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4IT Erasmus+Project, 2025-1-RO01-KA121-VET-000319082

Beneficiary: "Gheorghe Vranceanu" National College, Bacau

Sending organization: "Gheorghe Vranceanu" National College, Bacau

MOBILITY PORTFOLIO

Valencia, Spain

Mobility period 24.10.2025- 06.11.2025

Practice period: 25.10.2025-05.11.2025

RECEIVING COMPANY: COMPACSERVER S.L.

Practice tutor: Joel Gómez Padial

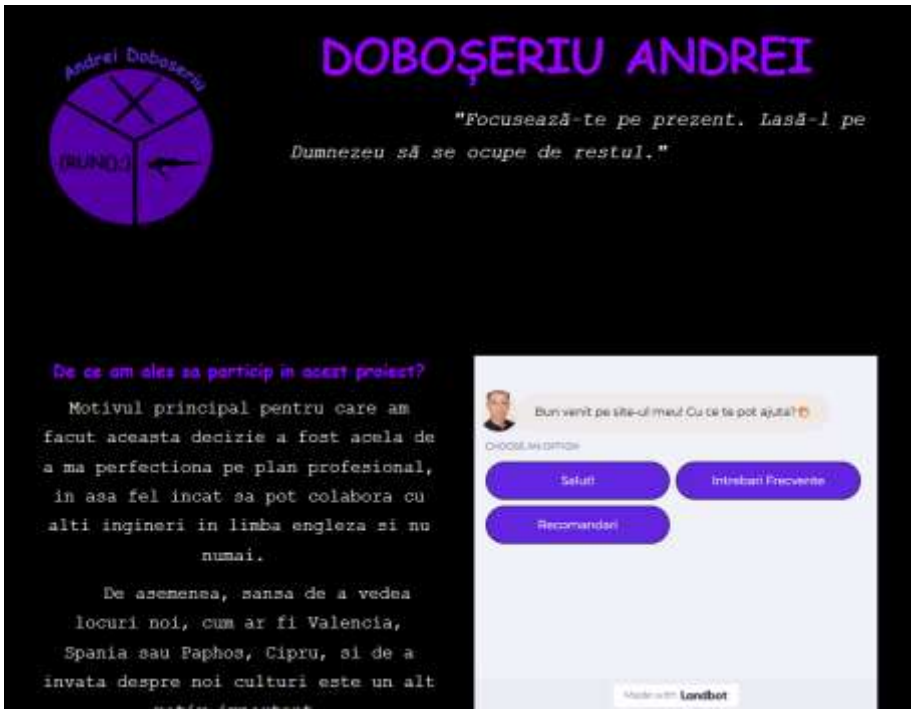
Participant: Doboșeriu Andrei

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Sectiunea 1
Site-ul meu





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Valencia – Prezentare generala





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Comportament sustenabil si protectia mediului





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Competențe Cheie Europene





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Diversitatea Culturală și Combaterea Discriminării





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Dezvoltare durabila si antreprenoriat: economia circulara





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Comportament sustenabil si protectia mediului: utilizarea resurselor regenerabile





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Valori europene, cetatenie activa si implicare democratica





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Sectiunea 2
Home Alarm System
Senzori de temperatura, umiditate, lumina si infrarosu

HomeStation.ino

```
#include<LiquidCrystal.h>
#include<SimpleDHT.h>
#define sensor 6
#define LDR A2
#define PIR 5
#define LED1 3
#define LED2 4
#define buzz 2
#define PIN1 8
#define PIN2 9
#define PIN3 10
#define PIN4 11
#define PIN5 12
#define PIN6 13
#define MinTemp 10
#define MaxTemp 35
#define MinHum 5
#define MaxHum 80
#define MinLight 15
#define MaxLight 90
LiquidCrystal lcd(PIN1,PIN2,PIN3,PIN4,PIN5,PIN6);
SimpleDHT11 DHT;
bool ExistAlarm;
bool AlarmfromTemp;
bool AlarmfromHum;
bool AlarmfromLight;
bool AlarmfromPresence;
void setup() {
 pinMode(PIN1, OUTPUT);
 pinMode(PIN2, OUTPUT);
 pinMode(PIN3, OUTPUT);
 pinMode(PIN4, OUTPUT);
 pinMode(PIN5, OUTPUT);
 pinMode(PIN6, OUTPUT);
pinMode(LED1, OUTPUT);
pinMode(LED2, OUTPUT);
pinMode(buzz, OUTPUT);
pinMode(PIR, INPUT);
pinMode(LDR, INPUT);
pinMode(sensor, INPUT);
lcd.begin(16,2);
}

void loop() {
  ExistAlarm = false;
  AlarmfromTemp = false;
  AlarmfromHum = false;
  AlarmfromLight = false;
  AlarmfromPresence = false;
```

HomeStation.ino

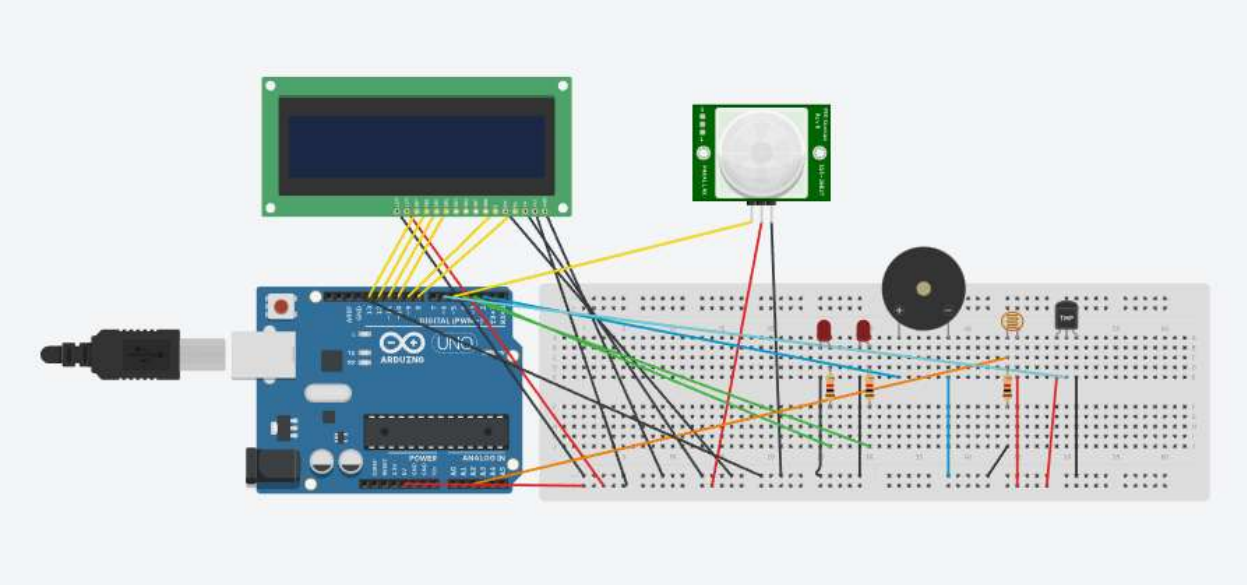
```
int Value = analogRead(LDR);
int ConValue = map(Value, 0 , 1023, 100, 0);
if(ConValue < MinLight || ConValue > MaxLight)
{
  AlarmfromLight = true;
  ExistAlarm = true;
}
byte temperature = 0;
byte humidity = 0;
byte data[40] = {0};
DHT.read(sensor, &temperature, &humidity, data);
if(temperature < MinTemp || temperature > MaxTemp)
{
  AlarmfromTemp = true;
  ExistAlarm = true;
}
if(humidity < MinHum || humidity > MaxHum)
{
  AlarmfromHum = true;
  ExistAlarm = true;
}
if(digitalRead(PIR)== HIGH)
{
  AlarmfromPresence = true;
  ExistAlarm = true;
}
if (ExistAlarm)
{
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("ALARM!!!!!!");
  lcd.setCursor(0,1);
  if(AlarmfromPresence)
  {
    lcd.print("P ");
  }
  if(AlarmfromTemp)
  {
    lcd.print("T ");
  }
  if(AlarmfromHum)
  {
    lcd.print("H ");
  }
  if(AlarmfromLight)
  {
    lcd.print("L ");
  }
  digitalWrite(buzz,HIGH);
  digitalWrite(LED1,HIGH);
```

```
  digitalWrite(LED2, HIGH);
  delay(1000);
}
else
{
  digitalWrite(buzz,LOW);
  digitalWrite(LED1,LOW);
  digitalWrite(LED2, LOW);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("Li: ");
  lcd.print(ConValue);
  lcd.print(" % ");
  lcd.print("H: ");
  lcd.print(humidity);
  lcd.print(" % ");
  lcd.setCursor(0,1);
  lcd.print("T: ");
  lcd.print(temperature);
  lcd.print(" oC ");
  lcd.print(" Ho P");
  delay(1000);
  }
}
```

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