Project Design Phase-II
Solution Requirements (Functional and Non-Functional)

Date	16 October 2022
Team ID	PNT2022TMID33515
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum marks	4 Marks

Functional Requirements :

FR No.	Functional Requirement(Epic)	Sub Requirement(Story / Sub-Task)
FR-1	Authentication	An SMS is sent to the parents mobile when abnormal values are read by the sensor
FR-2	External Interfaces	Temperature sensor, Touch sensor, heartbeat sensor, GSM, GPS modules and serial camera
FR-3	Reporting	1. Whenever the pulse rate value is less than 400 then automatically sent an SMS alert to the mobile 2. Touch is not identified by the touch sensor, then automatically an SMS alert is sent to the mobile
FR-4	Business rules	Provide good environment where child safety problems are resolved in an efficient manner

Non-functional Requirements :

Following are the non-functional requirements of the proposed solution

NFR No.	Non-functional requirement	Description
NFR-1	Usability	Make parents easily monitor the children in real-time
NFR-2	Security	Detects the status of the child and alert the respective guardian
NFR-3	Reliability	High accuracy, reliability and short response time when the child is in danger
NFR-4	Performance	Identifying what standards are being monitored
NFR-5	Availability	To show the child's actual data with reference values
NFR-6	Scalability	GPS is installed on gadget to track its current location can be tracked on android application