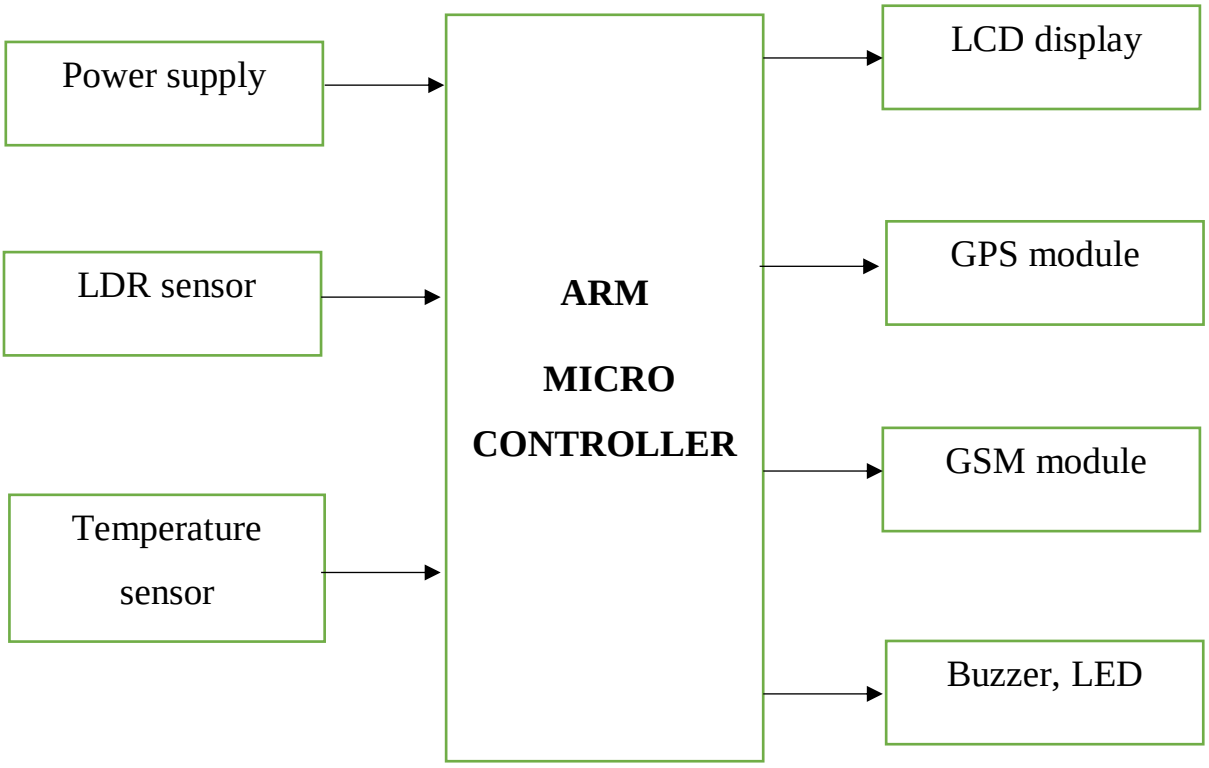
BLOCK DIAGRAM OF EXISTING SYSTEM:



The Temperature sensor senses the surrounding temperature and uses a thermistor to do this. This device also uses Liquid Crystal Display (LCD) to display the information regarding the current status of the system, an LED as an indicator lamp, an LDR that measures light intensity and a Buzzer section to alert the completion of a process, along with GPS and GSM modules for tracking location and communicating with the user device.

DISADVANTAGES OF EXISTING SYSTEM:

- It is not compatible with X86 hence it cannot be used in Windows.
- The speeds are limited in some processors which might create problems.
- Scheduling instructions is difficult in case of ARM processors.
- There must be proper execution of instructions by programmer. This is because entire performance of this processors depends upon their execution.

- This Processor needs very highly skilled programmers. This is because of importance and complexity of execution (processor shows lesser performance when not executed properly.).

PROPOSED SYSTEM

EXPLANATION OF PROPOSED SYSTEM:

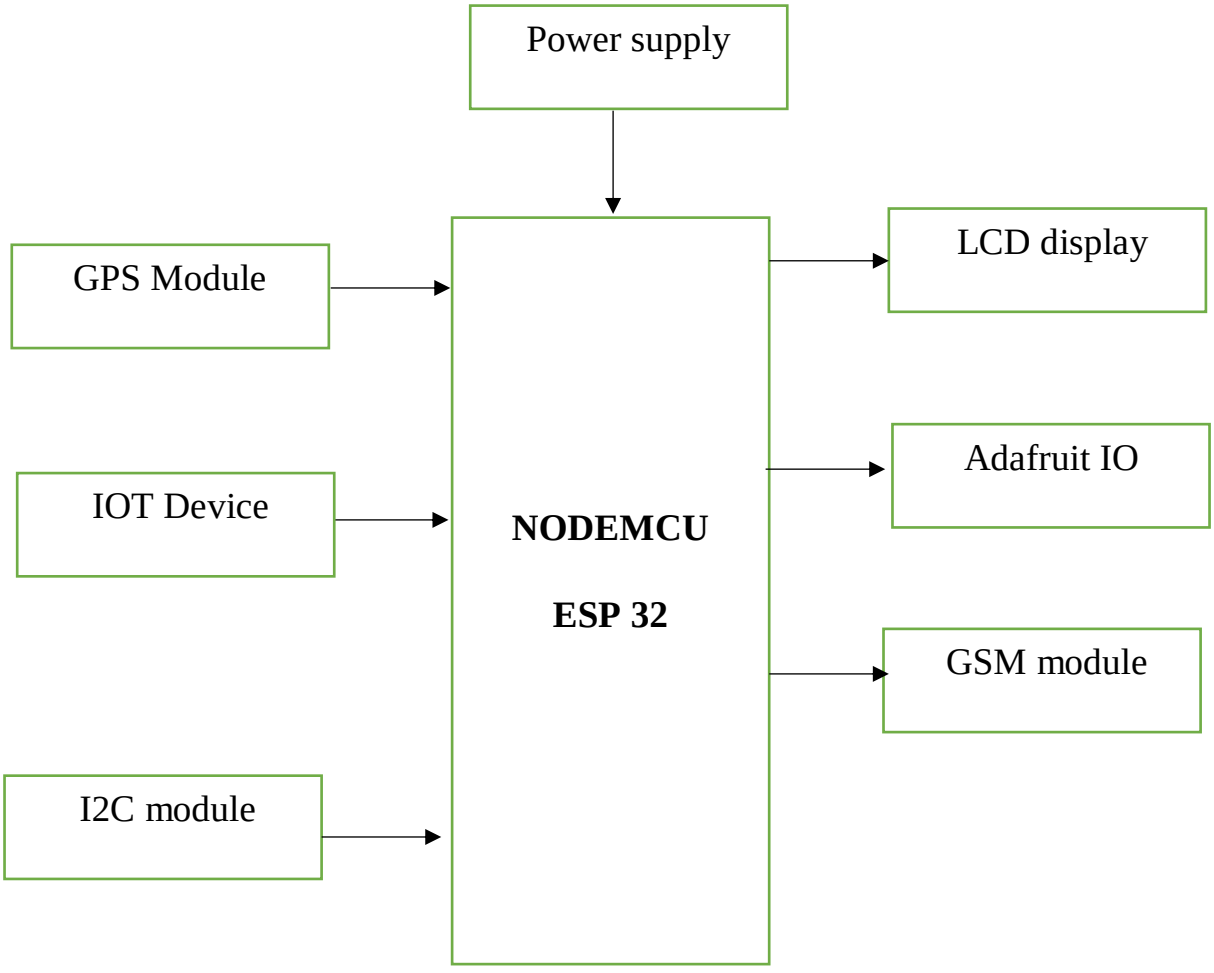
In this project, a sensor is linked to a child belt to observe your child's activities. whenever a youngster enters the parents will receive an SMS when the school bus arrives, and Parents may track their child's whereabouts using GPRS. through a system that was created. When a child enters the classroom, a camera is activated. Parents receive the video clip when the classroom is activated. Here, information is stored via cloud computing. And Information is provided anytime a youngster plays at a playground to parents. Therefore, these areas are safe for children. Imagine if When a child leaves this safety zone, an alarm message is transmitted through GPRS and finally to the parents.

Additionally, instructors may provide parents with a daily overview of their child's location, and the institution can monitor a child's progress from home to school and back again. Parents' concerns about their children's safety are so lessened.

Since parents are cautious about their children's security, businesses may employ this product and enjoy high market productivity. the visual depiction of a GPS-based child monitoring system. NODEMCU serves as an interface for connecting a mobile device to a GSM module.

The GSM module employed here assists in sending the user's notification alerts. ESP32 is the SoC (System on Chip) microcontroller which has gained massive popularity recently.

BLOCK DIAGRAM OF PROPOSED SYSTEM:



Block diagram of proposed system

ESP 32 provides Wi-Fi (and in some models) dual-mode Bluetooth connectivity to embedded devices. While ESP32 is technically just the chip, modules and development boards that contain this chip are often also referred to

as “ESP32” by the manufacturer. I2C Module can transfer data between a central processor and multiple ICs on the same circuit board using just two common wires and it is widely adopted for short distance synchronous serial communication.