#include <LiquidCrystal.h>

LiquidCrystal lcd(6,7,5,4,3,2);

#include <SoftwareSerial.h>

SoftwareSerial mySerial(A4,A5);

#include <Wire.h>

#include "dht.h"

char res[130];

int relay = 9;

int buzzer = 13;

#define dht\_apin 8

dht DHT;

int tempc=0,humc=0,ldrc=0;

char moss[5]="No\_Rain\0";

char ldrs[8]="Light\0";

void serialFlush()

{

while(Serial.available() > 0)

{

char t = Serial.read();

}

}

void myserialFlush()

{

while(mySerial.available() > 0)

{

char t = mySerial.read();

}

}

char check(char\* ex,int timeout)

{

int i=0;

int j = 0,k=0;

while (1)

{

sl:

if(mySerial.available() > 0)

{

res[i] = mySerial.read();

if(res[i] == 0x0a || res[i]=='>' || i == 100)

{

i++;

res[i] = 0;break;

}

i++;

}

j++;

if(j == 30000)

{

k++;

// Serial.println("kk");

j = 0;

}

if(k > timeout)

{

//Serial.println("timeout");

return 1;

}

}//while 1

if(!strncmp(ex,res,strlen(ex)))

{

// Serial.println("ok..");

return 0;

}

else

{

// Serial.print("Wrong ");

// Serial.println(res);

i=0;

goto sl;

}

}

char buff[200],k=0;

void upload(unsigned int s1,unsigned int s2,unsigned int s3);

char readserver(void);

void clearserver(void);

const char\* ssid = "iotserver";

const char\* password = "iotserver123";

void beep()

{

digitalWrite(buzzer, LOW);delay(2000);digitalWrite(buzzer, HIGH);delay(500);

}

void setup()

{

char ret;

pinMode(buzzer,OUTPUT);

pinMode(relay,OUTPUT);

digitalWrite(buzzer,HIGH);

digitalWrite(relay,LOW);

Serial.begin(9600);

mySerial.begin(9600);

lcd.begin(16,2);

lcd.setCursor(0, 0);lcd.print("Nurse Automation");

delay(2500);

wifiinit();

delay(2500);

lcd.clear();

lcd.print("T:");//2-3-4,0

lcd.setCursor(8,0);

lcd.print("H:");//10,0

}

char bf3[50];

int g=0,f=0,count=0,lc=0;

int gk=0;

void loop()

{

char ctrl=0;

DHT.read11(dht\_apin);

tempc = DHT.temperature;

humc = DHT.humidity;

lcd.setCursor(2,0);convertl(tempc);

lcd.setCursor(10,0);convertl(humc);

if(tempc >= 35)

{

digitalWrite(relay, HIGH);

beep();

lcd.setCursor(14,1);lcd.print("U ");

upload(tempc,humc);

lcd.setCursor(14,1);lcd.print(" ");

}

else

{

digitalWrite(relay, LOW);

}

delay(1000);

count++;

lcd.setCursor(14,1);convertk(count);

if(count > 30)

{

count = 0;

lcd.setCursor(14,1);lcd.print("U ");

upload(tempc,humc);

lcd.setCursor(14,1);lcd.print(" ");

}

ctrl=0;

}

char bf2[70];

void upload(unsigned int s1,unsigned int s2)

{

delay(2000);

lcd.setCursor(14, 1);lcd.print("U");

myserialFlush();

mySerial.println("AT+CIPSTART=4,\"TCP\",\"projectsfactoryserver.in\",80");

//http://projectsfactoryserver.in/storedata.php?name=pf5&s1=25&s2=35

//sprintf(buff,"GET http://embeddedspot.top/iot/storedata.php?name=iot139&s1=%u&s2=%u&s3=%u\r\n\r\n",s1,s2);

delay(8000);

/\*

if(s1 == 1){sprintf(buff,"GET http://projectsfactoryserver.in/storedata.php?name=iot1&s1=ON\r\n\r\n");}

if(s1 == 2){sprintf(buff,"GET http://projectsfactoryserver.in/storedata.php?name=iot1&s1=OFF\r\n\r\n");}

if(s1 == 3){sprintf(buff,"GET http://projectsfactoryserver.in/storedata.php?name=iot1&s2=Wet\r\n\r\n");}

if(s1 == 4){sprintf(buff,"GET http://projectsfactoryserver.in/storedata.php?name=iot1&s2=Dry\r\n\r\n");}

\*/

memset(buff,0,strlen(buff));

sprintf(buff,"GET http://projectsfactoryserver.in/storedata.php?name=server126&s1=%u&s2=%u\r\n\r\n",s1,s2);

// buff = buff + moss + "\r\n\r\n";

// strcat(buff,s3);

myserialFlush();

sprintf(bf2,"AT+CIPSEND=4,%u",strlen(buff));

mySerial.println(bf2);

delay(5000);

myserialFlush();

mySerial.print(buff);

delay(2000);

mySerial.println("AT+CIPCLOSE");

lcd.setCursor(14, 1);lcd.print(" ");

}