PROJECT TOPIC: Smart Wearable AI IOT for Appliance Control

Group No.:

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About the Project:

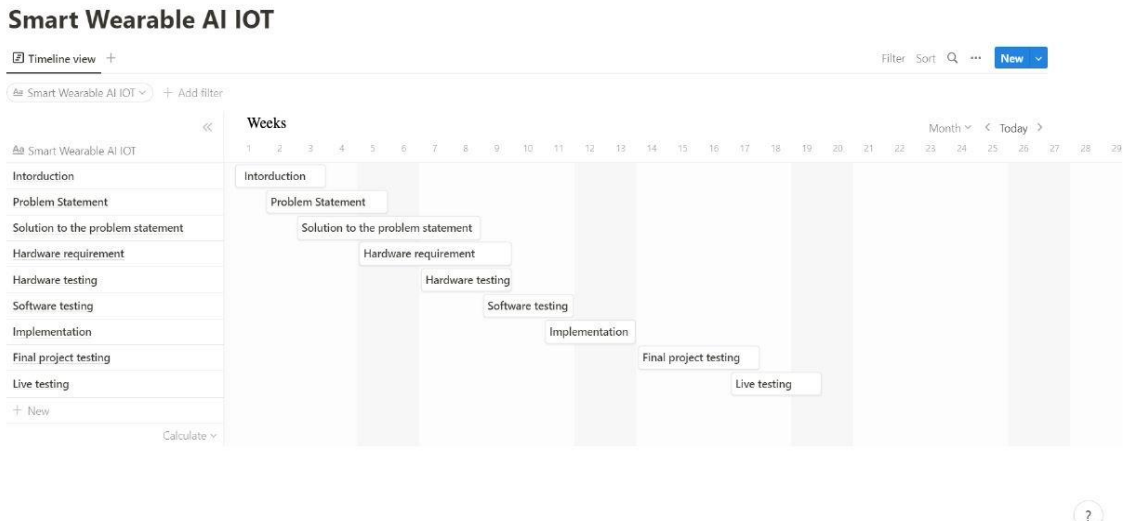
The present invention provides a Low-Cost Wearable Health Monitoring Device comprising plurality of sensors to measure the vital information of an old or disabled person; a module consisting pre-programmed controller which store the normal vital parameter to be monitored, during old age and based on comparison generating an alert signal which is transmitted through a transmitter to ambulance, doctor and family member; a communication device adapted for continuous establishment of network with the data storing means where the vital information gets stored; and output means from where the family member and doctor can access the information. The system has an advantage of creating a proper database of the old/disabled person and is cost-efficient and reliable.

Motivation:

In the past few years, we have realised that the Elderly or a disabled face a lot of problems. The motivation behind this project is to provide an elderly or a disabled person a complete all-in-one package to monitor the health of the person and provide insights about health to both guardian and the doctor.

Adding to its features, the kit will come with a dedicated application and a fall alert system.

Project Planning: Deciding problem statement, Drawing solution statement, hardware and software selection, Implementation, Data Collection and drawing constraints , Hardware Testing, Software Testing, Live Testing.



Tools required:

Hardware Requirements:
Heart Rate Sensor
GSR Sensor
MPU-6050
Analog Temperature Sensor
RFID Reader/Writer
Capacitive Touch Sensor
Node MCU ESP-8266

Software Requirements:

Arduino IDE

ThingWorx

MIT App Inventor

Signature of Project Supervisor: _____