

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	13 October 2022
Team ID	PNT2022TMID01040
Project Name	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	<ul style="list-style-type: none">Registration through FormRegistration through GmailRegistration through LinkedIn
FR-2	User Confirmation	<ul style="list-style-type: none">Confirmation via EmailConfirmation via OTP
FR-3	App installation	<ul style="list-style-type: none">Installation through linkInstallation through play store
FR-4	Location History	<ul style="list-style-type: none">Used to detect the location preciselyPoint -to-point location can be seen in the app
FR-5	GPS tracking	<ul style="list-style-type: none">In order to track the location, GPS module needs to be implemented.
FR-6	Battery Life	<ul style="list-style-type: none">Since the gadget works on the basis of battery life, the life of the battery should be long lasting.So the main aim is to provide additional battery(spare), which is used when they forgot to charge the battery

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">✚ Since it uses GSM, which helps to inform the current situation and danger accurately and immediately to parents.
NFR-2	Security	<ul style="list-style-type: none">✚ Provides assurance to parents(specially working parents)about the security of their child✚ Develop the parents to monitor and locate the location of the child
NFR-3	Reliability	<ul style="list-style-type: none">✚ Easy to access and to use✚ Easy to handle✚ Portable
NFR-4	Performance	<ul style="list-style-type: none">✚ Instance notification is sent to the child's parent immediately✚ Location of the child is stored for the future use
NFR-5	Availability	<ul style="list-style-type: none">✚ Amber alert GPS✚ Accessing of location
NFR-6	Scalability	<ul style="list-style-type: none">✚ Gives more confident to the parents about child safety✚ Easily approaching the child with the help of GSM