#include <ESP8266WiFi.h>

const char\* ssid = "WiFi Name (SSID)";

const char\* password = "WiFi Password";

int LED = 16; // led connected to D0

WiFiServer server(80);

void setup()

{

Serial.begin(115200);

pinMode(LED, OUTPUT);

digitalWrite(LED, LOW);

Serial.print("Connecting to the Newtork");

WiFi.begin(ssid, password);

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

{

delay(500);

Serial.print(".");

}

Serial.println("WiFi connected");

server.begin(); // Starts the Server

Serial.println("Server started");

Serial.print("IP Address of network: "); // Prints IP address on Serial Monitor

Serial.println(WiFi.localIP());

Serial.print("Copy and paste the following URL: https://");

Serial.print(WiFi.localIP());

Serial.println("/");

}

void loop()

{

WiFiClient client = server.available();

if (!client)

{

return;

}

Serial.println("Waiting for new client");

while(!client.available())

{

delay(1);

}

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

Serial.println(request);

client.flush();

int value = LOW;

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

{

digitalWrite(LED, HIGH); // Turn ON LED

value = HIGH;

}

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

{

digitalWrite(LED, LOW); // Turn OFF LED

value = LOW;

}

/\*------------------HTML Page Creation---------------------\*/

client.println("HTTP/1.1 200 OK"); // standalone web server with an ESP8266

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

client.println("");

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

client.println("<html>");

client.print("LED: ");

if(value == HIGH)

{

client.print("ON");

}

else

{

client.print("OFF");

}

client.println("<br><br>");

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

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

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

delay(1);

Serial.println("Client disonnected");

Serial.println("");

}