ABSTRACT

IoT Based Safety Gadget for Child Safety Monitoring and Notification

TEAM MEMBERS

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PROBLEM STATEMENT:

INDIA is the nation with the youngest minds, protecting them and giving a healthy mindset is the duty of every citizen of INDIA, our major contribution is in developing a holistic system encompassing the three crucial aspects, i.e. crime analysis and mapping, crime prevention, and emergency response by leveraging societal participation for Children, most of the crimes against Children can be avoided, if they are given protection with timely help and support. Here the problem of kids from age 5-12 is noted and solution is proposed.

The main problem they face is misguidance, harassment, lack of awareness etc. We propose a model to eliminate these problems

We are proposing an easily wearable gadget that is cost efficient and easily accessible by everyone. It would contain GPS,GSM, Accelerometer sensor, pulse sensor and IoT module all embedded in it and would record all the data such as location, health conditions and sudden rapid movements made and would instantly update all the information to the cloud through which anyone who has the access can view it, It also has a SOS button through which if it is pressed an automatic alarm will be sent to the relatives and the nearby police

station, By optimizing it we can reduce the latency, increase the response rate and smaller the size making it easy to wear

OBJECTIVE OF THE PROJECT:

By the end of this project

- ✓ Hands on experience on Thinker CAD platform
- ✓ Connecting IoT devices to the IoT platform and exchanging the data
- ✓ Working with different kinds of sensors and interfacing it to the controller
- ✓ Working with GSM and GPS Module

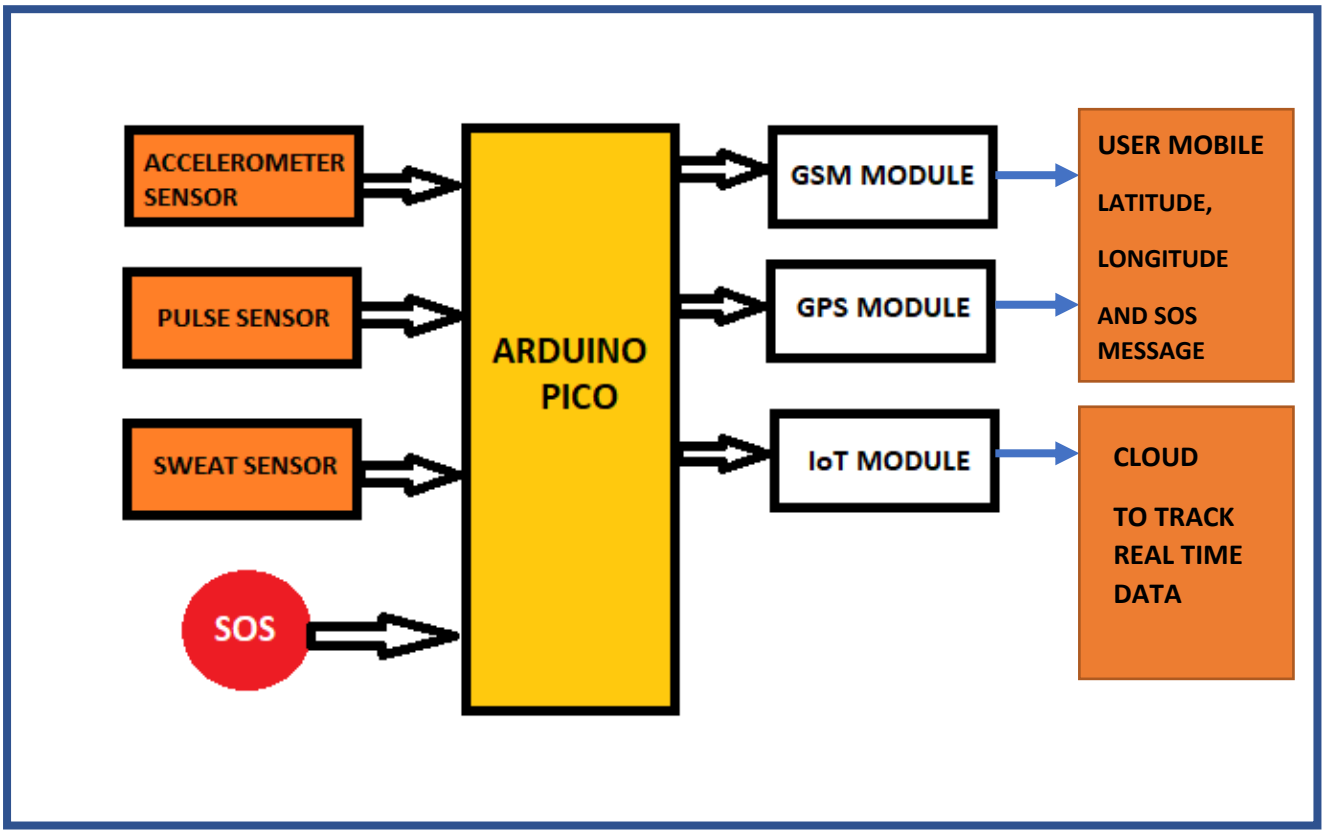
SOFTWARE REQUIRED:

- ✓ ARDUINO IDE

HARDWARE REQUIRED:

- ✓ ARDUINO PICO
- ✓ NB-IoT EC-01-Kit
- ✓ SIM28ML GSM GPRS Module
- ✓ ACCELEROMETER SENSOR
- ✓ PULSE SENSOR
- ✓ SWEAT SENSOR

PROPOSED MODEL:



WEARABLE GADGET