// Code voor het aansturen van een ESP8266-E12 via Wifi (schoolrouter Tesla IoT)

// Basis is te vinden op https://www.instructables.com/id/Esp8266-Esp12e-Webserver/#discuss

#include <ESP8266WiFi.h>

#include <WiFiClient.h>

#include <ESP8266WebServer.h>

#include <ESP8266mDNS.h>

MDNSResponder mdns;

ESP8266WebServer server(80);

String webPage;

const char\* ssid = "Tesla IoT"; //wifi name

const char\* password = "fsL6HgjN"; //wifi password

void setup() {

pinMode(16, OUTPUT); //led pin 16

webPage += "<h1>ESP8266 Web Server</h1><p>Uitgang D0 ";

webPage += "<a href=\"socket1On\"><button>aan</button></a>&nbsp;";

webPage += "<a href=\"socket1Off\"><button>uit</button></a></p>";

Serial.begin(74880);

delay(100);

Serial.println();

Serial.println();

Serial.print("Verbinding maken met ");

Serial.println(ssid);

WiFi.begin(ssid, password);

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

delay(500);

Serial.print(".");

}

Serial.println("");

Serial.println("WiFi aangesloten");

Serial.println("IP addres: ");

Serial.println(WiFi.localIP());

if (mdns.begin("esp8266", WiFi.localIP()))

Serial.println("MDNS responder gestart");

server.on("/", [](){

server.send(200, "text/html", webPage);

});

server.on("/socket1On", [](){

server.send(200, "text/html", webPage);

// Turn off LED

digitalWrite(16, HIGH);

delay(1000);

});

server.on("/socket1Off", [](){

server.send(200, "text/html", webPage);

//Turn on LED

digitalWrite(16, LOW);

delay(1000);

});

server.begin();

Serial.println("HTTP server gestart");

}

void loop() {

server.handleClient();

}