#include <ESP8266WebServerSecure.h>  
#include <ESP8266WebServerSecureAxTLS.h>  
#include <ESP8266WebServerSecureBearSSL.h>  
  
#include <BearSSLHelpers.h>  
#include <CertStoreBearSSL.h>  
#include <ESP8266WiFi.h>  
#include <ESP8266WiFiMulti.h>  
#include <ESP8266WiFiScan.h>  
#include <ESP8266WiFiSTA.h>  
#include <ESP8266WiFiType.h>  
#include <WiFiClient.h>  
#include <WiFiClientSecure.h>  
#include <WiFiClientSecureAxTLS.h>  
#include <WiFiClientSecureBearSSL.h>  
#include <WiFiServer.h>  
#include <WiFiServerSecure.h>  
#include <WiFiServerSecureAxTLS.h>  
#include <WiFiServerSecureBearSSL.h>  
#include <WiFiUdp.h>  
  
#include <ESP8266WiFi.h>  
#include <ESP8266WebServer.h>  
#include "DHT.h"  
  
// Uncomment one of the lines below for whatever DHT sensor type you're using!  
#define DHTTYPE DHT11 // DHT 11  
//#define DHTTYPE DHT21 // DHT 21 (AM2301)  
//#define DHTTYPE DHT22 // DHT 22 (AM2302), AM2321  
  
/\*Put your SSID & Password\*/  
const char\* ssid = "ASUS\_X00TD"; // Enter SSID here  
const char\* password = "anudeep1"; //Enter Password here  
  
ESP8266WebServer server(80);  
  
// DHT Sensor  
uint8\_t DHTPin =D4;   
   
// Initialize DHT sensor.  
DHT dht(DHTPin, DHTTYPE);   
  
float Temperature;  
float Humidity;  
int smokesensor=D2;  
bool Smoke;  
int vibration = D1;  
int vibrationstate = 0;  
String vibrationstatus;  
String gas\_sensor\_status;  
void setup() {  
 Serial.begin(115200);  
 delay(100);   
 pinMode(DHTPin, INPUT);  
 pinMode(smokesensor,INPUT);  
 pinMode(vibration, INPUT);  
Serial.println("start");  
 dht.begin();   
  
 Serial.println("Connecting to ");  
 Serial.println(ssid);  
  
 //connect to your local wi-fi network  
 WiFi.begin(ssid, password);  
  
 //check wi-fi is connected to wi-fi network  
 while (WiFi.status() != WL\_CONNECTED) {  
 delay(1000);  
 Serial.print(".");  
 }  
 Serial.println("");  
 Serial.println("WiFi connected..!");  
 Serial.print("Got IP: "); Serial.println(WiFi.localIP());  
  
 server.on("/", handle\_OnConnect);  
 server.onNotFound(handle\_NotFound);  
  
 server.begin();  
 Serial.println("HTTP server started");  
  
}  
void loop() {  
   
 server.handleClient();  
 Smoke = digitalRead(smokesensor);   
 if(Smoke==LOW){  
 gas\_sensor\_status="Leak";  
 }  
 if(Smoke==HIGH){  
 gas\_sensor\_status="Normal";  
 }  
 int vibrationvalue = digitalRead(vibration);  
if (vibrationvalue == LOW) {  
 // Serial.print("Vibration");   
 vibrationstatus="Enable";  
}else{  
 Serial.print("Vibration");   
 vibrationstatus="Disable";  
 }  
}  
  
void handle\_OnConnect() {  
  
 Temperature = dht.readTemperature(); // Gets the values of the temperature  
 Humidity = dht.readHumidity(); // Gets the values of the humidity   
 server.send(200, "text/html", SendHTML(Temperature,Humidity));   
  
}  
  
void handle\_NotFound(){  
 server.send(404, "text/plain", "Not found");  
}  
  
String SendHTML(float Temperaturestat,float Humiditystat){  
 String ptr = "<!DOCTYPE html> <html>\n";   
 ptr +="<head> <meta http-equiv=\"refresh\" content=\"4\">";  
 ptr +="<title>ESP8266 Weather Report</title>\n";  
 ptr +="<style>html { font-family: Helvetica; display: inline-block; margin: 0px auto; text-align: center;}\n";  
 ptr +="body{margin-top: 50px;} h1 {color: #444444;margin: 50px auto 30px;}\n";  
 ptr +="p {font-size: 24px;color: #444444;margin-bottom: 10px;}\n";  
 ptr +="</style>\n";  
 ptr +="</head>\n";  
 ptr +="<body>\n";  
 ptr +="<div id=\"webpage\">\n";  
 ptr +="<h1>ESP8266 NodeMCU Weather Report</h1>\n";   
 ptr +="<p>Temperature: ";  
 ptr +=(int)Temperaturestat;  
 ptr +="°C</p>";  
 ptr +="<p>Humidity: ";  
 ptr +=(int)Humiditystat;  
 ptr +="%</p>";  
 ptr+="<p>Gas:";  
 ptr+=gas\_sensor\_status;  
 ptr+="</p>";   
 ptr+="<p>Vibration:";  
 ptr+=vibrationstatus;  
 ptr+="</p>";   
 ptr +="</div>\n";  
 ptr +="</body>\n";  
 ptr +="</html>\n";  
 return ptr;