IOT

Temp | FAN
LDR
In/OUT | Push Button
Door | USER OLED

1. Temp + Fan
2. Ultr + Leds
3. push button
4. Eth + (Modes + full control) MQTT
5. Fing (OIED/ EPROM)
6. RFID + DOOR

Description:

1. Control Temp of the Room with two conditions:
   a. If temp less than 30 do nothing.
   b. From 30 to 40 Run **FAN**
   c. **Over** 40 RUN Alert.
2. Count number of people
   a. if number less than 3 , light 1 LED,
   b. From 3 to 10, light 2 led.
   c. Over 10 Light 3 led
3. Control unit Form Finger print and display state on OLED / save FP in EPROM
4. Can open closed Door using RFID.
5. Push button for Shutdown all the system
6. IOT Form Cloud System. (Door, Temp, FAN, people counter and LEDs)

Sensors Interface:

1. **Digital Temperature and Humidity Sensor DHT 22 (COMM PROTOCAL)/ temperature sensor (DIO)**
2. **Light Dependent Resistor (LDR) (ADC)**
3. **Push Button (Ex-interrupt)**
4. **IR Transmitter and Receiver(ADC) / Ultrasonic Sensor HC SR-04(Timer)/ PIR Motion Sensor (DIO)**
5. **Fingerprint sensor (UART) RFID Reader and Modules (SPI)**
6. **Gas Sensor MQ 135 / Buzzer module (ADC)**
7. **I2C/SPI OLED Display / 7 Segment Display**
8. **12V DC Geared Motor 550RPM (PWM)**
9. **Micro Servo Motor 9g (PWM)**
10. **ESP 8266 WiFi Development Board / ESP32 WIFI+ BLE Development Board**
    GSM 2G/GPRS Module / Ethernet Module (ENC28J60) (IOT Protocols)

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15			احمد رضا
16			انطونيس اسعد
17			يوسف حجازي
18			احمد فرج
19			براء احمد

G1	G2	G3	G4	
طوني	يوسف	احمد	براء	
مؤمن	عادل	محمد عبدالعزيز	اندرو	
اسلام	الحسيني	يوسف	ياسمين	
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