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};

void setup() {

// put your setup code here, to run once:

//Serial.begin(9600);

pinMode(led,OUTPUT);///red->led output

pinMode(inbutt,INPUT);///esp on signal input ---> uno

pinMode(relay,OUTPUT);///blue light output

pinMode(tank,INPUT);///tank-->uno

pinMode(feedback,OUTPUT);///uno-->esp

digitalWrite(feedback,LOW);

}

void loop() {ts=0;

// put your main code here, to run repeatedly:

s=digitalRead(inbutt);

//Serial.println("WiFi On Signal Received");

if(s==HIGH)

{ //Serial.println("LED on");

//Serial.print("<---");

digitalWrite(led,HIGH);

delay(180);

//////

ts=0;

ts=digitalRead(tank);

if(ts==HIGH){

for(i=0;i<50;i++)

{delay(15);

if(digitalRead(tank)==HIGH)

{++count;

delay(60);}

delay(15);

if(digitalRead(tank)==LOW)

{++lcount;

delay(60);

//Serial.println("\n>>>>>>>>>>>>>>>>>");

//Serial.println(lcount);

//Serial.println("\n>>>>>>>>>>>>>>>>>");

}

delay(15);

if(lcount>=1)

{i=40;

//Serial.println("\*\*\*\*\*\*\*Fake\*\*\*\*\*\*\*\*\*");

count=60;

digitalWrite(feedback,LOW);

break;

}

//Serial.println("==>");

//Serial.print(i);

}

if(count>49&&lcount<1)

{

//Serial.println("-------Sound---------");

digitalWrite(feedback,HIGH);

delay(10);

digitalWrite(relay,HIGH);

delay(300);

startPlayback(sample,sizeof(sample));

digitalWrite(relay,LOW);

ts=0;

delay(10);

}

else{ digitalWrite(relay,LOW);

//Serial.println("System OFF");

digitalWrite(feedback,LOW);

}}

/////////////

}

if(digitalRead(tank)==LOW)

{digitalWrite(feedback,LOW);}

digitalWrite(led,LOW);

delay(200);

count=0;

lcount=0;

}

ESP CODE:

#include <ESP8266WiFi.h>

// Replace with your network credentials

const char\* ssid = "abcIOT";

const char\* password = "987654321";

// Set web server port number to 80

WiFiServer server(80);

// Variable to store the HTTP request

String header;

// Auxiliar variables to store the current output state

String sysState="OFF";

String tankState="WAIT";

// Assign output variables to GPIO pins

int sys = 2;

const int tankwire = 0;

const int checksys;

int check;

// Current time

unsigned long currentTime = millis();

// Previous time

unsigned long previousTime = 0;

// Define timeout time in milliseconds (example: 2000ms = 2s)

const long timeoutTime = 1000;

void setup() {

// Initialize the output variables as outputs

pinMode(sys, OUTPUT);

pinMode(tankwire, INPUT);

digitalWrite(sys, HIGH);

check=digitalRead(tankwire);

checksys=digitalRead(sys);

// Connect to Wi-Fi network with SSID and password

WiFi.mode(WIFI\_AP);

WiFi.softAP(ssid, password);

IPAddress IP=WiFi.softAPIP();

server.begin();

}

void loop(){

check=digitalRead(tankwire);

checksys=digitalRead(sys);

if(check==HIGH){tankState="FULL";}

else{tankState="WAIT";}

WiFiClient client = server.available(); // Listen for incoming clients

if (client) { // If a new client connects, // print a message out in the serial port

String currentLine = ""; // make a String to hold incoming data from the client

currentTime = millis();

previousTime = currentTime;

while (client.connected() && currentTime - previousTime <= timeoutTime) { // loop while the client's connected

currentTime = millis();

if (client.available()) { // if there's bytes to read from the client,

char c = client.read(); // read a byte, then // print it out the serial monitor

header += c;

if (c == '\n') { // if the byte is a newline character

// that's the end of the client HTTP request, so send a response:

if (currentLine.length() == 0) {

// HTTP headers always start with a response code (e.g. HTTP/1.1 200 OK)

client.println("HTTP/1.1 200 OK");

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

client.println("Connection: close");

client.println();

// turns the GPIOs on and off

if (header.indexOf("GET /2/ON") >= 0) {

sysState = "ON";

digitalWrite(sys, HIGH);

} else if (header.indexOf("GET /2/OFF") >= 0) {

sysState = "OFF";

digitalWrite(sys, LOW);

} else if (header.indexOf("GET /0/F") >= 0) {

tankState = "FULL";

digitalWrite(tankwire, HIGH);

} else if (header.indexOf("GET /0/W") >= 0) {

tankState = "WAIT";

digitalWrite(tankwire, LOW);

}

// Display the HTML web page

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

client.println("<head><meta http-equiv='refresh' content='2' name=\"viewport\" content=\"width=device-width, initial-scale=1\">");

client.println("<link rel=\"icon\" href=\"data:,\">");

// CSS to style the on/off buttons

// Feel free to change the background-color and font-size attributes to fit your preferences

client.println("<style>html { font-family: Helvetica; display: inline-block; margin: 0px auto; text-align: center;}");

client.println(".button { background-color: #195B6A; border: none; color: white; padding: 16px 40px;");

client.println("text-decoration: none; font-size: 30px; margin: 2px; cursor: pointer;}");

client.println(".button2 {background-color: #77878A;}</style></head>");

// Web Page Heading

client.println("<body><h1>Water Tank Server</h1>");

// Display current state, and ON/OFF buttons for GPIO 0

client.println("<p>System State " + sysState + "</p>");

// If the sysState is off, it displays the ON button

if (sysState=="OFF") {

client.println("<p><a href=\"/2/ON\"><button class=\"button\">ON</button></a></p>");

digitalWrite(sys,HIGH);

} else {

client.println("<p><a href=\"/2/OFF\"><button class=\"button button2\">OFF</button></a></p>");

digitalWrite(sys,LOW);

}

// Display current state, and ON/OFF buttons for GPIO 4

client.println("<p>Tank Status </p>");

// If the tankwireState is off, it displays the ON button

if (tankState=="ON") {

client.println("<p><button class=\"button\">FULL</button></a></p>");

} else {

client.println("<p><button class=\"button button2\">WAIT</button></a></p>");

}

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

// The HTTP response ends with another blank line

client.println();

// Break out of the while loop

break;

} else { // if you got a newline, then clear currentLine

currentLine = "";

}

} else if (c != '\r') { // if you got anything else but a carriage return character,

currentLine += c; // add it to the end of the currentLine

}

}

}

// Clear the header variable

header = "";

// Close the connection

client.stop();

}

}

Uno 23/12/2020

//22.12.2020

#include <PCM.h>

unsigned long currentTime = millis();

unsigned long previousTime = 0;

const long timeoutTime = 1000;

const int led=13;

const int inbutt=A3;

const int relay=A0;

const int feedback=A1;

const int tank=A5;

int ts=0;

int i;

int count=0;

int go=0;

const unsigned char sample[] PROGMEM={

126, 127, 128, 128, 128, 129, 128, 127, 127, 127, 128, 128, 127, 128, 128, 127, 128, 128, 128, 128, 127, 128, 128, 127, 127, 127, 127, 128, 128, 128, 127, 127, 127, 128, 128, 127, 127, 127, 126, 126, 127, 127, 128, 128, 128, 129, 128, 127, 127, 127, 127, 128, 128, 128, 128, 128, 128, 129, 127, 127, 126, 126, 128, 129, 129, 129, 128, 126, 127, 127, 126, 126, 127, 128, 129, 129, 130, 129, 126, 125, 126, 125, 126, 129, 129, 128, 128, 128, 126, 126, 127, 128, 127, 127, 128, 128, 127, 128, 128, 127, 127, 128, 127, 128, 128, 127, 127, 128, 127, 127, 128, 128, 127, 128, 128, 128, 126, 126, 127, 127, 127, 130, 130, 127, 127, 127, 124, 124, 127, 128, 129, 129, 129, 128, 127, 127, 128, 126, 125, 127, 128, 128, 130, 129, 128, 127, 126, 126, 128, 128, 127, 128, 128, 129, 129, 128, 127, 127, 126, 128, 129, 128, 128, 129, 129, 128, 127, 126, 127, 127, 127, 128, 129, 127, 126, 126, 128, 128, 128, 128, 127, 126, 127, 128, 127, 127, 127, 128, 128, 128, 128, 128, 127, 127, 128, 128, 128, 127, 126, 127, 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127, 138, 152, 162, 163, 151, 136, 129, 116, 100, 102, 87, 118, 135, 140, 167, 157, 160, 153, 108, 86, 84, 84, 111, 117, 150, 182, 182, 179, 138, 105, 94, 89, 92, 106, 121, 145, 151, 139, 129, 128, 133, 129, 129, 122, 129, 135, 127, 110, 102, 128, 144, 151, 147, 142, 137, 104, 75, 65, 68, 119, 163, 180, 204, 192, 175, 143, 91, 77, 70, 76, 111, 123, 138, 159, 159, 155, 142, 134, 138, 137, 119, 110, 104, 106, 121, 111, 123, 148, 158, 172, 152, 123, 112, 85, 62, 63, 87, 138, 181, 191, 194, 172, 158, 125, 76, 72, 73, 92, 111, 128, 137, 158, 164, 159, 148, 128, 133, 123, 125, 123, 114, 124, 131, 107, 122, 128, 133, 157, 142, 137, 116, 103, 92, 79, 96, 148, 168, 189, 188, 150, 134, 87, 64, 55, 76, 113, 147, 177, 175, 169, 152, 123, 94, 90, 101, 123, 134, 138, 136, 143, 134, 121, 144, 145, 160, 153, 122, 105, 71, 71, 81, 92, 138, 176, 206, 223, 184, 157, 119, 69, 56, 39, 69, 117, 150, 175, 182, 170, 152, 129, 98, 95, 97, 114, 132, 128, 129, 144, 132, 127, 125, 121, 147, 144, 141, 123, 98, 99, 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132, 121, 120, 124, 113, 121, 119, 103, 112, 119, 122, 125, 130, 148, 159, 170, 168, 141, 117, 89, 70, 76, 87, 95, 118, 153, 158, 153, 158, 143, 144, 159, 164, 159, 122, 89, 66, 55, 79, 105, 139, 177, 185, 182, 175, 159, 142, 119, 100, 93, 81, 71, 70, 103, 154, 163, 191, 204, 158, 143, 106, 92, 131, 115, 122, 116, 72, 75, 64, 83, 131, 166, 216, 208, 184, 162, 115, 94, 73, 76, 104, 122, 136, 122, 116, 126, 127, 140, 156, 175, 178, 162, 149, 116, 87, 91, 84, 86, 116, 135, 149, 146, 125, 158, 190, 162, 146, 137, 106, 82, 74, 83, 98, 114, 141, 141, 127, 127, 129, 145, 152, 148, 148, 139, 131, 126, 116, 96, 95, 118, 118, 122, 136, 143, 140, 131, 152, 128, 99, 113, 123, 180, 155, 117, 178, 125, 78, 81, 70, 128, 127, 139, 181, 150, 157, 130, 101, 126, 122, 145, 151, 126, 116, 90, 66, 74, 101, 122, 158, 192, 192, 182, 150, 123, 99, 76, 89, 91, 96, 118, 132, 139, 138, 151, 161, 160, 161, 146, 131, 115, 102, 99, 98, 108, 123, 133, 135, 137, 142, 143, 146, 145, 143, 127, 115, 111, 98, 110, 119, 117, 136, 150, 163, 160, 135, 113, 105, 126, 122, 109, 125, 125, 125, 122, 105, 111, 124, 132, 147, 163, 157, 130, 114, 105, 104, 115, 123, 134, 134, 128, 134, 134, 129, 126, 146, 174, 153, 132, 127, 98, 83, 82, 101, 130, 138, 155, 160, 151, 137, 117, 123, 120, 120, 136, 131, 123, 108, 98, 102, 103, 119, 140, 161, 173, 171, 158, 132, 123, 111, 91, 84, 82, 106, 130, 143, 154, 149, 154, 150, 138, 142, 130, 112, 105, 112, 118, 104, 111, 136, 143, 144, 144, 147, 150, 136, 132, 132, 113, 106, 100, 88, 104, 123, 136, 153, 160, 157, 149, 131, 109, 101, 108, 113, 122, 135, 141, 129, 119, 127, 123, 121, 135, 144, 144, 128, 117, 114, 103, 99, 114, 139, 144, 141, 151, 145, 130, 133, 136, 135, 129, 114, 109, 113, 108, 113, 134, 143, 145, 143, 135, 136, 131, 119, 121, 123, 125, 123, 112, 117, 124, 130, 145, 145, 142, 132, 116, 111, 99, 101, 115, 125, 141, 142, 141, 143, 139, 137, 132, 133, 133, 124, 115, 109, 119, 127, 127, 126, 131, 148, 143, 135, 136, 129, 127, 121, 114, 113, 111, 120, 130, 131, 134, 142, 140, 125, 123, 127, 126, 129, 131, 123, 111, 112, 110, 111, 129, 139, 154, 160, 145, 139, 128, 113, 105, 105, 118, 130, 132, 126, 125, 127, 130, 142, 150, 154, 147, 135, 125, 107, 95, 95, 104, 118, 124, 132, 140, 145, 152, 150, 146, 143, 129, 123, 110, 91, 97, 102, 112, 130, 138, 152, 151, 142, 141, 131, 126, 120, 119, 121, 112, 119, 125, 130, 133, 133, 143, 134, 125, 124, 111, 112, 112, 116, 134, 142, 148, 150, 144, 136, 125, 119, 115, 117, 121, 128, 129, 121, 122, 125, 128, 143, 141, 138, 139, 129, 125, 112, 108, 125, 129, 135, 132, 126, 128, 111, 103, 105, 112, 140, 159, 165, 160, 148, 132, 108, 94, 85, 90, 112, 127, 140, 144, 150, 157, 149, 143, 138, 135, 129, 115, 102, 95, 103, 112, 120, 141, 154, 166, 171, 155, 139, 126, 106, 92, 86, 89, 104, 120, 135, 144, 151, 158, 153, 141, 128, 120, 116, 105, 107, 111, 115, 126, 127, 127, 124, 129, 141, 142, 143, 143, 143, 136, 120, 113, 109, 115, 120, 120, 128, 127, 126, 125, 124, 132, 143, 156, 158, 146, 132, 117, 104, 92, 91, 102, 124, 147, 154, 154, 152, 142, 124, 111, 111, 114, 120, 125, 123, 120, 126, 129, 130, 142, 144, 147, 148, 133, 116, 98, 95, 100, 106, 125, 142, 159, 162, 153, 140, 123, 122, 112, 108, 117, 123, 135, 133, 134, 136, 129, 128, 123, 124, 124, 126, 133, 131, 135, 131, 122, 121, 120, 122, 125, 137, 135, 124, 119, 113, 108, 106, 119, 136, 150, 159, 151, 144, 124, 106, 102, 92, 101, 124, 141, 155, 154, 143, 134, 121, 105, 107, 116, 135, 153, 152, 150, 136, 118, 109, 102, 109, 127, 152, 155, 142, 131, 112, 103, 97, 108, 132, 149, 166, 158, 140, 125, 101, 93, 91, 108, 135, 158, 170, 154, 133, 117, 105, 92, 93, 113, 129, 150, 158, 157, 149, 128, 120, 108, 109, 126, 132, 145, 140, 128, 120, 106, 104, 108, 127, 142, 155, 171, 154, 134, 122, 105, 95, 96, 112, 130, 148, 154, 144, 136, 123, 104, 99, 112, 127, 145, 155, 151, 141, 114, 95, 94, 96, 115, 144, 170, 169, 156, 135, 102, 79, 69, 85, 114, 147, 175, 174, 167, 140, 120, 117, 101, 117, 132, 139, 144, 130, 119, 100, 101, 107, 118, 153, 162, 173, 169, 142, 118, 91, 84, 78, 97, 129, 150, 174, 164, 154, 135, 101, 90, 85, 102, 119, 138, 165, 164, 147, 121, 110, 102, 109, 131, 144, 164, 146, 134, 109, 82, 106, 93, 135, 162, 153, 195, 142, 124, 121, 83, 103, 90, 110, 137, 202, 179, 80, 209, 136, 0, 105, 78, 105, 129, 137, 224, 143, 138, 139, 83, 121, 85, 122, 174, 135, 146, 127, 94, 106, 102, 89, 138, 169, 159, 185, 133, 111, 157, 98, 70, 124, 137, 104, 118, 156, 162, 161, 133, 143, 142, 84, 82, 90, 112, 147, 159, 167, 154, 156, 110, 59, 91, 112, 132, 155, 171, 177, 148, 107, 72, 92, 103, 93, 142, 176, 170, 166, 138, 99, 114, 117, 70, 117, 163, 148, 168, 140, 133, 162, 113, 87, 99, 99, 127, 129, 130, 173, 159, 119, 106, 115, 134, 109, 137, 173, 152, 164, 114, 84, 107, 67, 74, 122, 176, 178, 160, 181, 132, 113, 102, 77, 114, 105, 120, 135, 127, 139, 118, 154, 152, 134, 159, 132, 139, 115, 87, 109, 95, 96, 89, 107, 142, 149, 176, 183, 199, 178, 116, 103, 86, 70, 68, 98, 131, 136, 166, 155, 139, 152, 133, 141, 140, 130, 137, 114, 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};

void setup() { // Serial.begin(9600);

pinMode(led,OUTPUT); ///red->led output

pinMode(inbutt,INPUT); ///esp on signal input ---> uno

pinMode(relay,OUTPUT); ///blue light output

pinMode(tank,INPUT); ///tank-->uno

pinMode(feedback,OUTPUT); ///uno-->esp

digitalWrite(feedback,LOW);}

void loop() {

if(digitalRead(inbutt)==HIGH)//1.

{

digitalWrite(led,HIGH); //led on if wifi signal is ON sys

delay(180);

digitalWrite(led,LOW);

delay(20);

if(digitalRead(tank)==HIGH)

{ digitalWrite(led,HIGH);

for(int i=1;i<=30;i++)

{digitalWrite(relay,HIGH);

ts=0;

delay(35);//15-85

ts=digitalRead(tank);

currentTime = millis();

previousTime = currentTime;

if((ts==HIGH)&&(currentTime - previousTime <= timeoutTime)){ currentTime = millis(); count++; digitalWrite(relay,LOW); delay(60);}//55-60

delay(20);

if(digitalRead(tank)==LOW){count=0;i=31;delay(1000);break;}

digitalWrite(relay,LOW);

// Serial.println(count);

}

}

if(count>=30)

{digitalWrite(feedback,HIGH);

digitalWrite(relay,HIGH);

delay(2200);//3300-1500

digitalWrite(feedback,HIGH);

startPlayback(sample,sizeof(sample));

digitalWrite(feedback,HIGH);

count=0;i=0;

//Serial.println("Sound");

delay(20);}

if(count<30)

{count=0;i=0;delay(50);digitalWrite(relay,LOW);ts=0;}

if(digitalRead(tank)==LOW){digitalWrite(feedback,LOW);}

}//wifi butt

else{ //1.

digitalWrite(feedback,LOW);

digitalWrite(led,LOW);

}

}