

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

Date	03 October 2022
Team ID	PNT2022TMID45390
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 Form• Registration through Gmail• Registration through LinkedIn
FR-2	User Confirmation	<ul style="list-style-type: none">• Confirmation via Email• Confirmation via OTP
FR-3	User Login with respective ID	<ul style="list-style-type: none">• Login through website• App using the respective username and password
FR-4	User Access	<ul style="list-style-type: none">• Access the app requirements
FR-5	User Upload	<ul style="list-style-type: none">• User should be able to upload the data
FR-6	User Solution	<ul style="list-style-type: none">• Data report should be generated• Delivered to user for every 24 hours
FR-7	User Data Sync	<ul style="list-style-type: none">• API interface to increase to invoice system
FR-8	User Guide	<ul style="list-style-type: none">• Guides the basic steps of using the application

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">• Access through mobile app showing location of child
NFR-2	Security	<ul style="list-style-type: none">• Database security must hipaa requirements
NFR-3	Reliability	<ul style="list-style-type: none">• Once logged in, webpage is available until logging out of the app
NFR-4	Performance	<ul style="list-style-type: none">• Each page must load within 2 seconds
NFR-5	Availability	<ul style="list-style-type: none">• The process must finish within 3 hours so data is available bt 8 am local time after an overnight update
NFR-6	Scalability	<ul style="list-style-type: none">• We can increase scalability by adding memory, servers, or disk space. On the other hand, we can compress data, use optimizing algorithms.• The website attendance limit must be scalable enough to support 500,000 users at a time.