

## **Project Design Phase-II**

### **Solution Requirements**

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Date	15 October 2022
Team ID	PNT2022TMID43259
Project Name	IOT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 Marks

### **Functional Requirements:**

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Register phone number	<ol style="list-style-type: none"><li>1. Confirmation by sending OTP.</li><li>2. Confirmation by calling.</li></ol>
FR-2	Navigation and tracking	<ol style="list-style-type: none"><li>1. Monitoring the live location of the child by GPS tracker.</li><li>2. Check whether the child is within the limited area or not.</li></ol>
FR-3	Notification	<ol style="list-style-type: none"><li>1. When the child is out of the range.</li><li>2. When the child is reaching and leaving the school.</li><li>3. Sudden changes in the health of the child.</li></ol>
FR-4	Alarm ring and sending message	<ol style="list-style-type: none"><li>1. When the panic button is ON.</li><li>2. When the child is kidnapped or missing.</li><li>3. When the sensed data exceed the threshold value.</li></ol>
FR-5	Privacy and encryption	<ol style="list-style-type: none"><li>1. End to end encryption where strangers cannot operate.</li></ol>

		2. Access only by parents and some family members.
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### **Non Functional Requirements:**

<b>NFR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	Usability	The system shall be usable within few minutes of training.
NFR-2	Security	The system and sensed data can be accessed only by the parents not by the strangers.
NFR-3	Maintainability	The system shall be maintainable whenever failure occurs.
NFR-4	Accuracy	The system shall give the accurate result for different factors using sensing material. As a result, there will not be any distractive messages.
NFR-5	Reliability	The timing of the notification directly affects how the effectivity of the system is perceived.
NFR-6	Performance	The system is cost effective comparing to the features it provides.