**PROJECT TOPIC: Smart Wearable AI IOT for Appliance Control**

**CSE Group No.:**73

**Project Group Members:**

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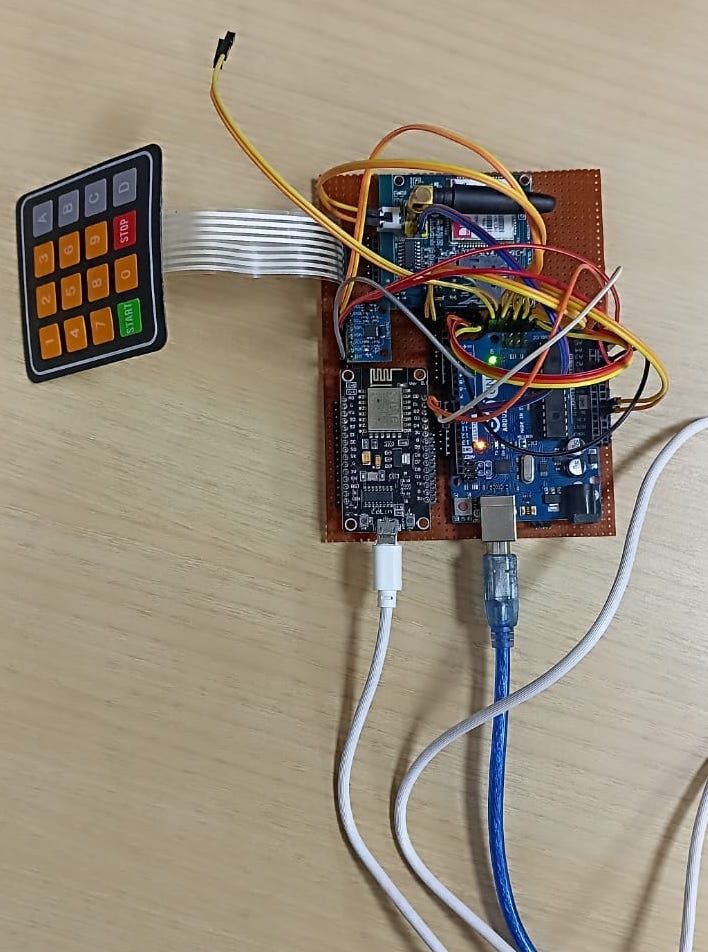
**Objective:** The Smart Wearable AI-IOT system is a cutting-edge solution that provides comprehensive health monitoring and home automation capabilities to users at an affordable cost. The system uses advanced sensors and AI algorithms to monitor the user's vital signs and detect any abnormalities. In case of an emergency, the system can alert the user's doctor and guardian. The system also allows users to control their home appliances from their wearable devices, providing added convenience and accessibility. Data privacy and security are ensured through adherence to data protection regulations, secure communication protocols, and user authentication and authorization mechanisms. Overall, the Smart Wearable AI-IOT system provides users with a powerful and affordable solution for health monitoring and home automation..

**Tools required:**

* **Hardware Requirements:**
* Heart Rate Sensor
* MPU-6050
* Analog Temperature Sensor
* Capacitive Touch Sensor
* Node MCU ESP-8266
* Arduino Uno
* **Software Requirements:**
* Arduino IDE
* Thing Worx

**Abstract:** Introducing the Low-Cost Wearable Health Monitoring Device - an affordable and innovative solution designed to monitor the vital information of older or disabled individuals. With a plethora of sensors, this device provides real-time measurement of essential health parameters, such as heart rate. The pre-programmed controller stores the normal vital parameter range to be monitored during old age, enabling the device to generate instant alert signals via a transmitter to doctors, family members, and ambulances, ensuring timely medical intervention when necessary. This Low-Cost Wearable Health Monitoring Device is a cost-efficient and reliable solution, enabling regular monitoring of health without incurring substantial costs. The device creates a proper database of the individual, ensuring that medical professionals have access to vital information, even in emergency situations

**Outcome:**

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