

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID18987
Project Name	IOT Based Safety Gadget Child 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	User login	Setting up User ID and Password
FR-4	App Permission	Grant the permission for the app to access location, contact etc...,
FR-5	Interface with the Device	Connecting the device with the registered app with the device ID.
FR-6	Setting Geo-location	Creating the Geo-location area in the map

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It is very useful for parents to monitor their children from anywhere remotely. They can guard their children from unknown person .so that safety can be ensured and crime rate will be reduced.

NFR-2	Security	This device is mainly used for the security purpose of the children .This device sends an SMS when the child reaches out of particular location to the parents.
NFR-3	Reliability	This device provides maximum reliability.it alert the parents by sending SMS and through the buzzer sound.
NFR-4	Performance	The performance of device is very good. It provides more safety when the parents are not nearer to the child.
NFR-5	Availability	This device is more economical and provides maximum safety for the children. It is sufficient to the parents who wants to ensure their child's safety.
NFR-6	Scalability	This device is very small and easy to wear. The child does not feel any in secureness.