when they are out of geofence will also track the exact information about the children
5.	Notification	Notified through mobile and mail

Non-functional Requirements:

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

SI No.	Non-Functional Requirement	Description
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.
2.	Security	Database security and ensuring the safety of the product while in use.
3.	Reliability	Once logged in, the webpage is available until logging out of the app, and a comfortable platform or creates a good environment for users to use.
4.	Performance	Each page must load within 4 seconds and database needs to be updated every few seconds and a notification must be sent immediately if seen a change in the child's location.

5.	Availability	The data must be available whenever needed and the product should be able to use at any time.
6.	Scalability	The process must be flexible to use at anytime and versatile.