

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

Date	1 November 2022
Team ID	PNT2022TMID33996
Project Name	Project - IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING & 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 Gmail Registration through message Registration through website Registration through App Registration through Call Registration through Social Media
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	App Installation	Installation through Link Installation through Play Store/App Store
FR-4	User Interface	User login form Admin login form
FR-5	Detecting Child Location	Detecting location via app Detecting location via SMS Detecting location through Website Detecting location through GPS
FR-6	User Notification	Notification through Message Notification through Gmail

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">● A midget setup via the application is made in the mobile that helps to send SMS to parents.● The gadget has a GSM that aids in informing the parents/guardian about the current location of their kids which in turn helps the parents/guardians take immediate action when any crisis occurs.● The gadget is compact and effortless to operate and its applications are fool proof.
NFR-2	Security	<ul style="list-style-type: none">● The device is designed in such a way that it builds a safe environment for children to go outside.● It gives a sense of assurance to parents about

		their children's security as the gadget uses GPS and GSM to track their live location
NFR-3	Reliability	<ul style="list-style-type: none"> ● Inflated reliability towards the mechanism and curtail reliability towards parents/guardians. ● It is transportable, Easy to access, and also tensile. ● We can use the cloud to accumulate the surveillance data of the children. ● The wifi modules are of assistance in sending the monitoring particulars, the user will be notified with an update if any errors are found, for the efficient functioning of the device
NFR-4	Performance	<p>The device is used to keep tab son your child even in a horde.</p> <p>It also provides the current location along with travel details.</p>
NFR-5	Availability	The web page' s load time should be no more than one second for the user's elevate performance concerning simple aidance and security.
NFR-6	Scalability	If an intricacy arises parent scan see some of the at tributes like the location , temperature , and heartbeat of the child along with living perspective around the children without deterrence.