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1. Smart Home Automation System

- **Description**: Create a home automation system that allows users to control lights, appliances, and security features remotely via smartphone.
- **Technologies**: ESP8266/ESP32, MQTT, IoT, Blynk, Sensors, Relays.

2. Health Monitoring Wearable Device

- **Description**: Develop a wearable device that tracks health parameters such as heart rate, temperature, and oxygen saturation.
- Technologies: Microcontroller, Pulse Oximeter (MAX30100/30102), Bluetooth, OLED Display.

3. Automated Water Level Monitoring and Control System

- **Description**: Build a system to automatically monitor and control water levels in tanks, preventing overflows or shortages.
- **Technologies**: Ultrasonic sensors, Arduino/ESP8266, IoT, Mobile App.

4. Smart Irrigation System

- **Description**: Develop an automated irrigation system that optimizes water usage based on soil moisture and weather conditions.
- **Technologies**: Soil Moisture Sensors, ESP32, Cloud IoT, Blynk.

5. GPS-Based Vehicle Tracking System

- **Description**: Design a vehicle tracking system that provides real-time location updates and route history.
- **Technologies**: GPS Module, GSM Module, Arduino, Web/Mobile App.

6. Energy Meter with IoT Connectivity

- **Description**: Create a smart energy meter that monitors energy consumption and sends data to a cloud platform for analysis.
- **Technologies**: Energy Meter Module, ESP8266, IoT Platform (Thingspeak), MQTT.

7. Home Security System with Motion Detection

- **Description**: Develop a home security system that detects motion and alerts the homeowner via smartphone notifications.
- **Technologies**: PIR Sensors, ESP32, Camera Module, IoT, Blynk.



MIG~19/41, RAYAKOTTA~HOUSING~BOARD, RAILWAY~STATION~ROAD, HOSUR635109

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8. Digital Door Lock System

- **Description**: Build a digital door lock controlled by RFID or fingerprint sensors for access control.
- **Technologies**: Arduino, Fingerprint Sensor, RFID Module, Servo Motor.

9. Bluetooth-Controlled Robot

- **Description**: Design a robot that can be controlled via Bluetooth from a smartphone app.
- **Technologies**: Arduino, HC-05 Bluetooth Module, Motors, L298 Motor Driver.

10. Voice-Controlled Home Automation

- **Description**: Implement a system where home appliances can be controlled via voice commands using Google Assistant.
- **Technologies**: ESP32, Google Assistant, IFTTT, Relays.

11. Smart Traffic Light System

- **Description**: Create an intelligent traffic light system that adapts based on real-time traffic data to reduce congestion.
- **Technologies**: Arduino, IR Sensors, ESP8266, Cloud IoT.

12. Weather Station with Data Logging

- **Description**: Develop a weather station that collects temperature, humidity, and pressure data and uploads it to a cloud platform.
- **Technologies**: DHT11, BMP180, ESP8266, Thingspeak.

13. Blind Assistance System

- **Description**: Create a wearable system to assist visually impaired people by detecting obstacles and providing audio feedback.
- **Technologies**: Ultrasonic Sensors, Arduino, Speaker, Bluetooth.

14. Automatic Street Light System

- **Description**: Build a system to control streetlights based on ambient light and traffic flow.
- **Technologies**: LDR, Arduino, Relays, IoT, Mobile App.

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15. Voice-Activated Wheelchair

- **Description**: Design a voice-controlled wheelchair to assist people with mobility challenges.
- Technologies: Arduino, Voice Recognition Module, DC Motors, L298 Motor Driver.

16. Gas Leak Detection System

- **Description**: Implement a gas leak detection system that sends alerts and triggers an alarm in case of leaks.
- **Technologies**: Gas Sensor (MQ-2), ESP8266, Buzzer, IoT.

17. Smart Parking System

- **Description**: Develop an IoT-based smart parking system that detects available parking spots and updates a mobile app.
- **Technologies**: Ultrasonic Sensors, ESP8266, IoT Cloud, Mobile App.

18. Automatic Plant Watering System

- **Description**: Create a system that automatically waters plants based on soil moisture levels.
- **Technologies**: Soil Moisture Sensor, ESP8266, Water Pump, IoT.

19. Smart Baby Monitor

- **Description**: Build a baby monitor that tracks a baby's vital signs and sends real-time updates to parents.
- **Technologies**: ESP32, Pulse Sensor, Sound Sensor, IoT.

20. RFID-Based Attendance System

- **Description**: Create an RFID-based system to track and record attendance automatically.
- **Technologies**: Arduino, RFID Module, LCD Display, IoT for data logging.