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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:

Palade Andrei

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Sectiunea 1:

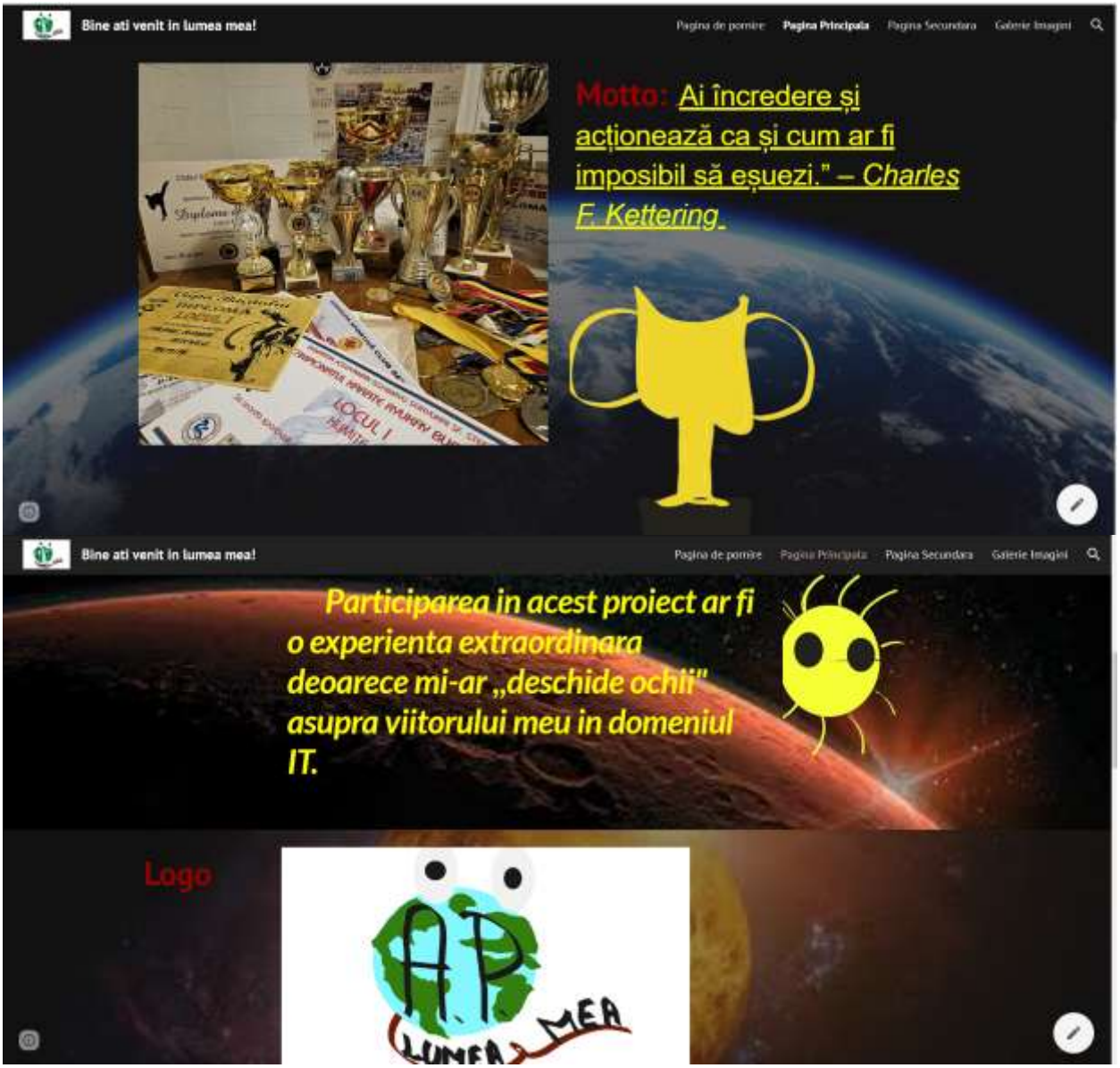


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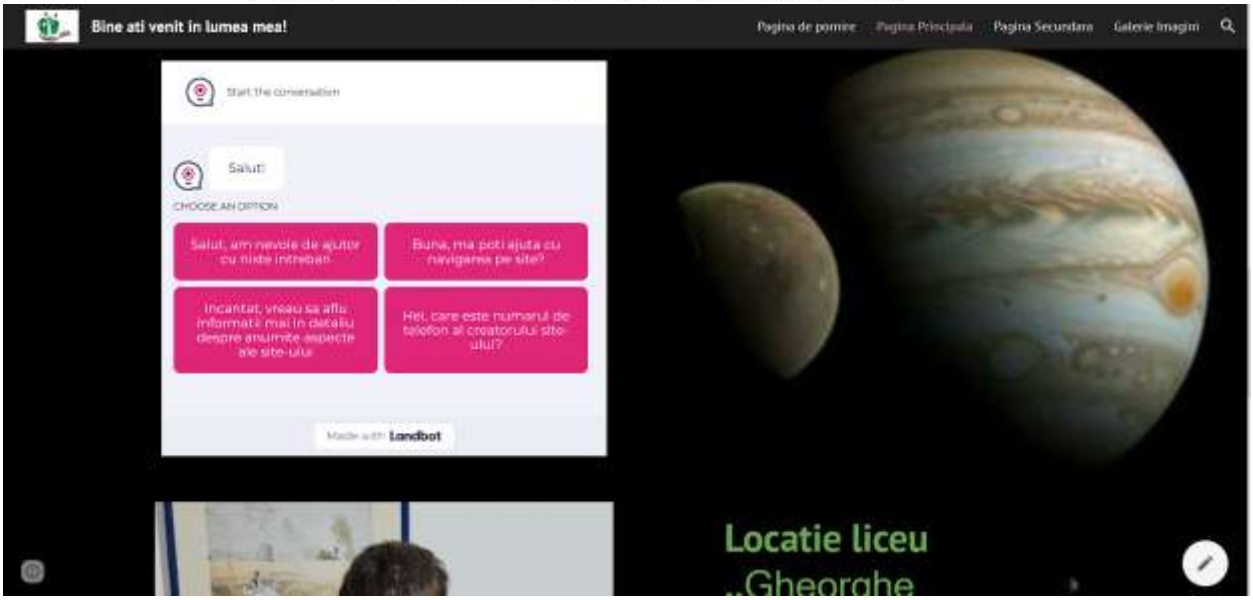


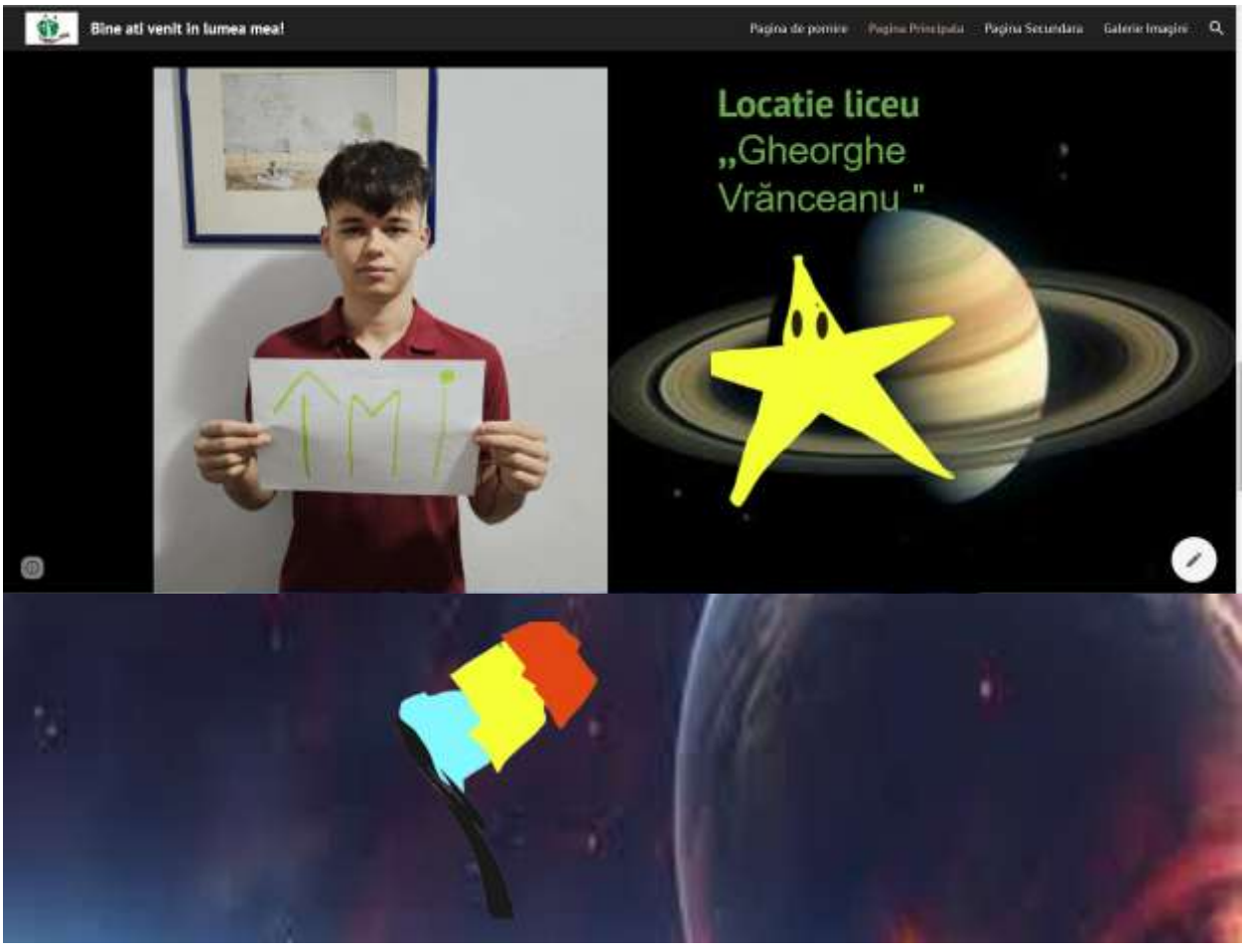
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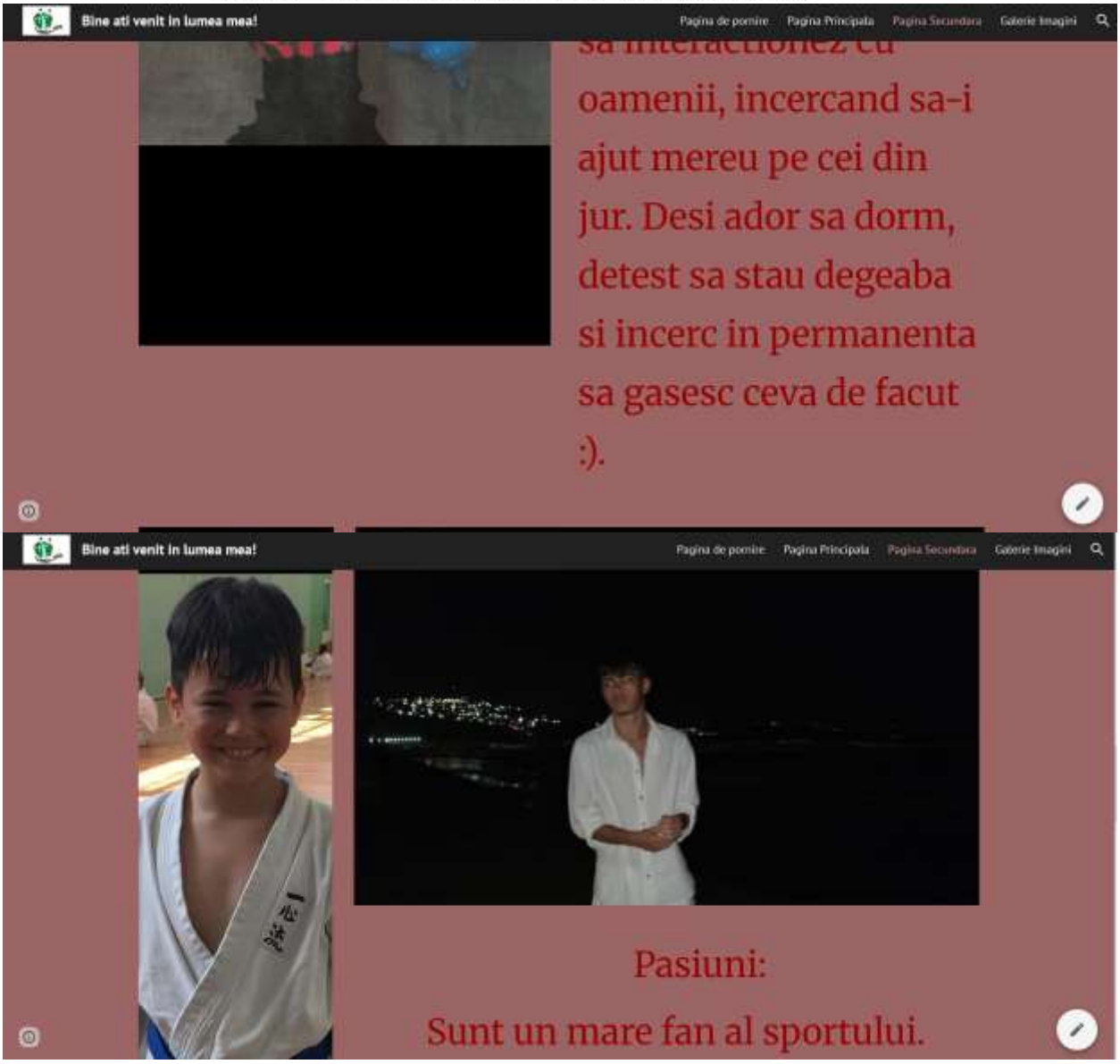


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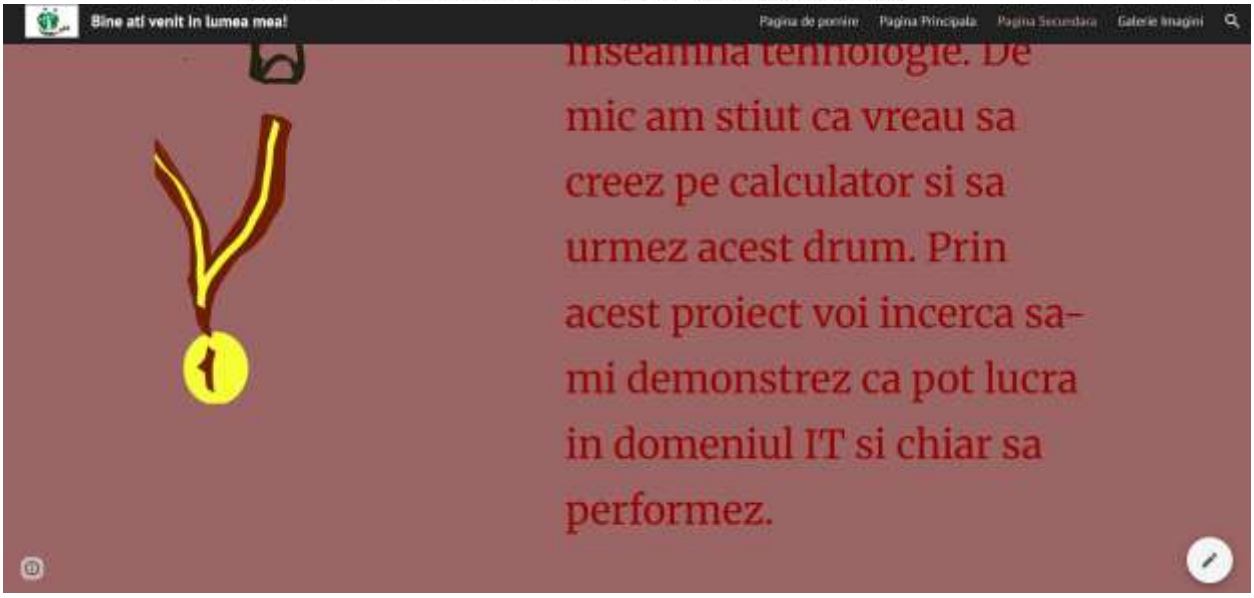
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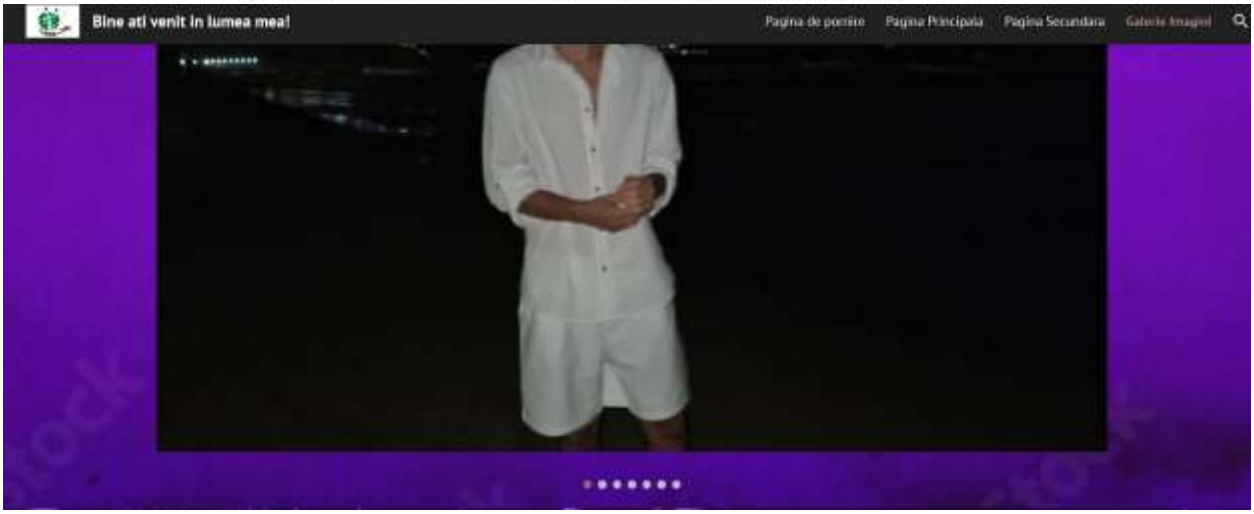
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Pregătire culturală:

1)Comportament sustenabil și protecția mediului:

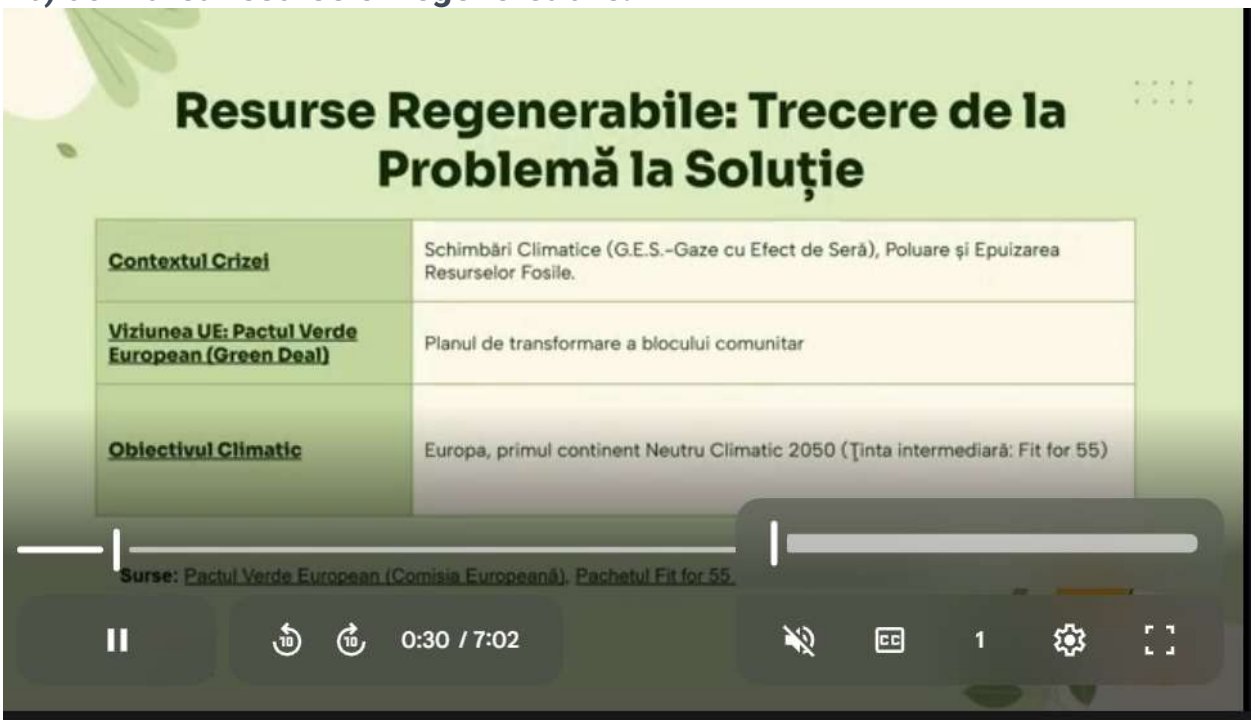
a) Reducerea deșeurilor:



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1b) utilizarea resurselor regenereabile:



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2)Diversitate culturală și combaterea discriminării:



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3)Competențe cheie Europene:

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4)Valencia - prezentare generală:

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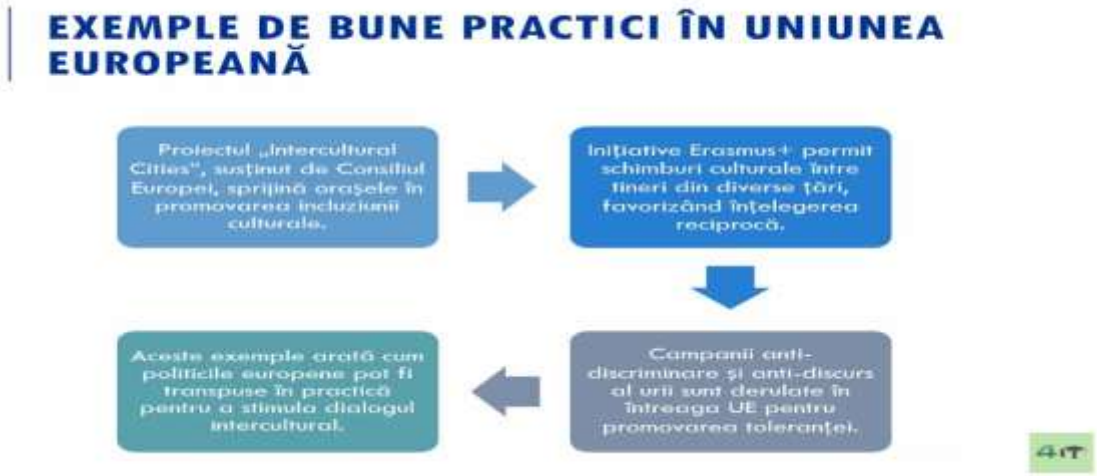
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5)Diversitatea Culturală și Combaterea Discriminării:

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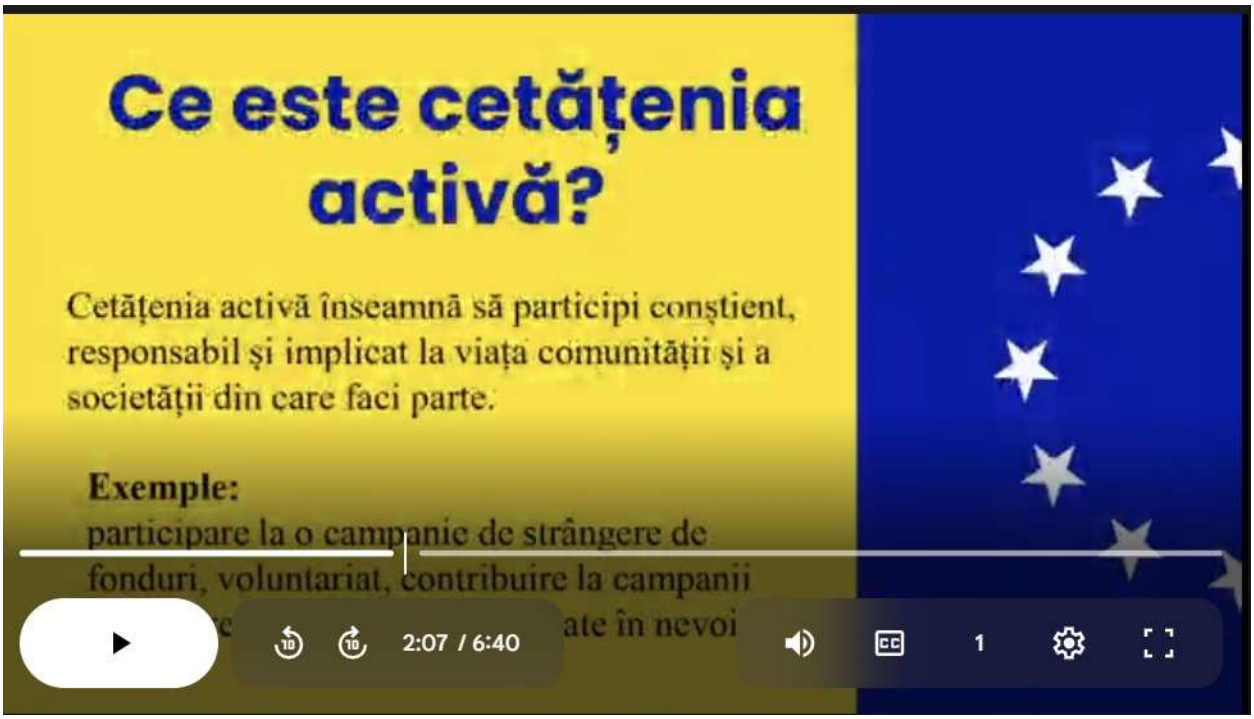


6)Valori europene, cetatenie activa si implicare democratica:

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7)Dezvoltare durabila si antreprenoriat: economia circulara:

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PROIECT-PILOT

EcoStart – Afacerea verde a elevilor



• Descriere generală:

- EcoStart este un proiect-pilot desfășurat în cadrul școlii, în care elevii sunt încurajați să:

1) Colecteze materiale reciclabile (plastic, hârtie, textile, doze, lemn etc.);

2) Redesign: Transformă aceste materiale în produse utile sau decorative, precum:
- decorațiuni eco;
- penare realizate din materiale textile reciclate;
- ghivece din PET-uri sau cutii metalice;
- suporturi de birou sau obiecte de organizare;

3) Vânzare la un târg școlar:
- Se organizează un EcoTârg în curtea școlii sau într-un spațiu comun;
- Elevii se ocupă de promovarea, amenajarea standurilor și vânzarea produselor;
- Se pot crea echipe cu roluri: producători, designeri, vânzători, comunicatori;

4) Reinvestirea profitului:
- Banii obținuți sunt folosiți pentru activități ecologice, cum ar fi:
- plantări de copaci și flori în curtea școlii sau în comunitate;
- campanii de conștientizare (afișe, pliante, clipuri video);
- acțiuni de ecologizare a parcurilor sau zonelor verzi.

• *Scopul proiectului:*
Promovarea antreprenoriatului responsabil, educației ecologice și creativității în rândul elevilor, prin valorificarea materialelor reciclabile în mod sustenabil.

Economia circulară - 4R

- Economia circulară este un model economic bazat pe ideea de reutilizare, reparație, refabricare și reciclare a materialelor și produselor existente. Obiectivul principal este de a reduce risipa și de a menține valoarea resurselor cât mai mult timp în economie.
- Spre deosebire de modelul liniar clasic (care presupune extragerea materiilor prime, fabricarea produselor, utilizarea lor și apoi eliminarea ca deșeuri), economia circulară imită sistemele naturale, în care nimic nu se pierde, ci totul este reintegrat în ciclul vieții.





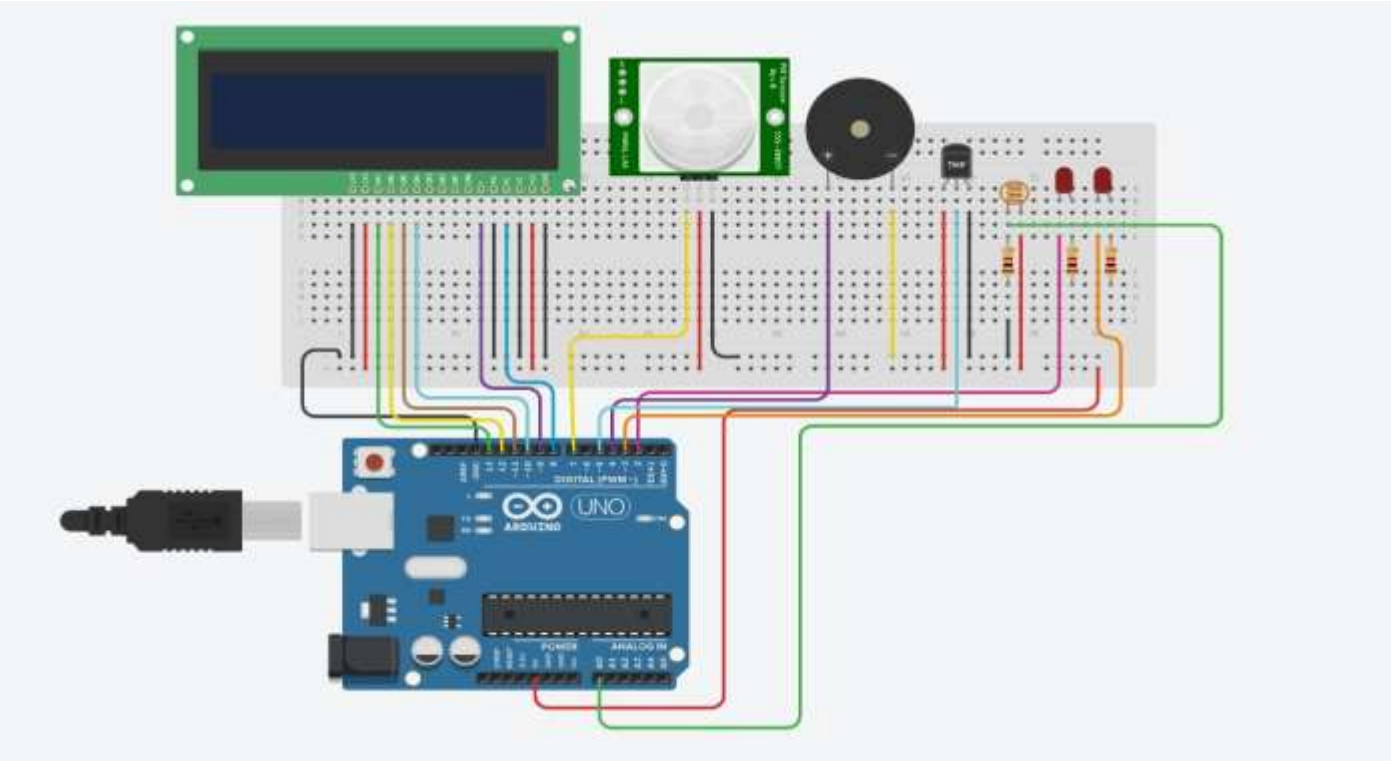




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Sectiunea 2:Home station Controle



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```
#include<LiquidCrystal.h>
#include<SimpleDHT.h>
#define sensor 2
#define LDR A0
#define PIR 3
#define LED1 7
#define LED2 6
#define buzz 5
#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);
```

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```
35  pinMode(LED1, OUTPUT);
36  pinMode(LED2, OUTPUT);
37  pinMode(buzz, OUTPUT);
38  pinMode(PIR, INPUT);
39  pinMode(LDR, INPUT);
40  pinMode(sensor, INPUT);
41  lcd.begin(16,2);
42  }
43
44  void loop() {
45    ExistAlarm = false;
46    AlarmfromTemp = false;
47    AlarmfromHum = false;
48    AlarmfromLight = false;
49    AlarmfromPresence = false;
50
51
52  int Value = analogRead(LDR);
53  int ConValue = map(Value, 0 , 1023, 100, 0);
54  if(ConValue < MinLight || ConValue > MaxLight)
55  {
56    AlarmfromLight = true;
57    ExistAlarm = true;
58  }
59
60  byte temperature = 0;
61  byte humidity = 0;
62  byte data[40] = {0};
63  DHT.read(sensor, &temperature, &humidity, data);
64  if(temperature < MinTemp || temperature > MaxTemp)
65  {
66    AlarmfromTemp = true;
67    ExistAlarm = true;
68  }
69  if(humidity < MinHum || humidity > MaxHum)
```

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```
69    if(humidity < MinHum || humidity > MaxHum)
70    {
71      AlarmfromHum = true;
72      ExistAlarm = true;
73    }
74
75    if(digitalRead(PIR)== HIGH)
76    {
77      AlarmfromPresence = true;
78      ExistAlarm = true;
79    }
80    if (ExistAlarm)
81    {
82      lcd.clear();
83      lcd.setCursor(0,0);
84      lcd.print("ALARM!!!!!!");
85      lcd.setCursor(0,1);
86      if(AlarmfromPresence)
87      {
88        lcd.print("P ");
89      }
90      if(AlarmfromTemp)
91      {
92        lcd.print("T ");
93      }
94      if(AlarmfromHum)
95      {
96        lcd.print("H ");
97      }
98      if(AlarmfromLight)
99      {
100       lcd.print("L ");
101     }
102     digitalWrite(buzz,HIGH);
103     digitalWrite(LED1,HIGH);
104     digitalWrite(LED2, HIGH);
```

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```
104     digitalWrite(LED2, HIGH);
105     delay(1000);
106   }
107   else
108   {
109       digitalWrite(buzz,LOW);
110     digitalWrite(LED1,LOW);
111     digitalWrite(LED2, LOW);
112     lcd.clear();
113     lcd.setCursor(0,0);
114     lcd.print("L: ");
115     lcd.print(ConValue);
116     lcd.print(" % ");
117     lcd.print("H: ");
118     lcd.print(humidity);
119     lcd.print(" % ");
120     lcd.setCursor(0,1);
121     lcd.print("T: ");
122     lcd.print(temperature);
123     lcd.print(" ºC ");
124     lcd.print(" No P");
125     delay(1000);
126     }
127   }
```

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