2025-1-RO01-KA121-VET-000319082

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: Dinu Bogdan-Andrei

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Sectiunea 1:

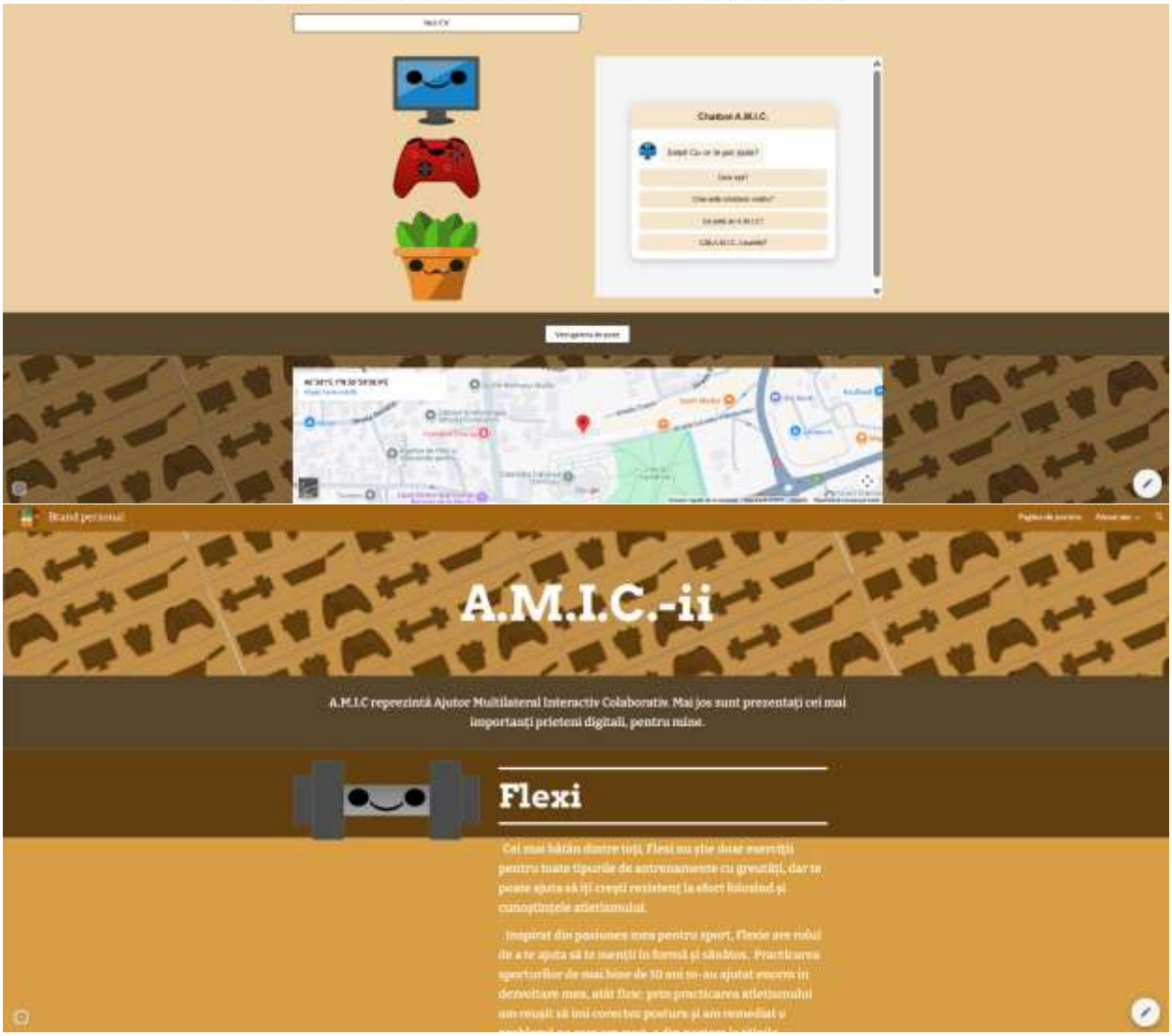


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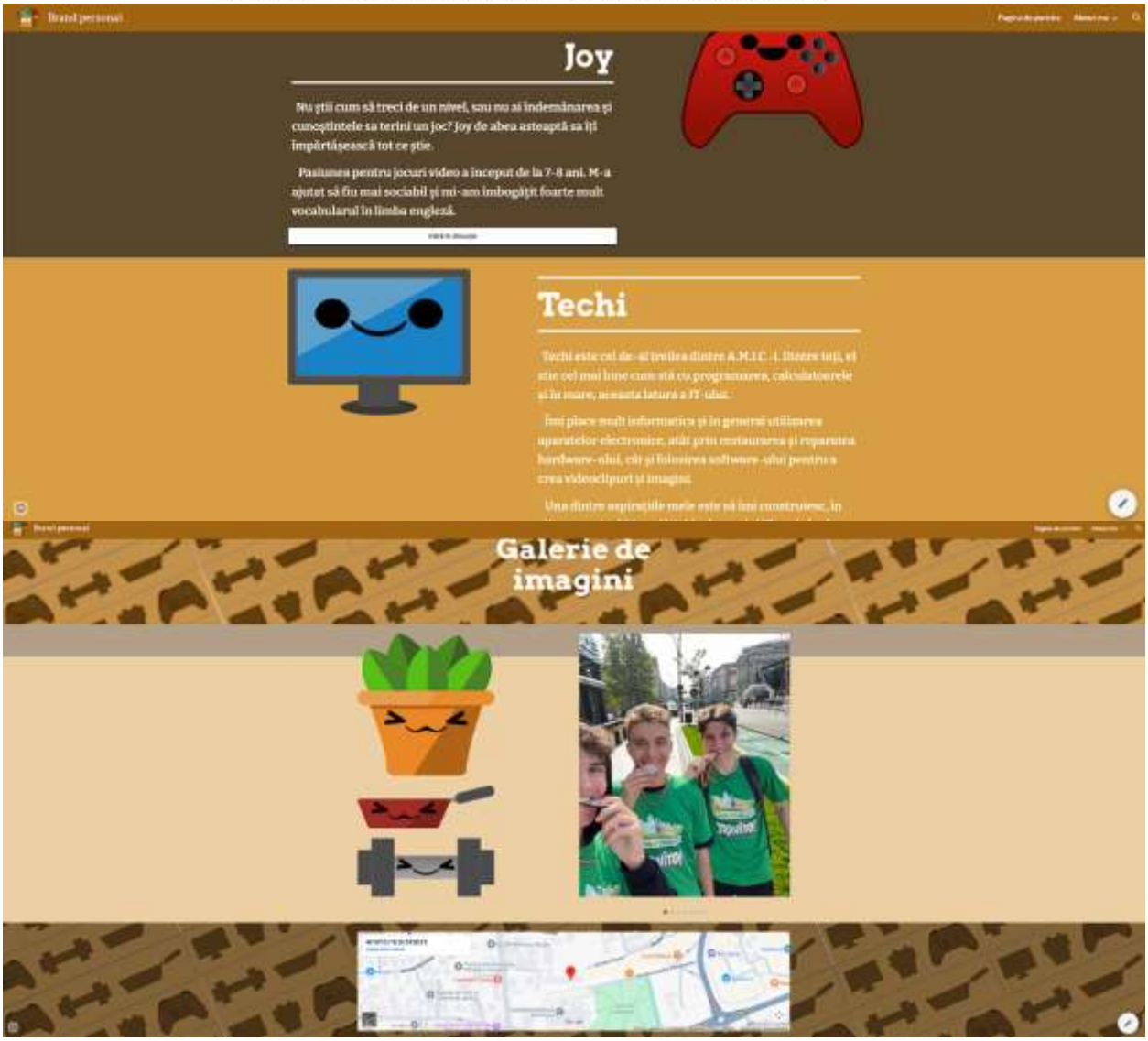


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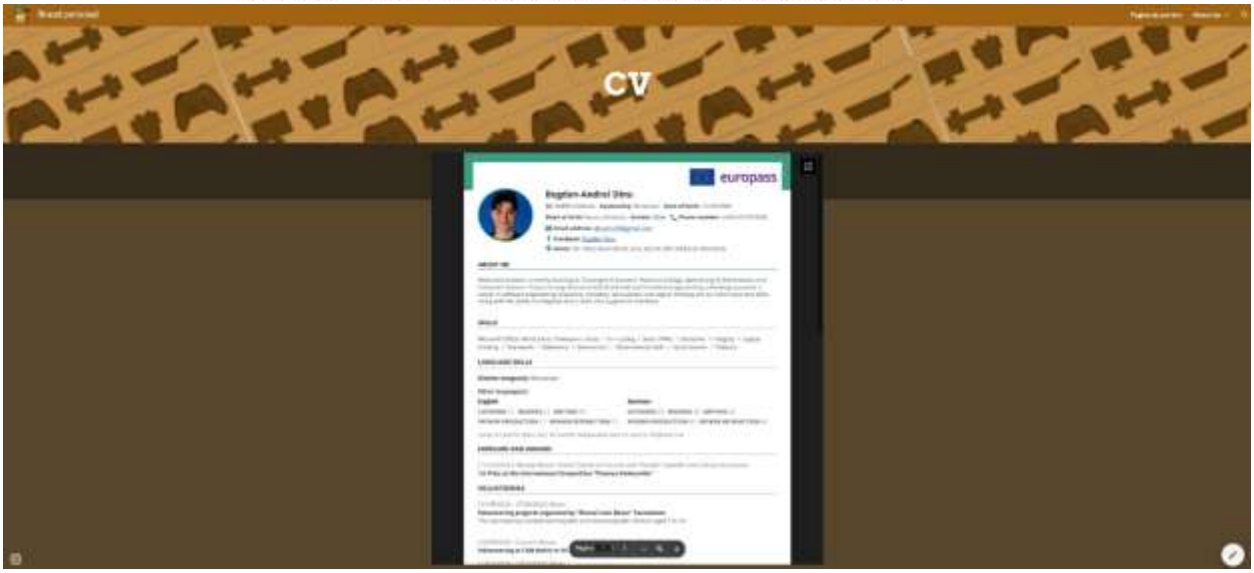
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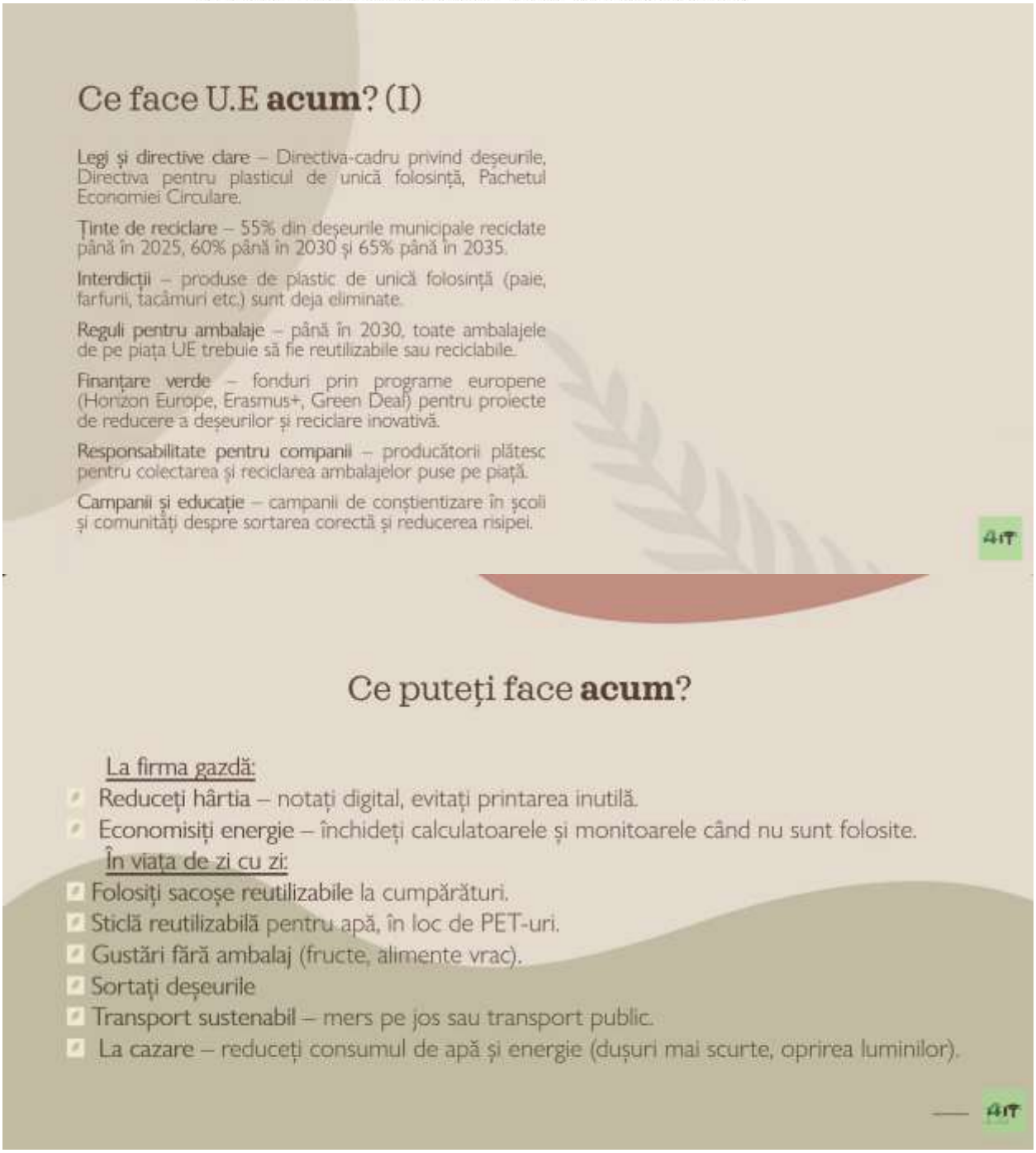


Pregătire culturală:

1)Comportament sustenabil și protecția mediului:

a) Reducerea deșeurilor:

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1b) utilizarea resurselor regenereabile:

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2)Competențe cheie Europene:

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3)Valencia - prezentare generală:

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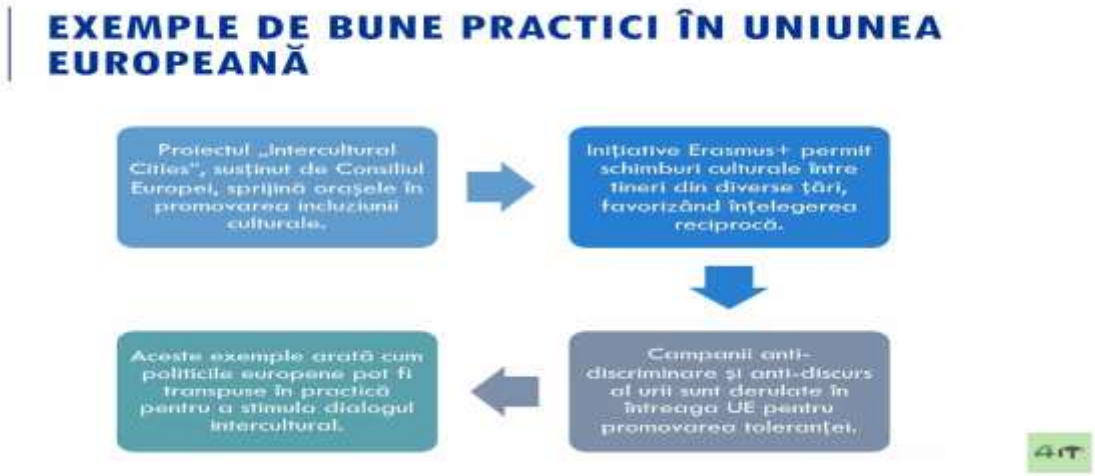




4)Diversitatea Culturală și Combaterea Discriminării:

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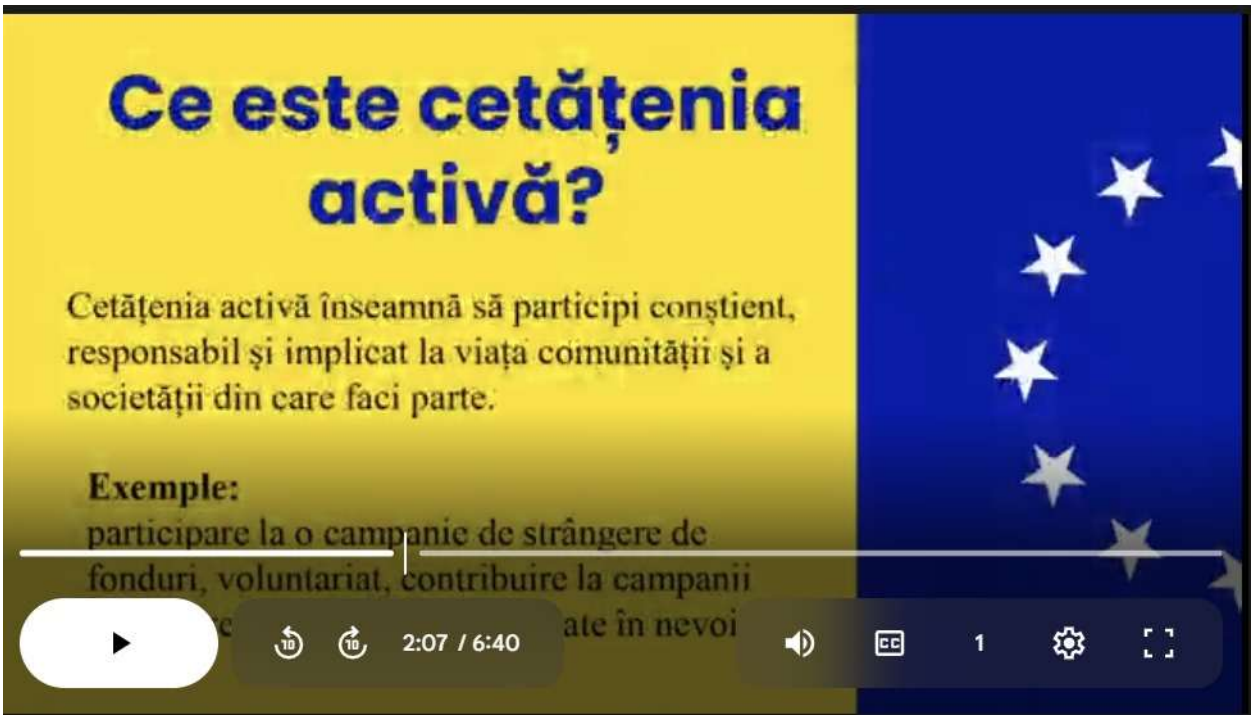


5)Valori europene, cetatenie activa si implicare democratica:

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6)Dezvoltare durabila si antreprenoriat: economia circulara:

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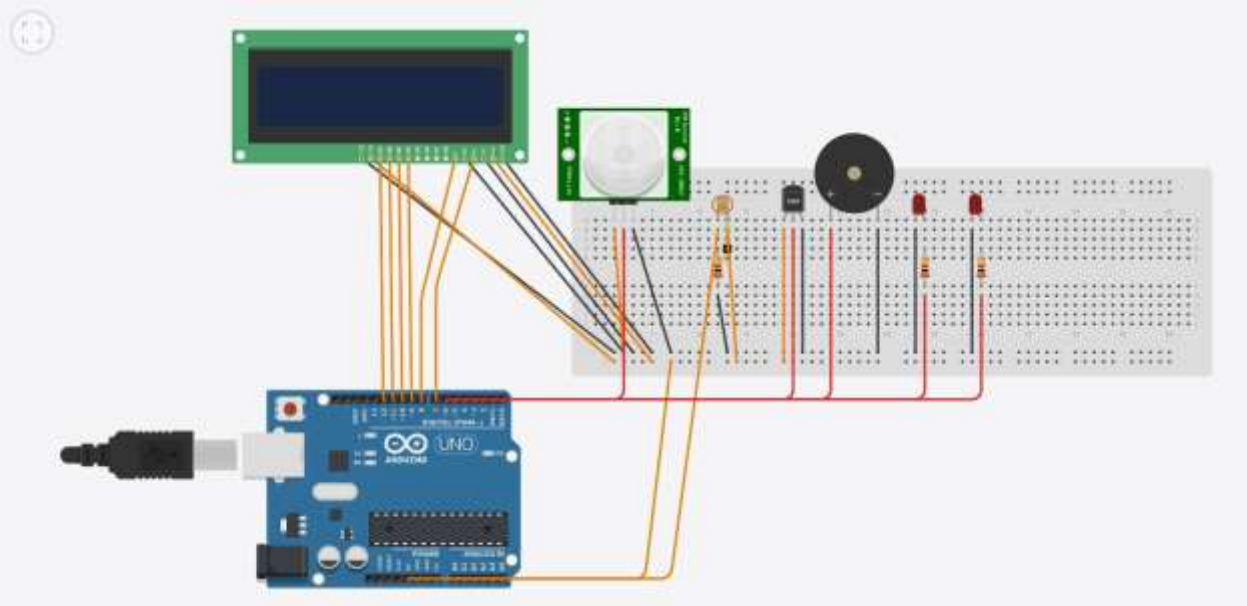
Sectiunea 2: Home station Controller

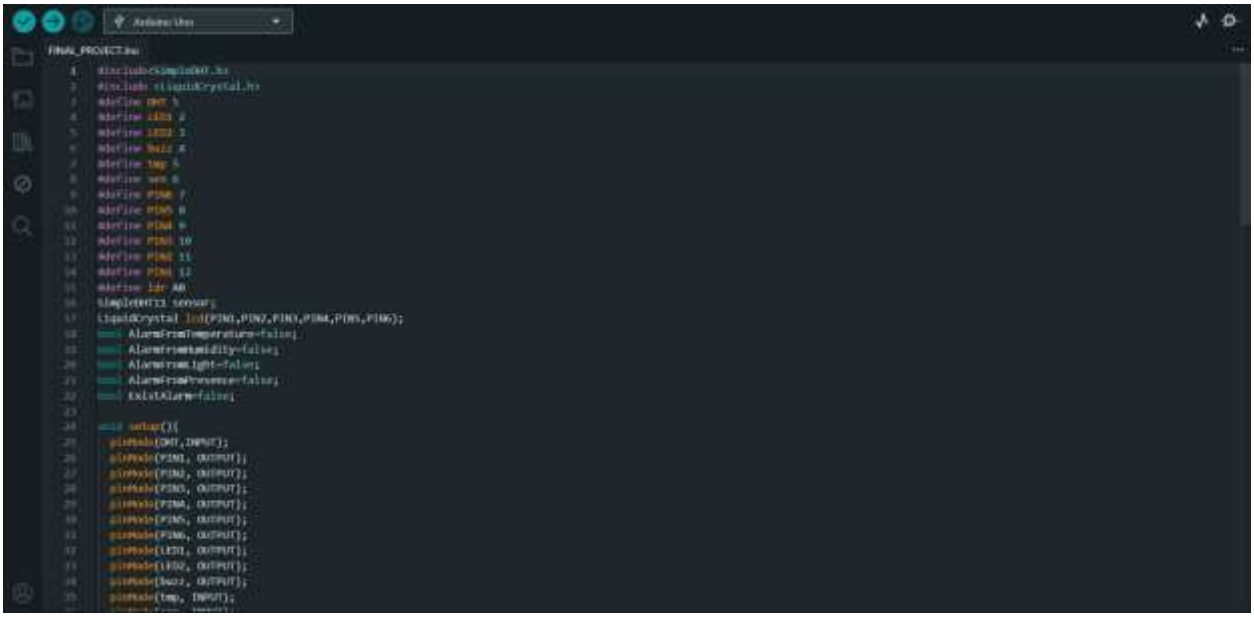
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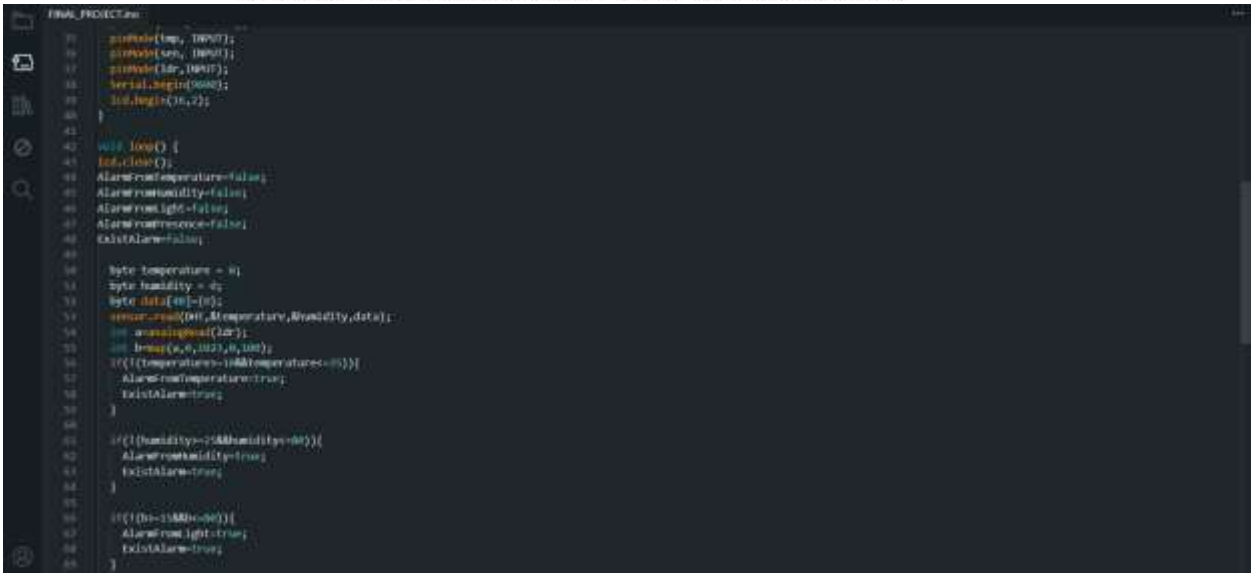




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```
  pinMode(tmp, INPUT);
  pinMode(sen, INPUT);
  pinMode(ldr,INPUT);
  Serial.begin(9600);
  lcd.begin(16,2);
}

void loop() {
lcd.clear();
AlarmFromTemperature=false;
AlarmFromHumidity=false;
AlarmFromLight=false;
AlarmFromPresence=false;
ExistAlarm=false;

  byte temperature = 0;
  byte humidity = 0;
  byte data[40]={0};
  sensor.read(DHT,&temperature,&humidity,data);
  int a=analogRead(ldr);
  int b=map(a,0,1023,0,100);
  if(!(temperature>-10&&temperature<=35)){
    AlarmFromTemperature=true;
    ExistAlarm=true;
  }

  if(!(humidity>=25&&humidity<=60)){
    AlarmFromHumidity=true;
    ExistAlarm=true;
  }

  if(!(b>=15&&b<=90)){
    AlarmFromLight=true;
    ExistAlarm=true;
  }
```



```
  }

  if(digitalRead(sen)==HIGH){
    AlarmFromPresence=true;
    ExistAlarm=true;
  }
  if(ExistAlarm){
    lcd.setCursor(0,0);
    lcd.print("ALARM!");
    lcd.setCursor(0,1);
    if(AlarmFromTemperature){
      lcd.print("T");
    }
    if(AlarmFromHumidity){
      lcd.print("H");
    }
    if(AlarmFromLight){
      lcd.print("L");
    }
    if(AlarmFromPresence){
      lcd.print("M");
    }
    digitalWrite(buz,HIGH);
    digitalWrite(LED1,HIGH);
    digitalWrite(LED2, HIGH);
    delay(1000);
  }
  else
  {
    digitalWrite(buz,LOW);
    digitalWrite(LED1,LOW);
    digitalWrite(LED2, LOW);
    lcd.clear();
    lcd.setCursor(0,0);
    lcd.print("L: ");
    lcd.print(b);
```

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```
      lcd.print("!");
    }
    if(AlarmFromPresence){
      lcd.print("P");
    }
    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("H: ");
    lcd.print(0);
    lcd.print(" % ");
    lcd.print("H: ");
    lcd.print(humidity);
    lcd.print(" % ");
    lcd.setCursor(0,1);
    lcd.print("T: ");
    lcd.print(temperature);
    lcd.print(" °C ");
    lcd.print(" Ho P");
    delay(1000);
  }
  }
```

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