

PROJECT DESIGN PHASE -2
SOLUTION REQUIREMENTS (FUNCTIONAL & NON FUNCTIONAL)

Date	27 October 2022
Team ID	PNT2022TMID45386
Project Name	Project - iot based safety gadget for child 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	GPS LOCATION	GPS sensors are receivers with antennas that use a satellite-based navigation system with a network of 24 satellites in orbit around the earth to provide position, velocity, and timing information.
FR-2	TEMPERATURE SENSOR	A temperature sensor is an electronic device that measure the temperature of its environment and converts the input data into electronic data to record,monitor, or signal temperature changes.
FR-3	ALARAM BUZZER	A Buzzer can be used to audibly indicate status changes for the vehicle.depending on the board capabilities, this can be active device.
FR-4	CLOUD	computing is used to store IOT data it is an easy travel method for large data packages generated by the IOT throuCloud gh the internet.
FR-5	INTERNET	Internet is an electronic communications network that connects computer networks and organizational computer facilities around the world.
FR-6	MOBILE PHONE	To get notification through the internet .

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Child safety is guarantee and crime rate is reduced as immediate action can be taken in case the child is in danger.
NFR-2	Security	In real time using internet of things with the help of GSM ,GPS.
NFR-3	Reliability	The reliability model of the device is a network model which can better express the safety logic relations.
NFR-4	Performance	Performance provides timely and accessible performance data about the family support child protection and youth justice system.
NFR-5	Availability	A smart iot device for child safety and tracing is developed to help the parents to locate and monitor their children.
NFR-6	Scalability	Easy to maintain Low cost