

Project Design Phase-II

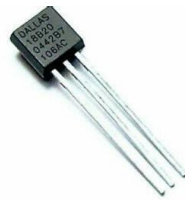
Funtional Requirements

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Project Name	Project – Iot Based Safety Gadget for child safety monitoring and notification.

Function Requirements

1. Temperature sensor

The device's temperature can be determined using the temperature sensor. If the temperature rises beyond the set threshold, a GSM alarm message will be sent to the designed users.



Temperature sensor

2. Pulse sensor

The pulse sensor is used to identify any unusual emotion that a kid may be experiencing, such as fear, worry, nervousness, drowsiness, and a number of other disorders that alter the child's normal heart rate.



Pulse sensor

3. GPS

We can use both web applications as well as a mobile application or either one of them as the front-end user interface, cloud, and database as the back end for storing and retrieving information, and a device for monitoring.



GPS

4. GSM

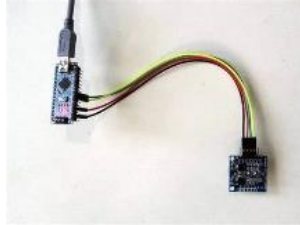
The child's guardians will each receive a GSM alarm call if the child crosses the defined boundary.



GSM

5. Web Camera

These values are used to alert the specified guardians through SMS using GSM. When the user receives these alert messages from that device, they can turn on the web camera placed in that device, with which they can visually monitor the status of that child through the live video stream.



WEB CAMERA

6. Raspberry pi microprocessor

The Raspberry Pi is a microprocessor as it is a single-board computer, can host the operating system, and can perform multiple applications at the same time where the microcontrollers are programmed for the single application.



RASPBERRY PI MICROPROCESSOR