VSB Engineering College, Karur-639111
Department of Electronics and Communication Engineering

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

TITLE   : IoT-Based Safety Gadget ForChild Safety Monitoring And Notification.

DOMAIN NAME : Internet Of Things

TEAM ID   : PNT2022TMID33608

TEAM LEADER   : Sindhuja J

TEAM MEMBER : Sangeetha R

                       Shooriya Prabhaa S

                       Sarumathi J

MENTOR NAME   : Nandhini. P

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 Registration through SMS Registration through Call Registration through Facebook Registration through Instagram
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP Confirmation via Call

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	*A mobile mini setup will help send the SMS to parents. *We can use sensors to turn on the mic of the child's side.
NFR-2	**Security**	*We can use sensors to detect the child's heartbeat and temperature. *We can use the GPS and GSM to track the live location.
NFR-3	**Reliability**	*We can use the cloud to store the monitoring data of the children. *We can use the wifi modules to send the monitoring data.
NFR-5	**Availability**	*This system is developed using a board programmed in embedded C and interfaced with temperature, and heartbeat. *It is available in online.
NFR-6	**Scalability**	*It is clearly explained the IoT concept, child safety issues, and the need of using a child security System. *Child safety can be ensured and the crime rate will be reduced.
NFR-4	**Performance**	*The novelty of the work is that the system automatically alert the parent /caretaker by sending an SMS when immediate attention is required for the child during emergency. *The parameters such as touch, temperature, and heartbeat of the child used for parametric analysis..