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#include <ESP8266WiFi.h>
#include "Adafruit_MQTT.h"
#include "Adafruit_MQTT_Client.h"

#define WIFI_SSID "Sarvagya2.4G"
#define WIFI_PASS ""

#define MQTT_SERV "io.adafruit.com"
#define MQTT_PORT 1883
#define MQTT_NAME ""
#define MQTT_PASS ""

int b1 = 2;
int b2 = 3;
int tv = 4;

WiFiClient client;
Adafruit_MQTT_Client mqtt(&client, MQTT_SERV, MQTT_PORT, MQTT_NAME,
MQTT_PASS);

Adafruit_MQTT_Subscribe BulbOne = Adafruit_MQTT_Subscribe(&mqtt,
MQTT_NAME "/f/BulbOne");
Adafruit_MQTT_Subscribe BulbTwo = Adafruit_MQTT_Subscribe(&mqtt,
MQTT_NAME "/f/BulbTwo");
Adafruit_MQTT_Subscribe TV = Adafruit_MQTT_Subscribe(&mqtt, MQTT_NAME
"/f/TV");

void setup()
{
  Serial.begin(9600);
  pinMode(LED_BUILTIN, OUTPUT);

  //Connect to WiFi
  Serial.print("\n\nConnecting Wifi>");
  WiFi.begin(WIFI_SSID, WIFI_PASS);
  digitalWrite(LED_BUILTIN, LOW);

  while (WiFi.status() != WL_CONNECTED)
  {
    Serial.print(">");
    delay(50);
  }

  Serial.println("OK!");

  //Subscribe to the onoff topic
  mqtt.subscribe(&onoff);

  pinMode(b1, OUTPUT);
  digitalWrite(LED_BUILTIN, HIGH);
  digitalWrite(b1, LOW);
  pinMode(b2, OUTPUT);
  digitalWrite(LED_BUILTIN, HIGH);

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digitalWrite(b2, LOW);
pinMode(tv, OUTPUT);
digitalWrite(LED_BUILTIN, HIGH);
digitalWrite(tv, LOW);

}

void loop()
{
    //Connect/Reconnect to MQTT
    MQTT_connect();

    Adafruit_MQTT_Subscribe * subscription;
    while ((subscription = mqtt.readSubscription(5000)))
    {
        //If we're in here, a subscription updated...
        if (subscription == &BulbOne)
        {
            if (!strcmp((char*) BulbOne.lastread, "ON"))
            {
                digitalWrite(b1, HIGH);
            }
            else if (!strcmp((char*) BulbOne.lastread, "OFF"))
            {
                digitalWrite(b1, LOW);
            }
        }
        else if (subscription == &BulbTwo)
        {
            if (!strcmp((char*) BulbTwo.lastread, "ON"))
            {
                digitalWrite(b2, HIGH);
            }
            else if (!strcmp((char*) BulbTwo.lastread, "OFF"))
            {
                digitalWrite(b2, LOW);
            }
        }
        else if (subscription == &TV)
        {
            if (!strcmp((char*) TV.lastread, "ON"))
            {
                digitalWrite(TV, HIGH);
            }
            else if (!strcmp((char*) TV.lastread, "OFF"))
            {
                digitalWrite(TV, LOW);
            }
        }
    }

    void MQTT_connect()
    {

        if (mqtt.connected() && mqtt.ping())

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{
    //      mqtt.disconnect();
    return;
}

int8_t ret;

mqtt.disconnect();

Serial.print("Connecting to MQTT... ");
uint8_t retries = 3;
while ((ret = mqtt.connect()) != 0)
{
    Serial.println(mqtt.connectErrorString(ret));
    Serial.println("Retrying MQTT connection in 5 seconds...");
    mqtt.disconnect();
    delay(5000); // wait 5 seconds
    retries--;
    if (retries == 0)
    {
        ESP.reset();
    }
}
Serial.println("MQTT Connected!");
}

```