#include <WiFi.h>

#include "CTBot.h"

#include "DHT.h"

CTBot myBot;

String ssid = "Wokwi-GUEST";

String pass = "";

String token = "6560504125:AAGr5Yn79gXCHhrnfx-BwWY\_08FnxUu26lw";

const int id = 1275034045;

#define ledPin1 13

#define ledPin2 12

#define ledPin3 14

#define Balarm 26

#define pitch  262

#define DHTPIN 4

#define DHTTYPE DHT22

DHT dht(DHTPIN, DHTTYPE);

bool buzzerStatus = false;

bool buzzerAlarm = false;

void setup() {

**Serial**.begin(9600);

**Serial**.println("Starting TelegramBot...");

  myBot.wifiConnect(ssid, pass);

  myBot.setTelegramToken(token);

  if (myBot.testConnection()) {

**Serial**.println("Koneksi Bagus");

  } else {

**Serial**.println("Koneksi Jelek");

  }

  pinMode(ledPin1, OUTPUT);

  pinMode(ledPin2, OUTPUT);

  pinMode(ledPin3, OUTPUT);

  pinMode(Balarm, OUTPUT);

  myBot.sendMessage(id, "Bot Telegram Aktif");

**Serial**.println("Pesan Terkirim");

  dht.begin();

}

void loop() {

  TBMessage msg;

  float temperature = dht.readTemperature();

  if (temperature < 25) {

    digitalWrite(ledPin1, HIGH);

    digitalWrite(ledPin2, LOW);

    digitalWrite(ledPin3, LOW);

    myNoTone(Balarm);

    myBot.sendMessage(id, "Suhu Ruangan Kamar Anda Normal (" + String(temperature) + " °C) - LED 1 ON, Alarm dimatikan");

  } else if (temperature > 25 && temperature < 70) {

    digitalWrite(ledPin1, LOW);

    digitalWrite(ledPin2, HIGH);

    digitalWrite(ledPin3, LOW);

    myNoTone(Balarm);

    myBot.sendMessage(id, "Suhu Ruangan Kamar Anda Tinggi (" + String(temperature) + " °C) - LED 2 ON, Alarm dimatikan");

  } else if (temperature > 70) {

    digitalWrite(ledPin1, LOW);

    digitalWrite(ledPin2, LOW);

    digitalWrite(ledPin3, HIGH);

    myTone(Balarm);

    myBot.sendMessage(id, "Suhu Ruangan Kamar Anda Tidak Normal (" + String(temperature) + " °C) - LED 3 ON, Alarm diaktifkan");

  }

}

void myTone( int pin)

{

  ledcAttachPin(pin, 0);             // pin, channel

  ledcWriteNote(0, NOTE\_A, 4);    // channel, frequency, octave

}

void myNoTone( int pin)

{

  ledcDetachPin(pin);

}