#include <ESP8266WiFi.h>

#include <DHT.h>

// Replace with your Wi-Fi credentials

const char\* ssid = "YourWiFiSSID";

const char\* password = "YourWiFiPassword";

// Replace with your WhatsApp email address (find it by sending an email to your WhatsApp number)

const char\* whatsappEmail = "yourwhatsappnumber@whatsapp.net";

// Replace with your SMTP server details

const char\* smtpServer = "smtp.yourprovider.com";

const int smtpPort = 587;

// Replace with your email credentials

const char\* emailFrom = "youremail@example.com";

const char\* emailPassword = "YourEmailPassword";

// DHT sensor setup

#define DHTPIN D3

#define DHTTYPE DHT11

DHT dht(DHTPIN, DHTTYPE);

void setup() {

Serial.begin(115200);

delay(100);

// Connect to Wi-Fi

WiFi.begin(ssid, password);

Serial.println("Connecting to Wi-Fi");

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

delay(1000);

Serial.print(".");

}

Serial.println("");

Serial.println("Wi-Fi connected");

// Initialize DHT sensor

dht.begin();

}

void loop() {

// Read temperature and humidity

float temperature = dht.readTemperature();

float humidity = dht.readHumidity();

// Check if any reading failed

if (isnan(temperature) || isnan(humidity)) {

Serial.println("Failed to read from DHT sensor");

return;

}

Serial.print("Temperature: ");

Serial.print(temperature);

Serial.println(" °C");

Serial.print("Humidity: ");

Serial.print(humidity);

Serial.println(" %");

// Check if temperature exceeds threshold

if (temperature > 30.0) { // Adjust threshold as needed

sendWhatsAppMessage("High temperature alert! Temperature is above 30°C.");

}

// Check if humidity exceeds threshold

if (humidity > 70.0) { // Adjust threshold as needed

sendWhatsAppMessage("High humidity alert! Humidity is above 70%.");

}

delay(5000); // Wait for 5 seconds before next reading

}

void sendWhatsAppMessage(String message) {

WiFiClientSecure client;

if (!client.connect(smtpServer, smtpPort)) {

Serial.println("Connection to SMTP server failed!");

return;

}

if (!client.verify(smtpServer, fingerprint)) {

Serial.println("SMTP server certificate verification failed!");

return;

}

// Base64 encoded email and password

String login = base64::encode(String(emailFrom) + ":" + String(emailPassword));

// Send EHLO command

client.println("EHLO example.com");

// Authentication

client.println("AUTH LOGIN");

client.println(login);

// Set email sender

client.println("MAIL FROM:<" + String(emailFrom) + ">");

// Set WhatsApp recipient

client.println("RCPT TO:<" + String(whatsappEmail) + ">");

// Email content

client.println("DATA");

client.println("Subject: WhatsApp Notification");

client.println("From: " + String(emailFrom));

client.println("To: " + String(whatsappEmail));

client.println(message);

client.println(".");

client.println("QUIT");

Serial.println("WhatsApp message sent!");

}