#include <ESP8266WiFi.h>

const char\* ssid = "Utkarsh";

const char\* password = "12345678";

//int bulbstate = 0;

int ledPin = 13; // GPIO13

int tem=0;

int hu=0;

WiFiServer server(80);

int val=0;

String date;

int value1 = LOW, value2 = LOW, value3 = LOW, value4 = LOW;

void setup() {

Serial.begin(9600);

delay(10);

pinMode(ledPin, OUTPUT);

digitalWrite(ledPin, LOW);

// Connect to WiFi network

//Serial.println();

//Serial.println();

Serial.print("Connecting to ");

Serial.println(ssid);

WiFi.begin(ssid, password);

while (WiFi.status() != WL\_CONNECTED) {

delay(500);

Serial.print("...");

}

Serial.println("");

Serial.println("WiFi connected");

// Start the server

server.begin();

//Serial.println("Server started");

// Print the IP address

//Serial.print("Use this URL to connect: ");

Serial.print("http://");

Serial.print(WiFi.localIP());

//Serial.println("/");

// Serial.println("");

}

void loop() {

//if(Serial.available())

//{

// int local = Serial.read();

// if(val==0){ tem=local; /\*Serial.print("tem=");Serial.println(tem);\*/ val++;}

//else { hu=local;/\* Serial.print("humiditiy=");Serial.println(hu);\*/ val=0;}

// }

// Check if a client has connected

WiFiClient client = server.available();

if (!client) {

return;

}

// Wait until the client sends some data

// Serial.println("new client");

while (!client.available()) {

delay(1);

}

// Read the first line of the request

String request = client.readStringUntil('\r');

client.flush();

//date=getTime();

//delay(1000);

//Serial.println("");

//Serial.println("x"+date+"y");

// Match the request

if (request.indexOf("/LED=1ON") != -1) {

Serial.println('a');

value1 = HIGH;

}

if (request.indexOf("/LED=1OFF") != -1) {

Serial.println('A');

value1 = LOW;

}

if (request.indexOf("/LED=2ON") != -1) {

Serial.println('b');

value2 = HIGH;

}

if (request.indexOf("/LED=2OFF") != -1) {

Serial.println('B');

value2 = LOW;

}

if (request.indexOf("/FAN-Speed1") != -1) {

Serial.println('c');

value3 = HIGH;

}

if (request.indexOf("/FAN-Speed2") != -1) {

Serial.println('d');

value3 = HIGH;

}

if (request.indexOf("/FAN-Speed3") != -1) {

Serial.println('e');

value3 = HIGH;

}

if (request.indexOf("/FAN-OFF") != -1) {

Serial.println('C');

value3 = LOW;

}

/\*

if (request.indexOf("/LED=4ON") != -1 && bulbstate < 3) {

bulbstate++;

Serial.println(bulbstate);

}

if (request.indexOf("/LED=4OFF") != -1 && bulbstate > 0) {

bulbstate--;

Serial.println(bulbstate);

}

\*/

// Return the response

client.println("HTTP/1.1 200 OK");

client.println("Content-Type: text/html");

// client.println("Refresh: 15"); // refresh the page automatically every 5 sec

client.println();

client.println(""); // do not forget this one

client.println("<!DOCTYPE HTML>");

client.println("<html>");

client.println("<head>");

client.println("<title>Room Automation System</title>");

client.println("<style type='text/css'>");

client.println("body{");

client.println("margin: 0;background-color: yellow;}");

client.println("header{");

client.println("border:1px black solid;");

client.println("padding: 20px;}");

client.println("footer{");

client.println("height: 100px;");

client.println("border:1px black solid;}");

client.println("section{");

client.println("overflow: auto;}");

client.println("div{");

client.println("background-color: yellow;}");

client.println("#mainmenu2{}");

/\*border:1px solid green;\*/

client.println("#mainmenu2 li{");

client.println("display: inline;}");

client.println("#mainmenu li a{");

client.println("margin: 30px;");

client.println("padding: 10px 10px;");

client.println("text-decoration: none;}");

client.println("#mainmenu li a:hover{");

client.println("color: white;");

client.println("background-color: black;");

client.println("cursor: pointer;}");

client.println("#leftContentArea{float: left;}");

client.println("#rightContentArea{float: right; }");

client.println("</style>");

client.println("</head>");

client.println("<body>");

client.println("<div>");

client.println("<header>");

client.println(" <table border='0' width='100%'>");

client.println(" <tr>");

//client.println("<td><img src='nw.jpg' height='50'></td>");

client.println("<td> <h1>Room Automation System</h1></td>");

client.println("</tr><td><h2>Controls</h2></td>");

client.println("</table>");

client.println(" <ul id='mainmenu2'>");

client.println("<li><a href=\"/LED=1ON\"\"><button>LED On </button></a></li>");

client.println(" <li><a href=\"/LED=1OFF\"\"><button>LED Off </button></a><br /></li>");

client.println("<li><a href=\"/LED=2ON\"\"><button>LDRLed On</button></a></li>");

client.println("<li><a href=\"/LED=2OFF\"\"><button>LDRLed Off </button></a><br /></li>");

client.println("<li><a href=\"/FAN-Speed1\"\"><button>Fan On</button></a></li>");

client.println("<li><a href=\"/FAN-Speed2\"\"><button>Fan+</button></a></li>");

client.println("<li><a href=\"/FAN-Speed3\"\"><button>Fan++ </button></a></li>");

client.println("<li><a href=\"/FAN-OFF\"\"><button>Fan Off </button></a><br /></li>");

client.println(" </ul> ");

client.println("</header>");

client.println(" <section>");

client.println("<div id='leftContentArea'>");

client.println("<h2>Activities</h2>");

client.println("<h3>Now:</h3>");

if (value1 == HIGH) client.println("1 On ");

else client.print("1 Off ");

if (value2 == HIGH) client.println("2 On ");

else client.print("2 Off ");

if (value3 == HIGH) client.println("3 On ");

else client.print("3 Off ");

client.println("</div>");

client.println("<div id='rightContentArea'>");

// client.println("<img src='images.jpg'>");

client.println("</div>");

client.println("</section>");

// client.println("<footer>");

// client.println(" footer part");

//client.println("</footer>");

client.println("</div>");

client.println("</body>");

client.println("</html>");

delay(1);

}