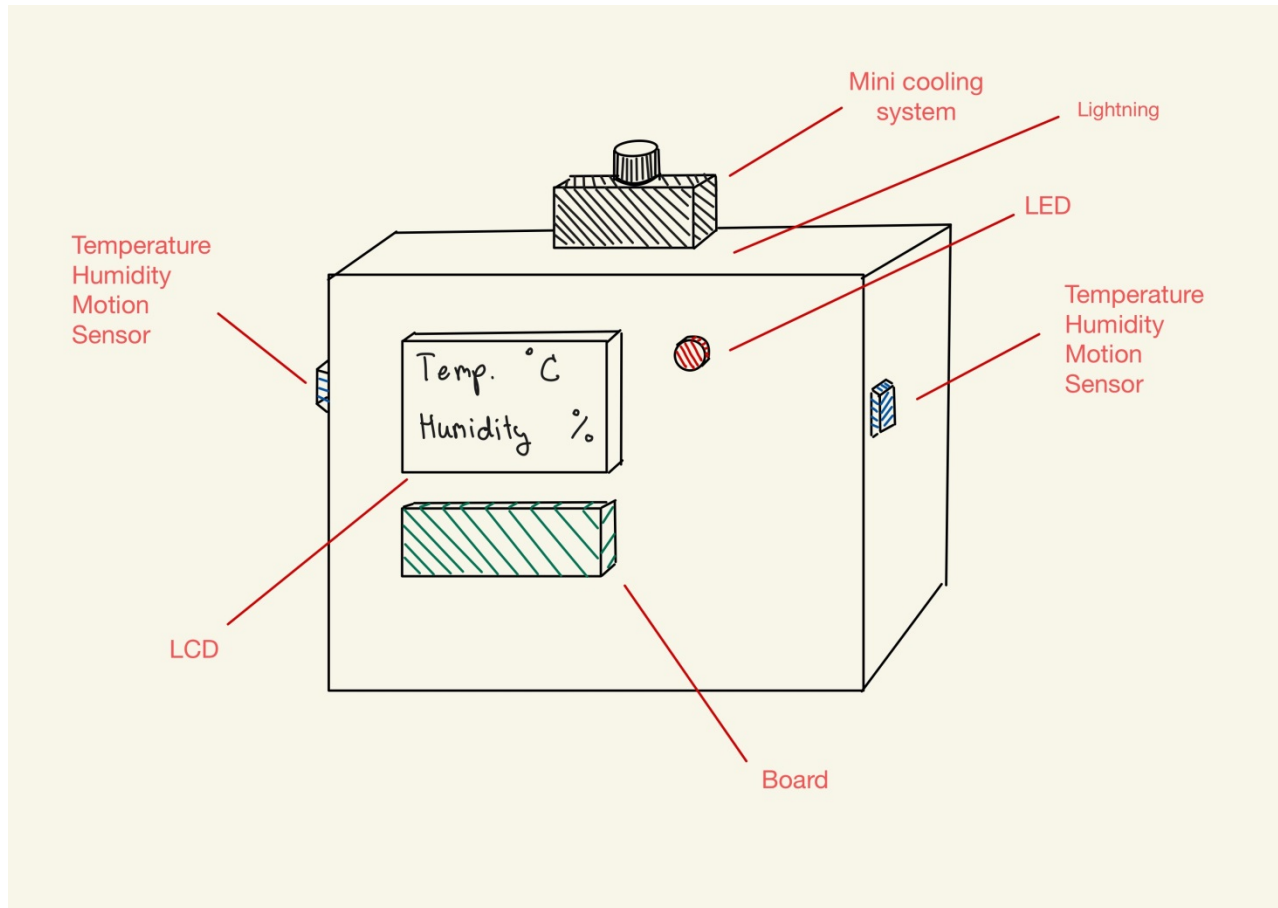


IoT In-home Display Development Project applied to energy Management

Smart Room

A series of horizontal lines in teal and light blue colors, with varying lengths and offsets, creating a modern, layered effect across the width of the slide.

Conceptual Design



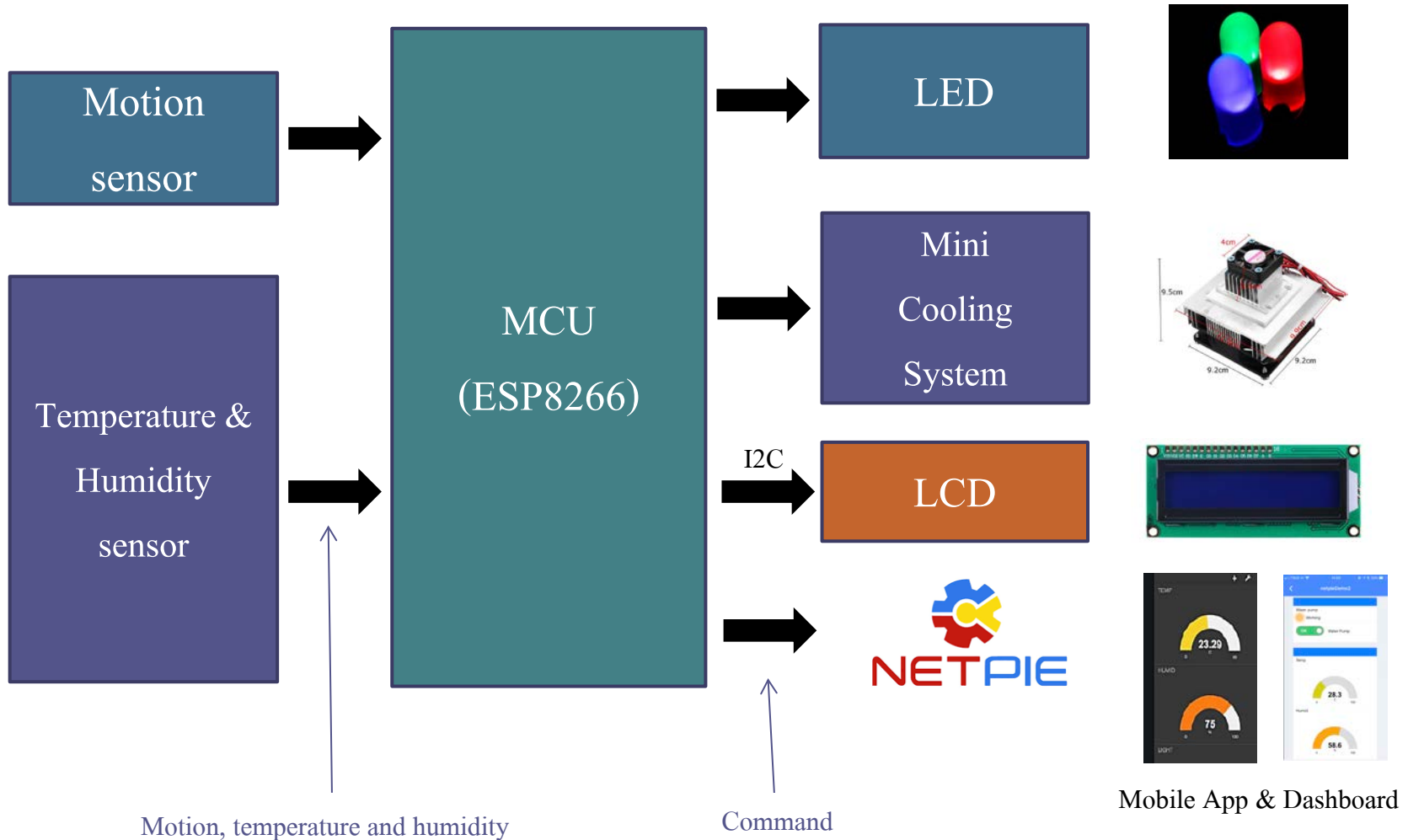
Features

- Real-time measurements & LCD display
 - Temperature in degree celcius
 - Humidity in percentage
- Mini-Cooling system
 - Control temperature automatically
 - Notification and auto turn off with motion sensor
- Lighting control
- Smart plug control
 - Motion sensor control
- WiFi connection to controlling and monitoring

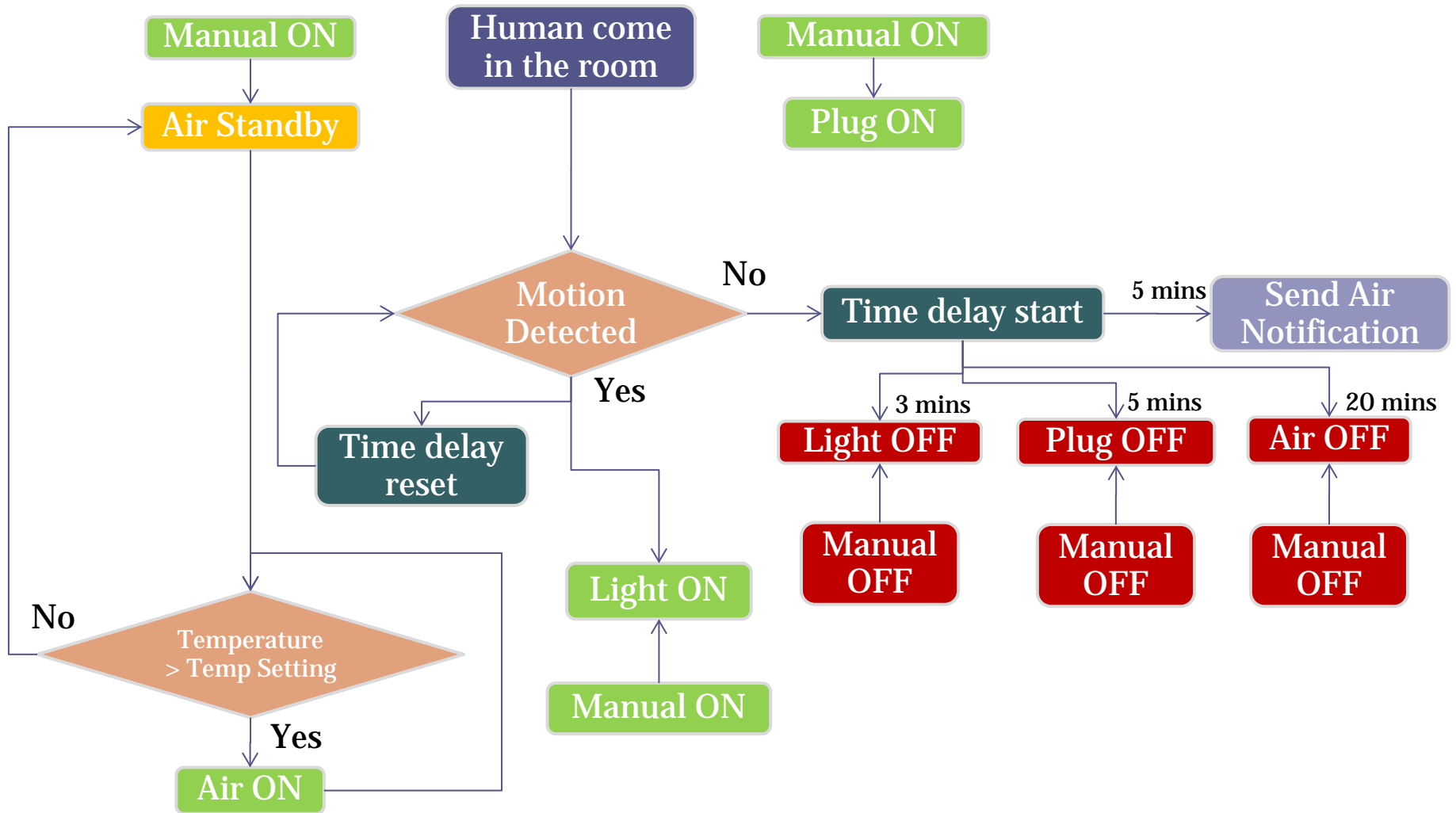
System components

1. The box (imitate room)
2. Sensor
 - Motion sensor
 - Temperature sensor
 - Humidity sensor
3. Arduino ESP8266
4. LED
5. Mini cooling system
6. LCD
7. Smartphone

Hardware connection



Lighting/ Air conditioner/ Smart plug



Project Timeline

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Prepare equipment								
Design & Software Programing & Testing								
-Lighting								
-Air Conditioner								
-Smart plug								
-Netpie								
Hardware implementation								
-Lighting								
-Air Conditioner								
-Smart plug								
Record & Presentation								

Work distribution

- **Lighting & Smart Plug system**
 - Design & software programing
- **Air conditioner system**
 - Design & software programing
- **Hardware implement & Netpie**
 - Design layout
 - Install hardware
 - Design and build Netpie