

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

Date	18 October 2022
Team ID	PNT2022TMID04092
Project Name	Project - 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	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Notification	Notification Via Mobile App and normal message
FR-4	Monitoring	App to monitor the child location
FR-5	Health monitoring	Heart beat rate , Temperature

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	This model has GSM that can help to notify the parents in case of emergency or the smart band not connected
NFR-2	<b>Security</b>	Parents can feel secure because if the child forget or not connect the band it will notify the parents and if panic button is pressed it will send alert message and parents able to track the location
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>✓ Easy to use</li><li>✓ Portable</li><li>✓ Flexible</li><li>✓ Cost effective</li></ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"><li>✓ Create a Child tracker which helps the parents with continuously monitoring the child's location.</li><li>✓ The notification will be sent according to the child's location to their parents or caretakers.</li></ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"><li>✓ Track your child even in a crowd</li><li>✓ Know the current location</li></ul>

NFR-6	<b>Scalability</b>	This model ensures the safety and tracking of the children. Parents need not worry about their children.
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