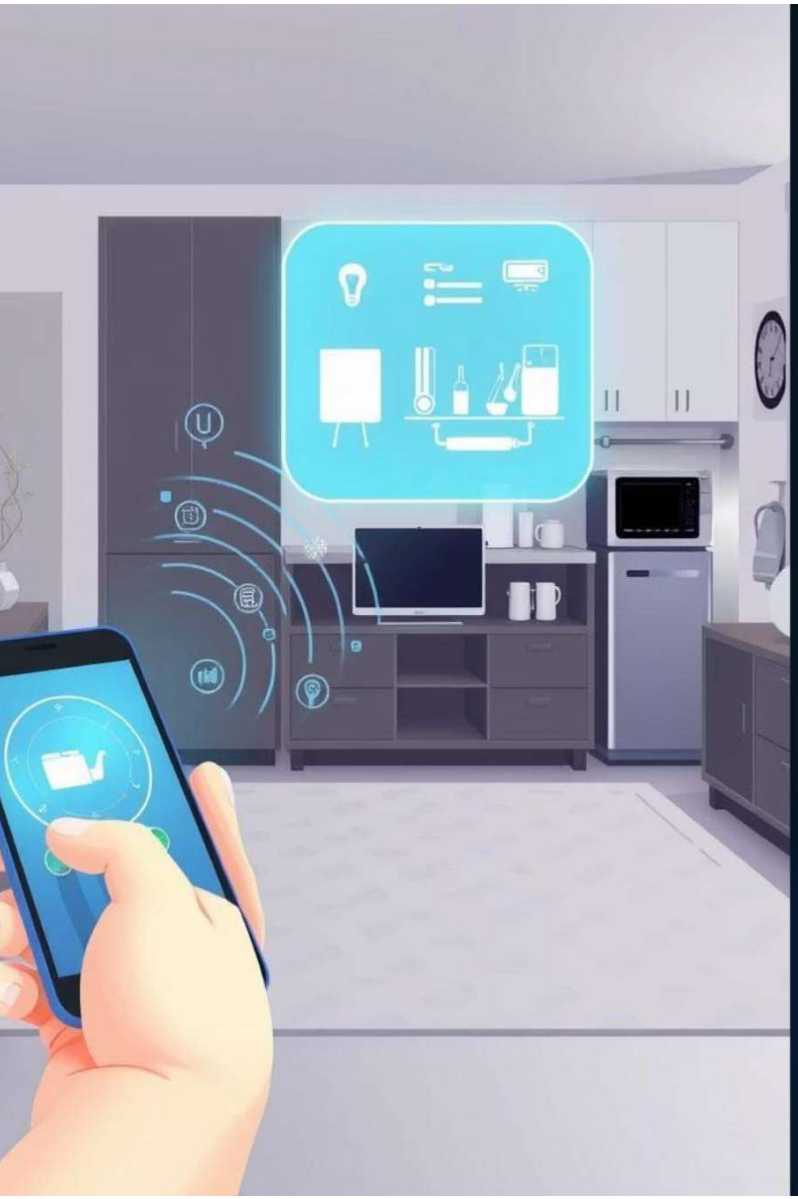
Smart Home Sense

IoT system for remote monitoring and control of home appliances.



Introduction to Smart Home Sense

What is Smart Home Sense?

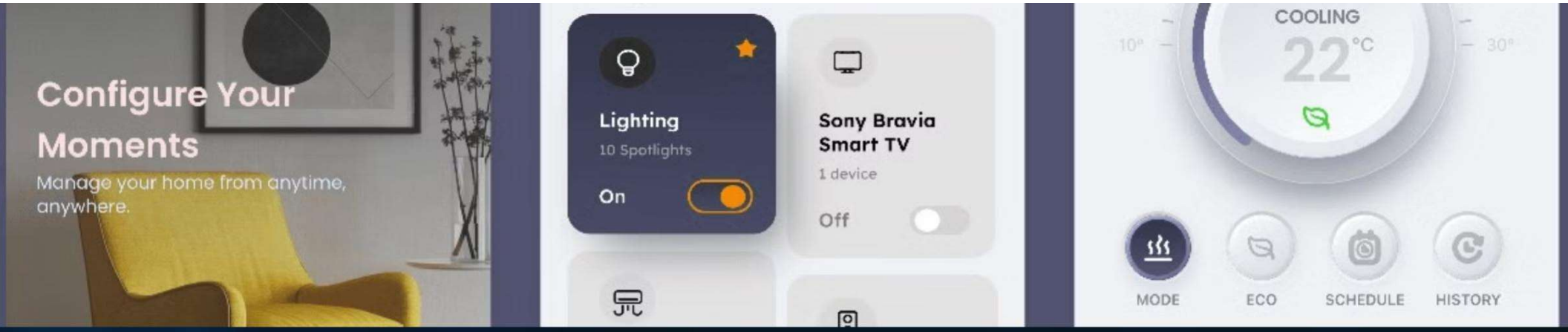
Smart IoT system for remote appliance control and monitoring.

Problem

Manual appliance operation causes inconvenience and energy waste.

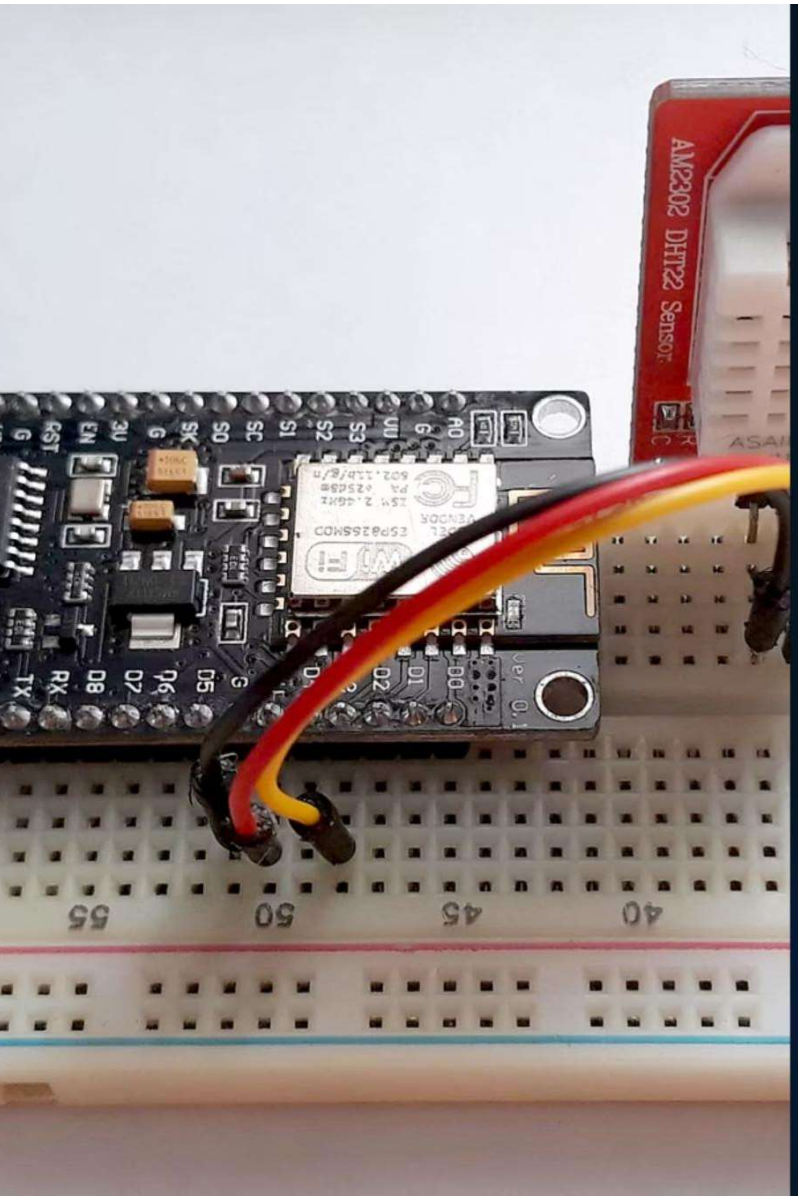
Solution

Automation and live monitoring improve convenience and efficiency.



Key Features

- Remote control via phone web interface
- Live temperature and humidity monitoring
- Auto appliance operation by room temperature
- Real-time device status updates



System Components

NodeMCU/ESP8266	Wi-Fi enabled microcontroller
DHT11 Sensor	Measures temperature and humidity
Relay Module	Electronic appliance switching
Smartphone	User control web interface
Power Supply	Provides necessary circuit power

How It Works

Sensor

DHT11 captures temp and humidity

Microcontroller

NodeMCU processes data and connects Wi-Fi

Data Transmission

Sends info to smartphone web interface

User Control

User monitors and issues appliance commands

Appliance

Relay switches appliances ON/OFF

Web/App Interface

ON/OFF Appliance Buttons

Manual control over every device

Auto Mode Toggle

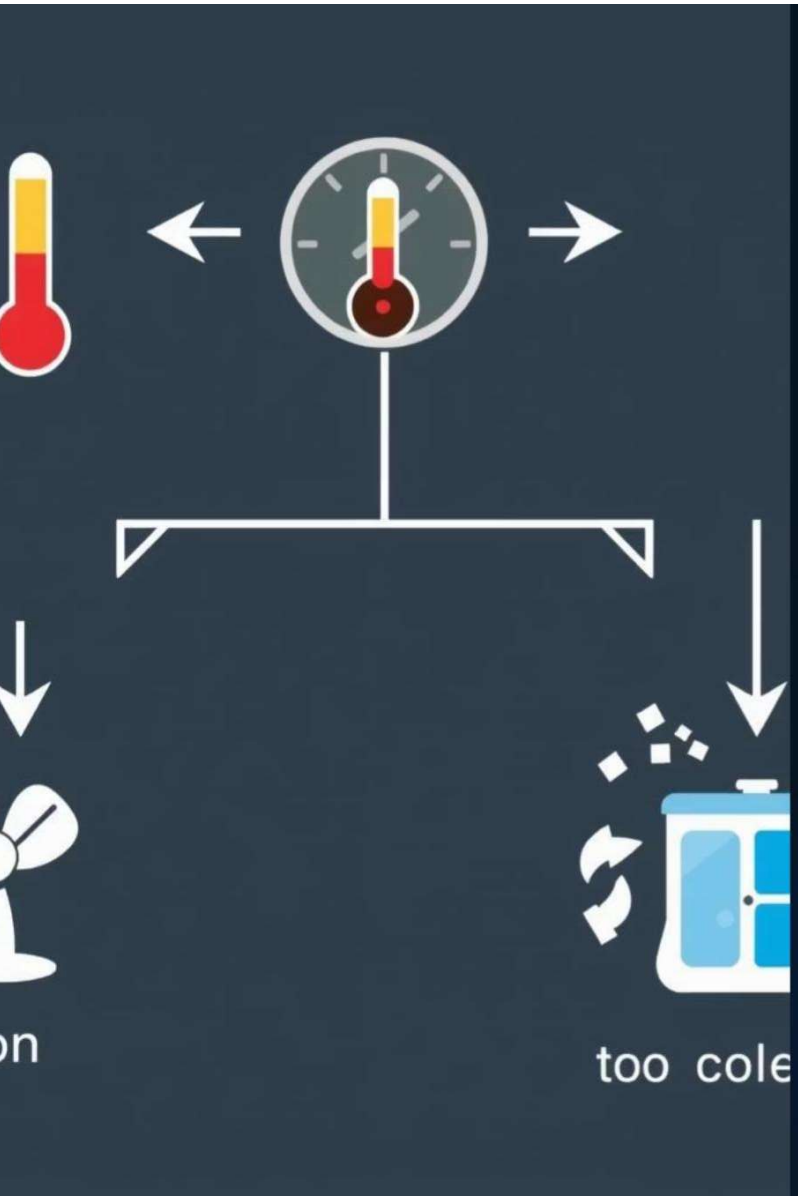
Enable automatic temperature-based control

Real-Time Environment Data

Live temperature and humidity display

Status Indicators

Current operational status of appliances



Auto Mode Logic

- Temp > 30°C

  Fan or cooler turns ON

- Temp <= 30°C

  Fan or cooler turns OFF

Advantages of Smart Home Sense

- Remote control convenience anywhere
- Energy savings through automation
- Real-time monitoring of home environment
- Reduces human error and effort

Use Cases

Homes - living rooms, bedrooms, kitchens

Offices - conference rooms and workspaces

Schools - classrooms and staff rooms

Shops - retail and storage areas

Smart Home vs Traditional Home

Feature	Traditional Home	Smart Home Sense
Control	Manual	Mobile-based
Temperature Monitoring	None	Live
Auto Function	No	Yes
Energy Efficiency	Low	High