

2025-1-RO01-KA121-VET-000319082

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

Beneficiary: "Gheorghe Vranceanu" National College, Bacau

Sending organization: "Ferdinand I" National College, Bacau

MOBILITY PORTFOLIO

Paphos, Cyprus

Mobility period 28.10.2025- 10.11.2025

Practice period: 29.10.2025-08.11.2025

RECEIVING COMPANY: Lazarous ICT Professionals

Practice tutor: Lazaros Lazarou

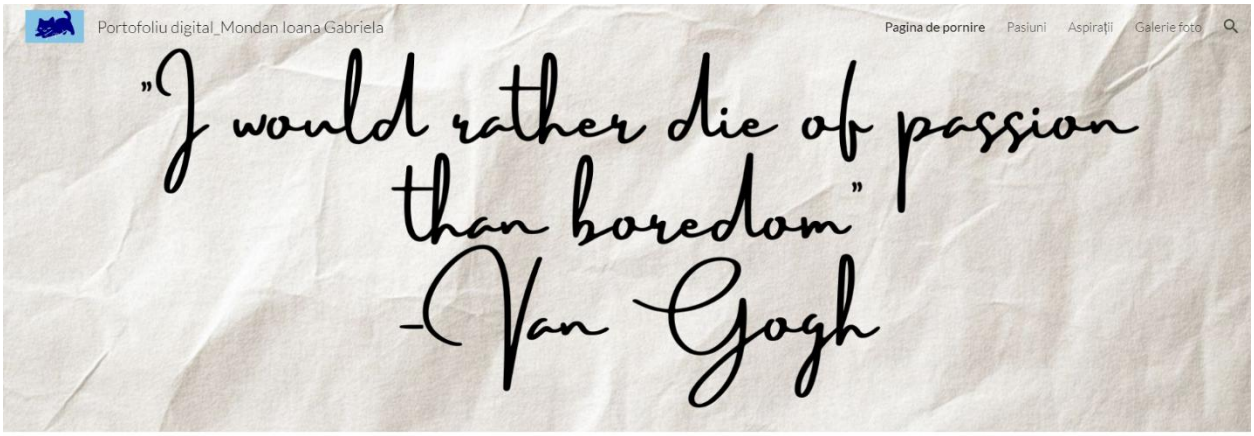
Participant: Mondan Ioana-Gabriela

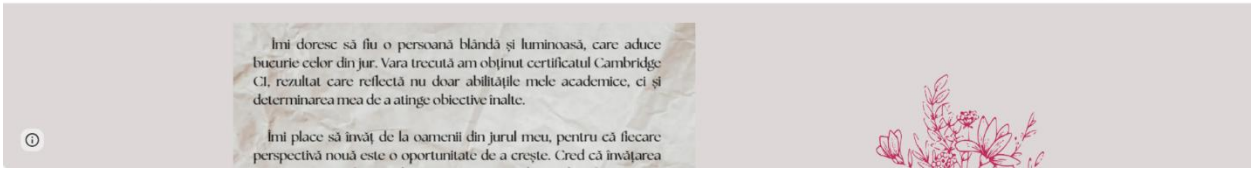
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Acesta este site-ul meu personal, unde mă prezint și vorbesc despre pasiunile, interesele și experiențele mele. L-am creat pentru a împărtăși o parte din ceea ce sunt și din ceea ce m-a inspirat pe parcursul proiectului Erasmus.



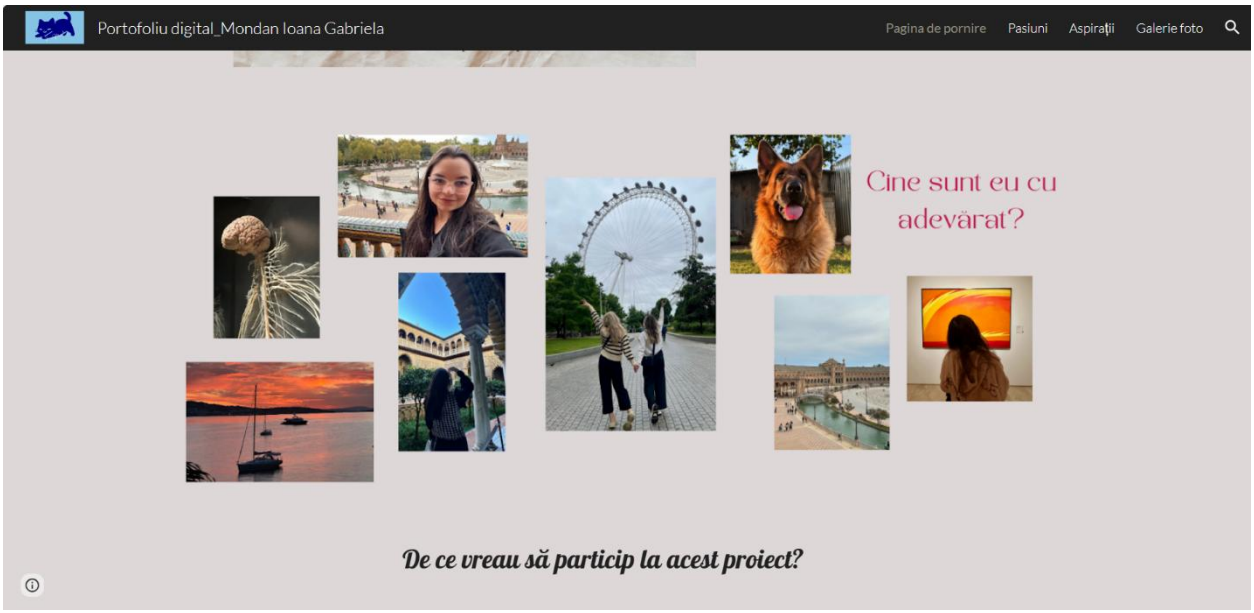




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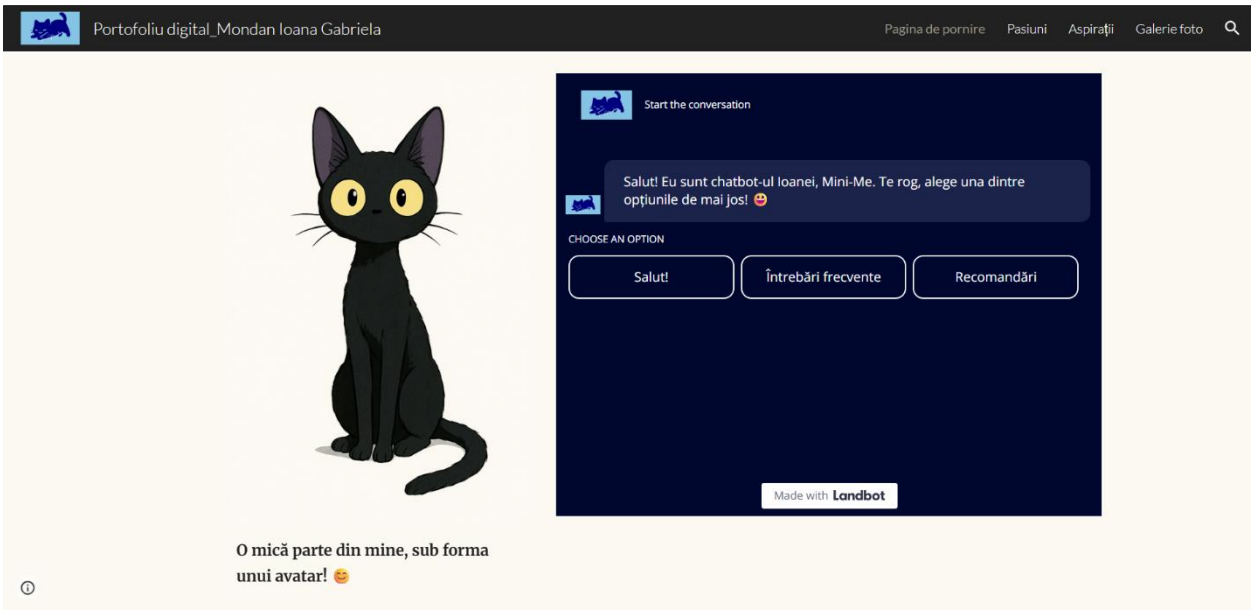


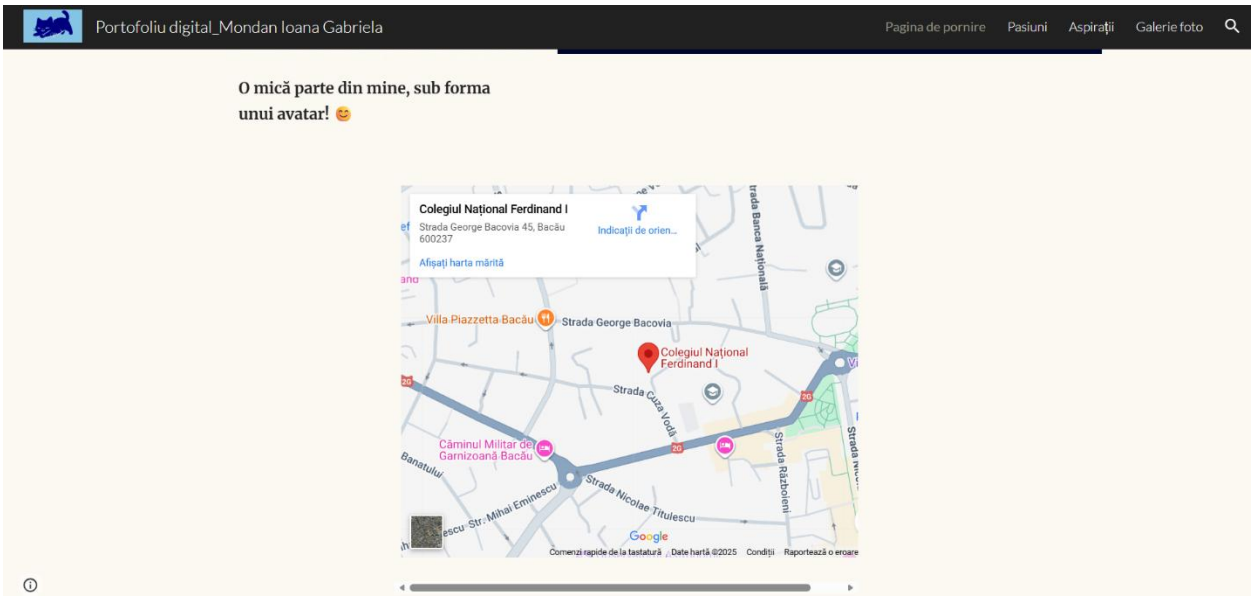


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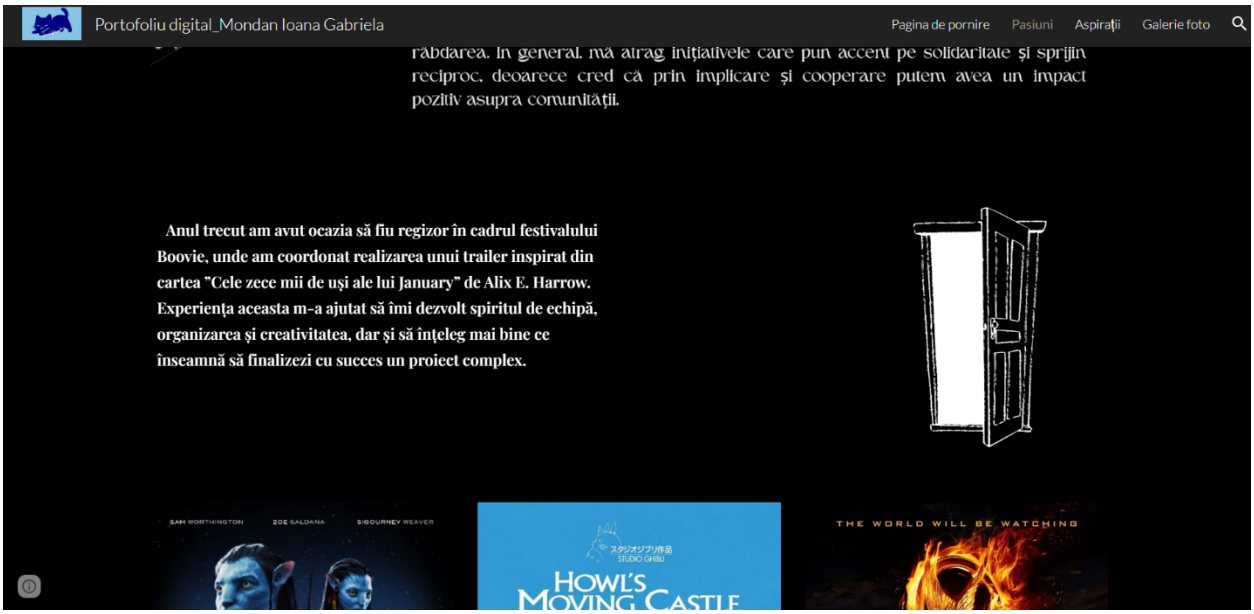


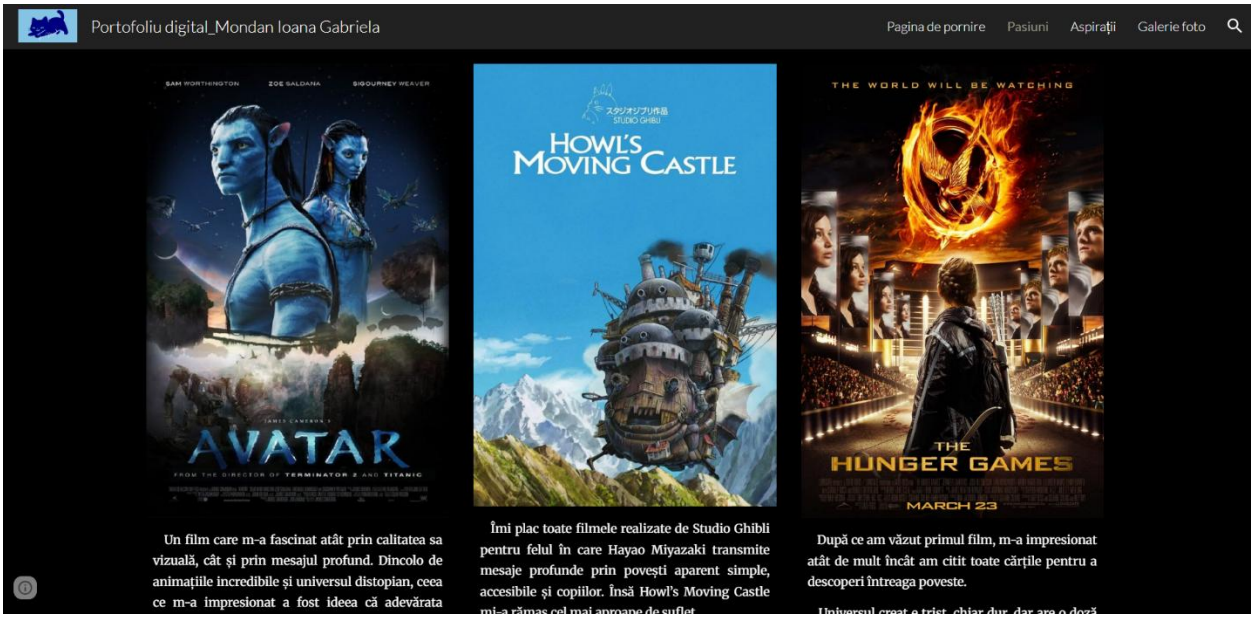
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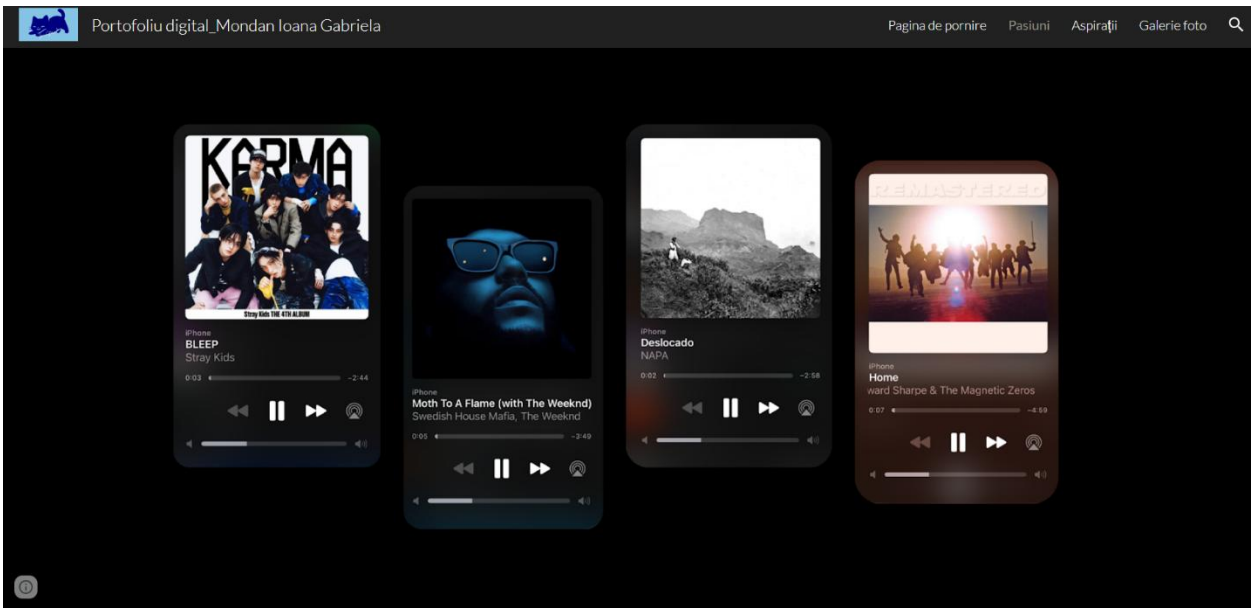


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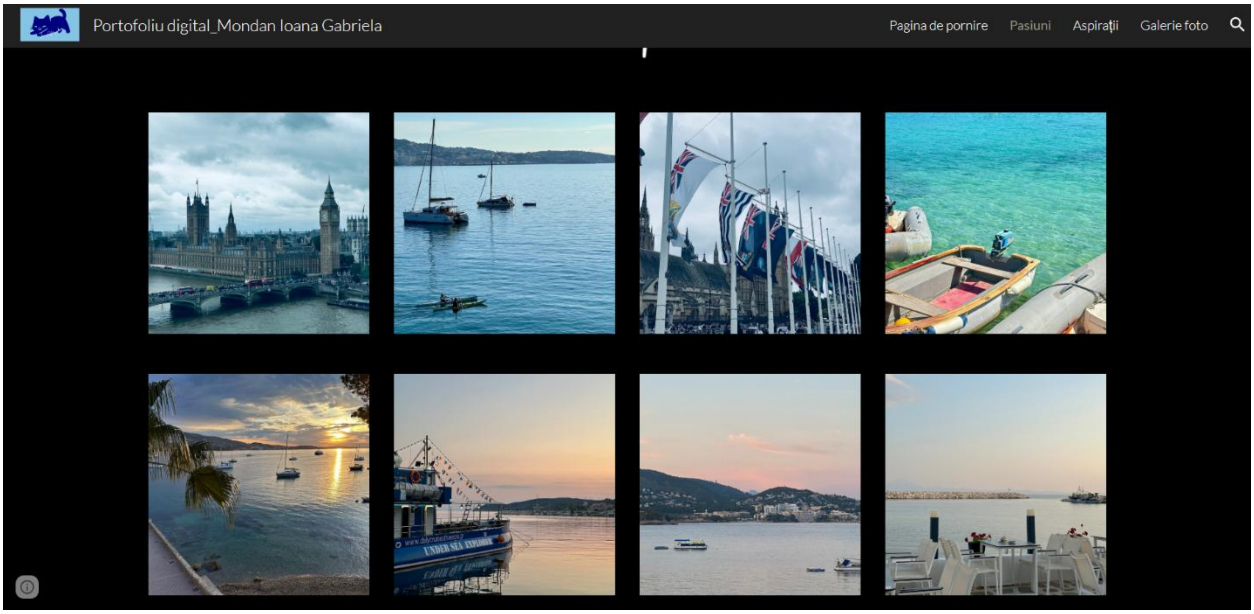


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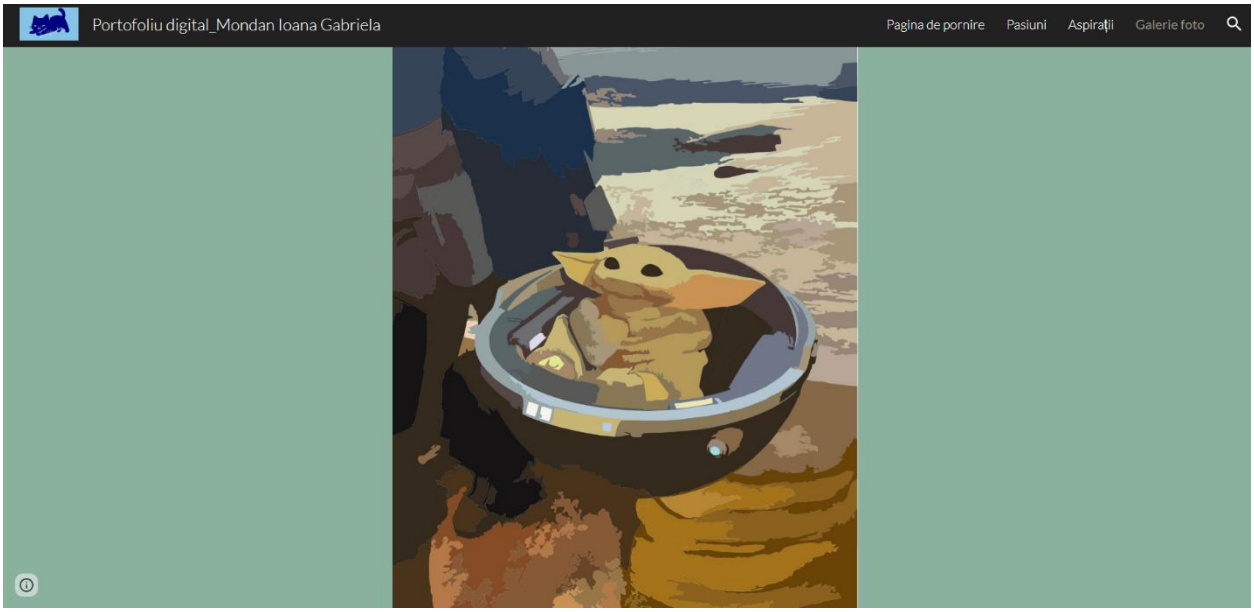


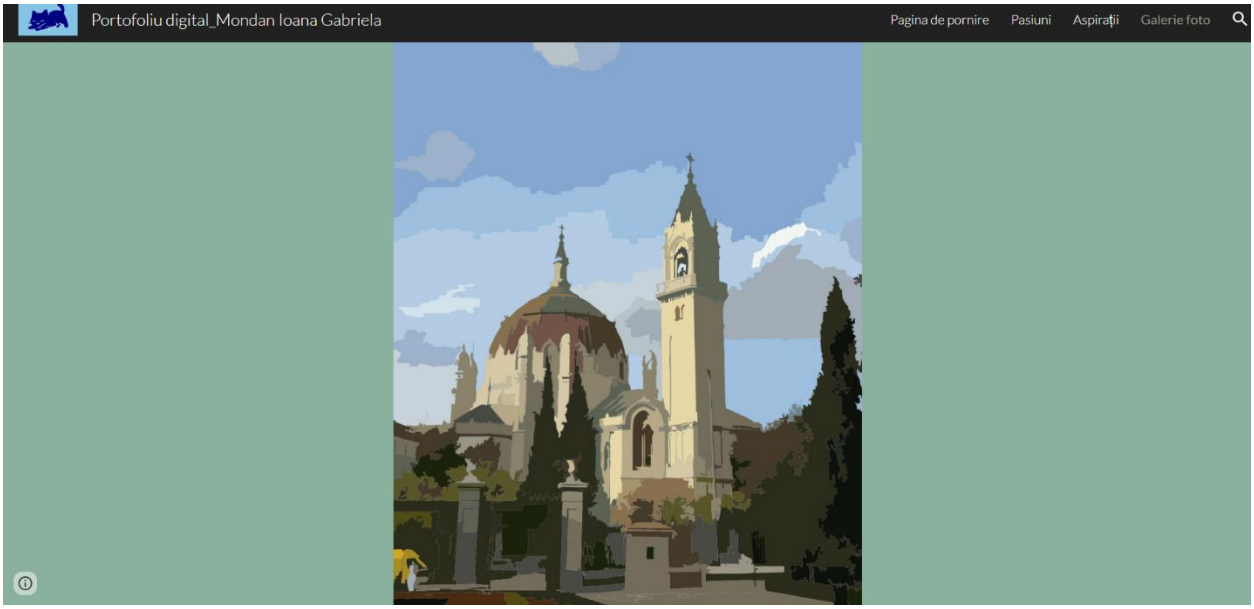
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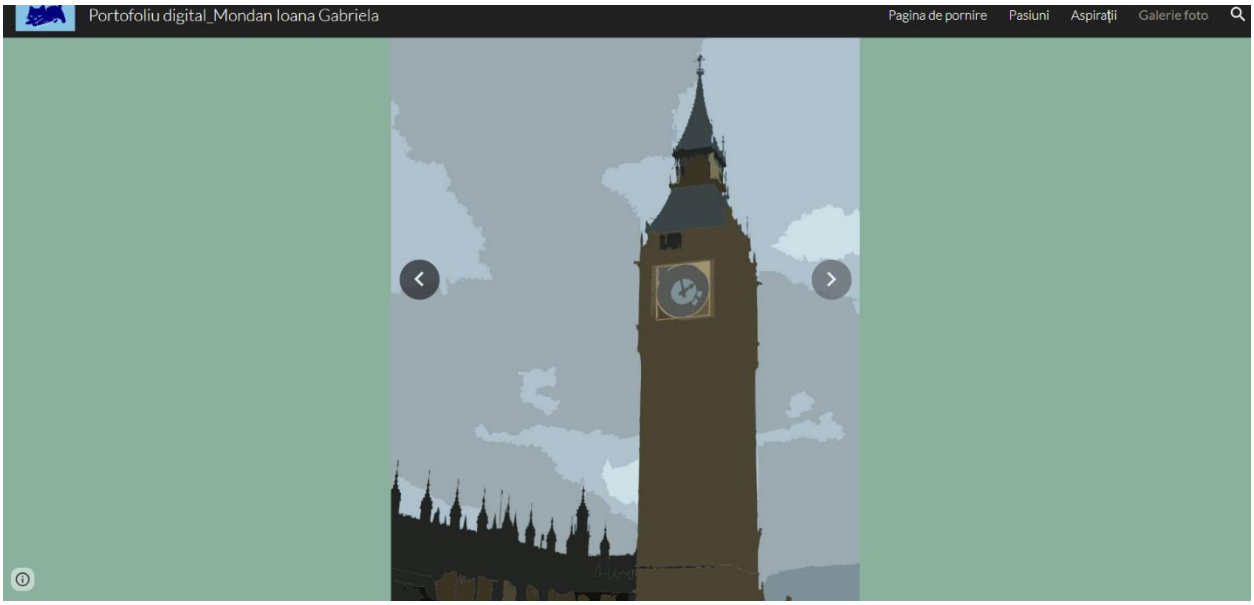


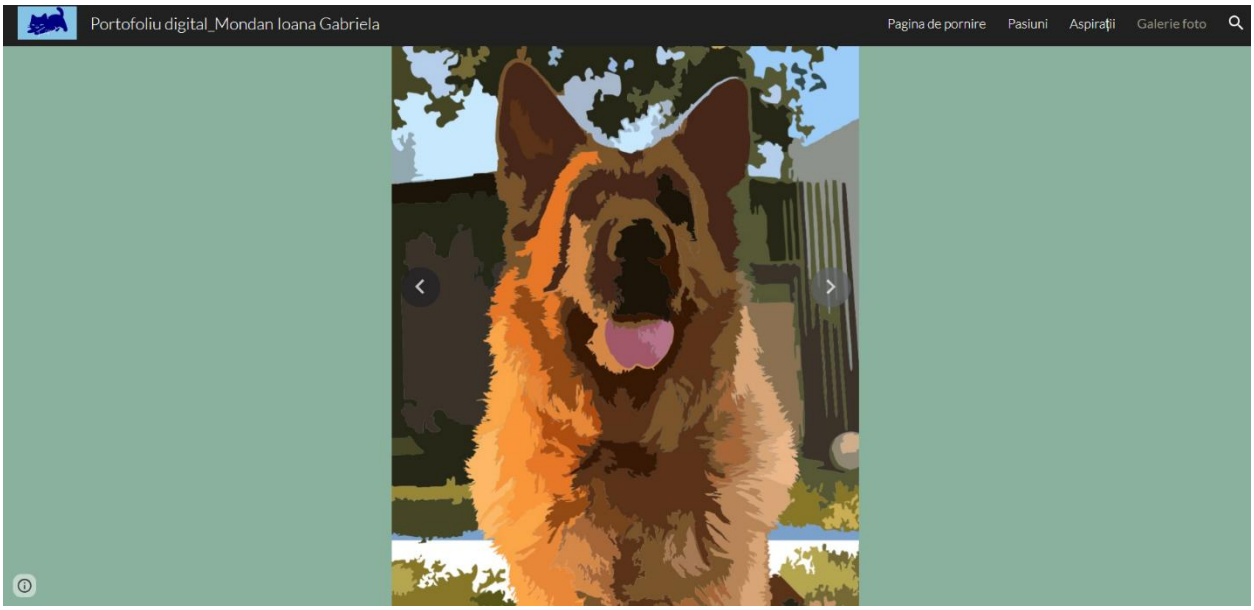


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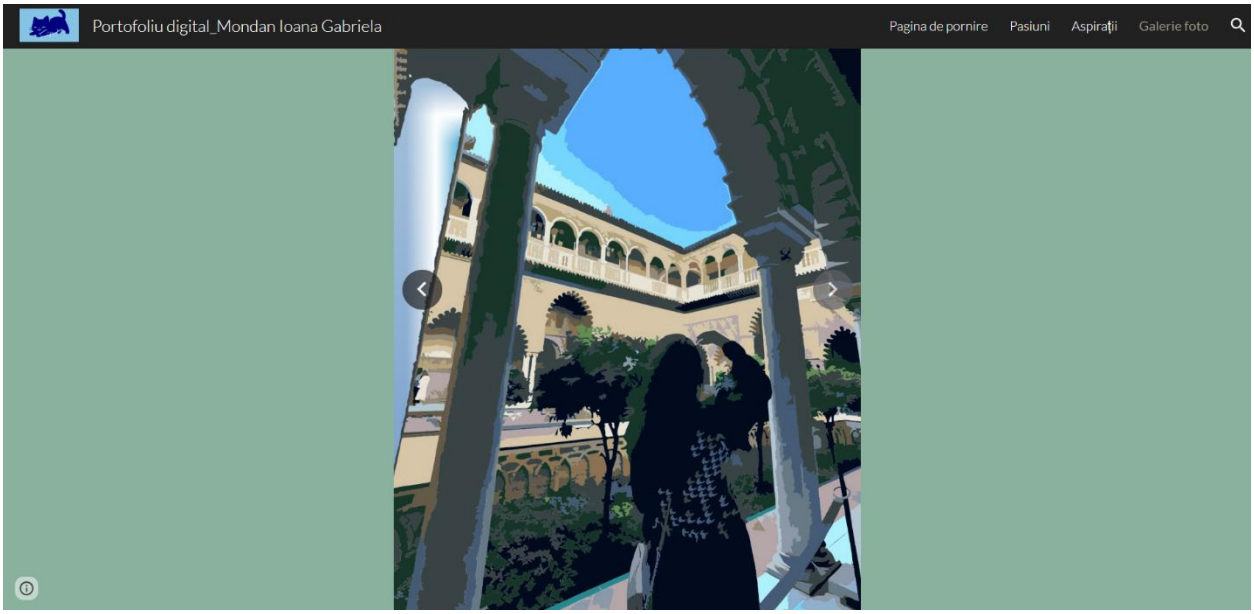


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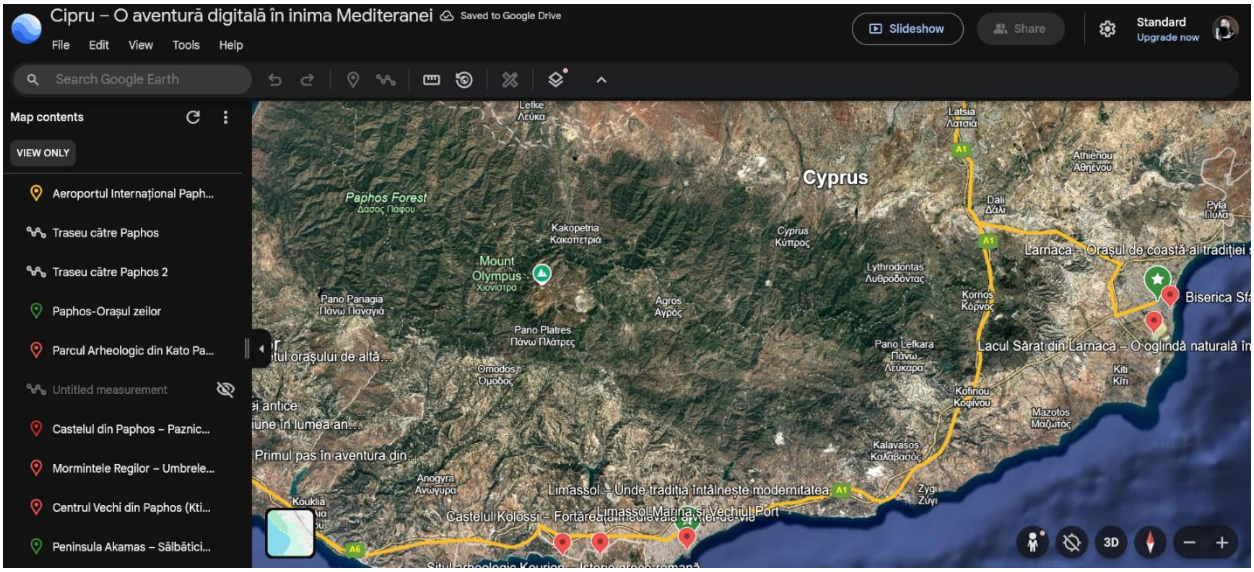


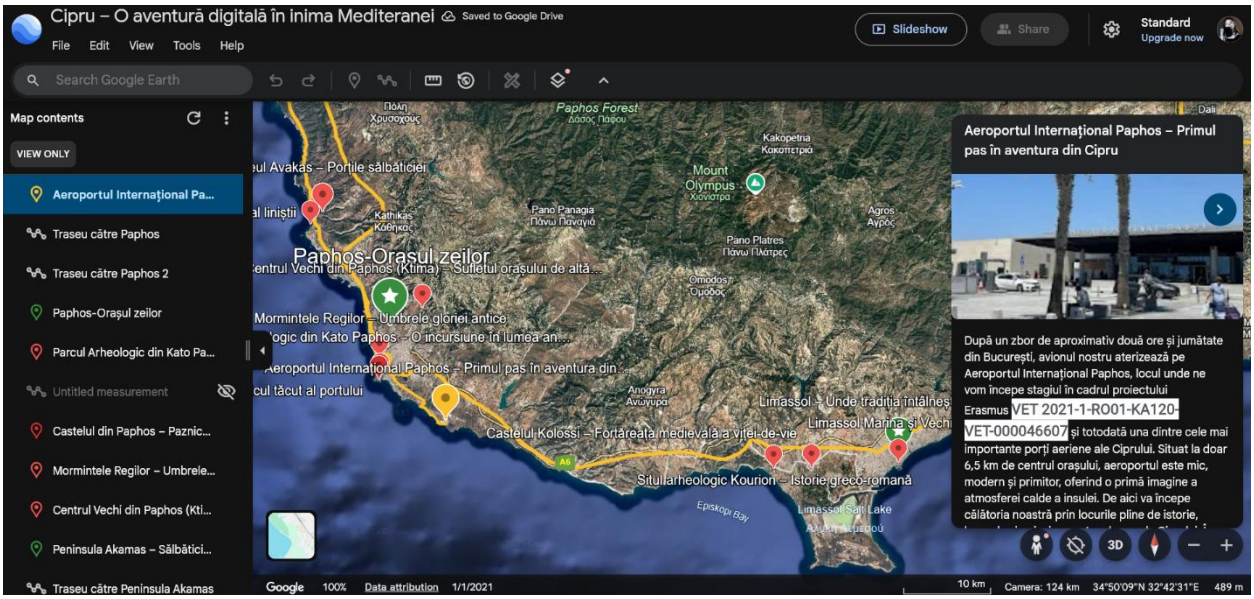
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În cadrul pregătirii culturale, am realizat un proiect în Google Maps, creând o hartă interactivă despre Cipru. Prin acest proiect am descoperit locuri importante, tradiții și aspecte culturale care ne-au ajutat să înțelegem mai bine țara gazdă.



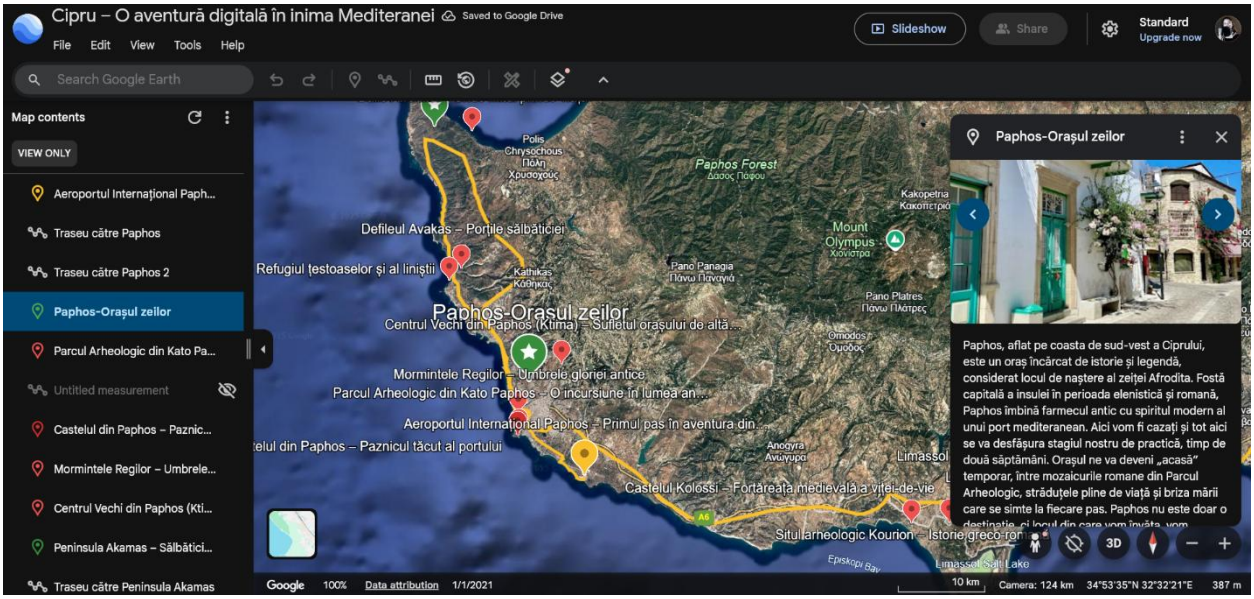


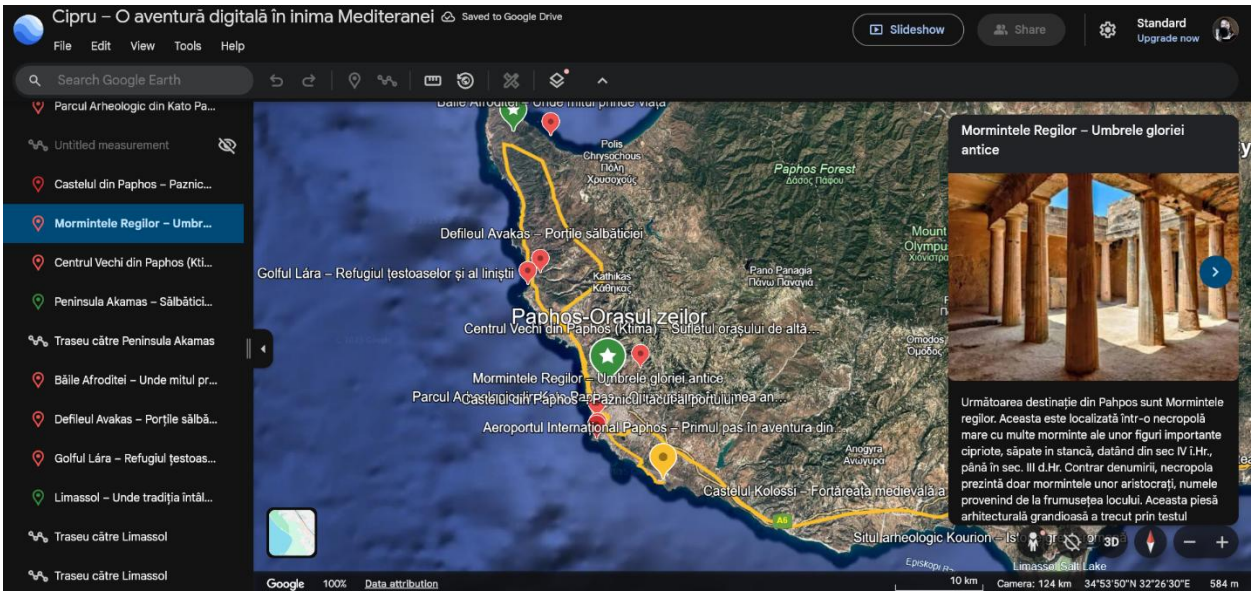
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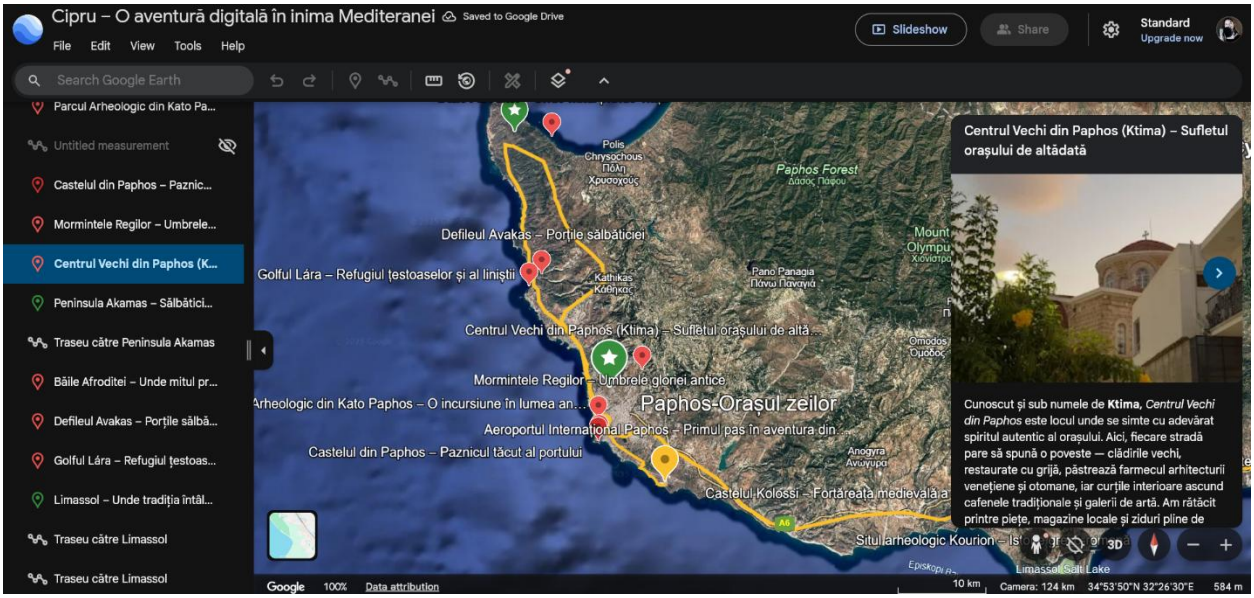


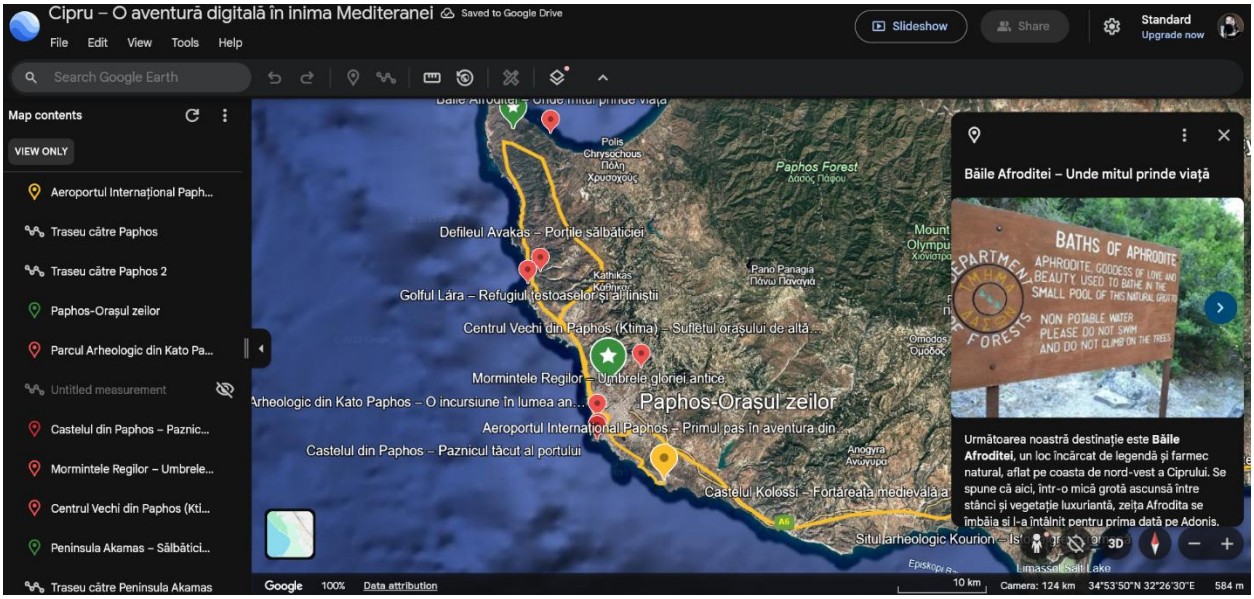
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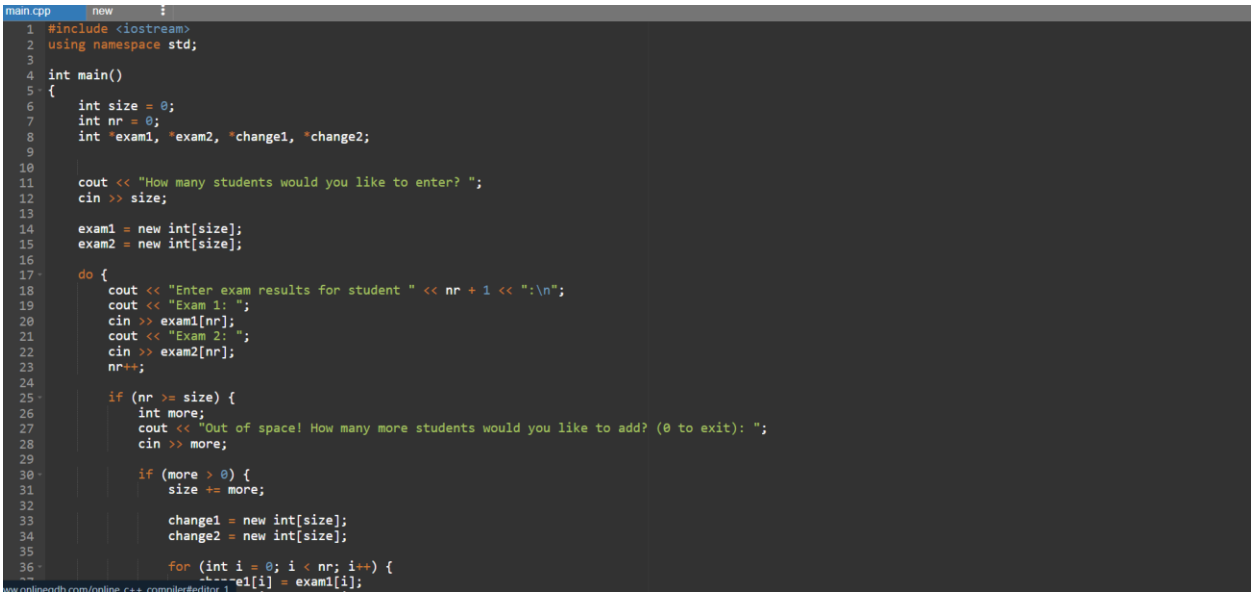


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În cadrul mobilității Erasmus, am lucrat la mai multe proiecte practice în C++ și am învățat să programăm plăcuțe Arduino. Această experiență ne-a ajutat să ne dezvoltăm abilitățile tehnice și să aplicăm cunoștințele în proiecte reale.



```cpp
#include <iostream>
using namespace std;

int main()
{
    int size = 0;
    int nr = 0;
    int *exam1, *exam2, *change1, *change2;


    cout << "How many students would you like to enter? ";
    cin >> size;

    exam1 = new int[size];
    exam2 = new int[size];

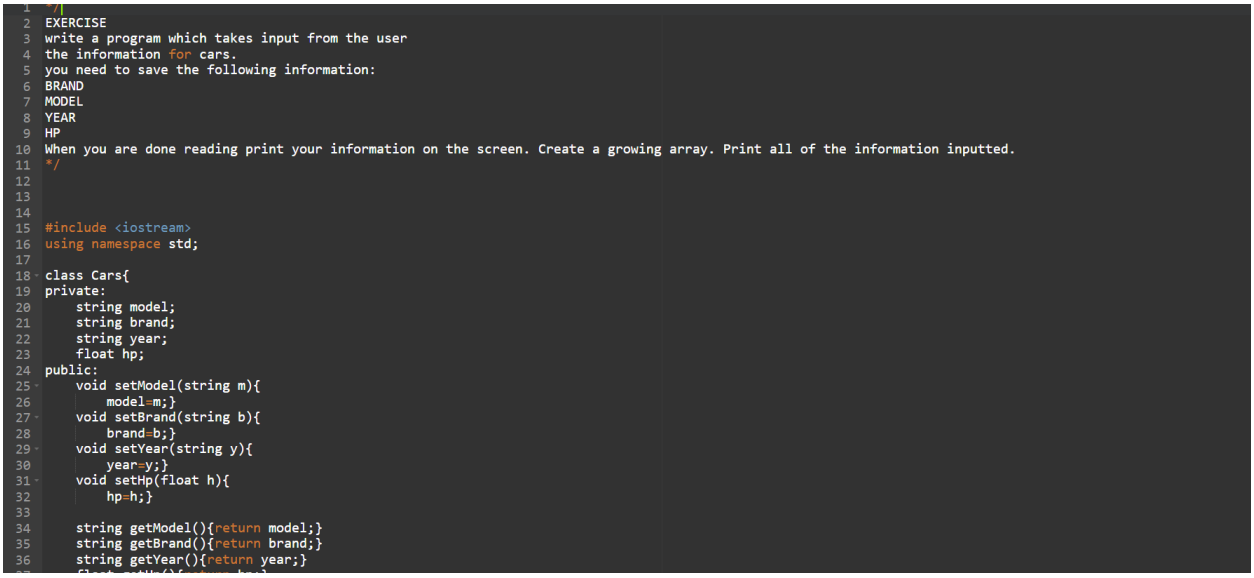
    do {
        cout << "Enter exam results for student " << nr + 1 << ":\n";
        cout << "Exam 1: ";
        cin >> exam1[nr];
        cout << "Exam 2: ";
        cin >> exam2[nr];
        nr++;

        if (nr >= size) {
            int more;
            cout << "Out of space! How many more students would you like to add? (0 to exit): ";
            cin >> more;

            if (more > 0) {
                size += more;

                change1 = new int[size];
                change2 = new int[size];

                for (int i = 0; i < nr; i++) {
                    change1[i] = exam1[i];
```



```cpp
*/
EXERCISE
write a program which takes input from the user
the information for cars.
you need to save the following information:
BRAND
MODEL
YEAR
HP
When you are done reading print your information on the screen. Create a growing array. Print all of the information inputted.
*/



#include <iostream>
using namespace std;

class Cars{
private:
    string model;
    string brand;
    string year;
    float hp;
public:
    void setModel(string m){
        model=m;}
    void setBrand(string b){
        brand=b;}
    void setYear(string y){
        year=y;}
    void setHp(float h){
        hp=h;}

    string getModel(){return model;}
    string getBrand(){return brand;}
    string getYear(){return year;}
```

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```
int main()
{   string model[20], brand[20], year[20];
    float hp[20];
    int i;
    int* temp, nr;
    Cars test;

    temp = new int();

    cout<<"Welcome. How many cars would you like to save? ";
    cin>>nr;


    for (i=1;i<=nr;i++){
    cout<<"Please input the name of the car model:";
    cin>>model[i];
    cout<<"Please input the the name of the car brand:";
    cin>>brand[i];
    cout<<"Please input the year of manufacturing:";
    cin>>year[i];
    cout<<"Please input the horsepower of the car:";
    cin>>hp[i];
    cout<<"Car saved!";
    test.setModel(model[i]);
    test.setBrand(brand[i]);
    test.setYear(year[i]);
    test.setHp(hp[i]);

        if (i==nr) {
            cout<<"==============================";
            cout<<"You have run out of space. How many cars would you like to add? (0 to exit) ";
            cin>>*temp;
        }
    }
```

```
///command line arguments///
///convert the numbers into int///
///stoi=streaks to int///

///perimeter of a square///

#include <iostream>
#include <cstdlib>
using namespace std;

int main(int argc, char** argv)
{
    cout << "You have entered " << argc << " arguments:\n";

    for (int i = 0; i < argc; i++)
        cout << argv[i] << "\n";

    if (argc < 2) {
        cout << "Please provide the side length of the square:" << endl;
        return 1;
    }

    int side = atoi(argv[1]);
    int perimeter = 4 * side;

    cout << "The perimeter of the square with side "
         << side << " is: " << perimeter << endl;

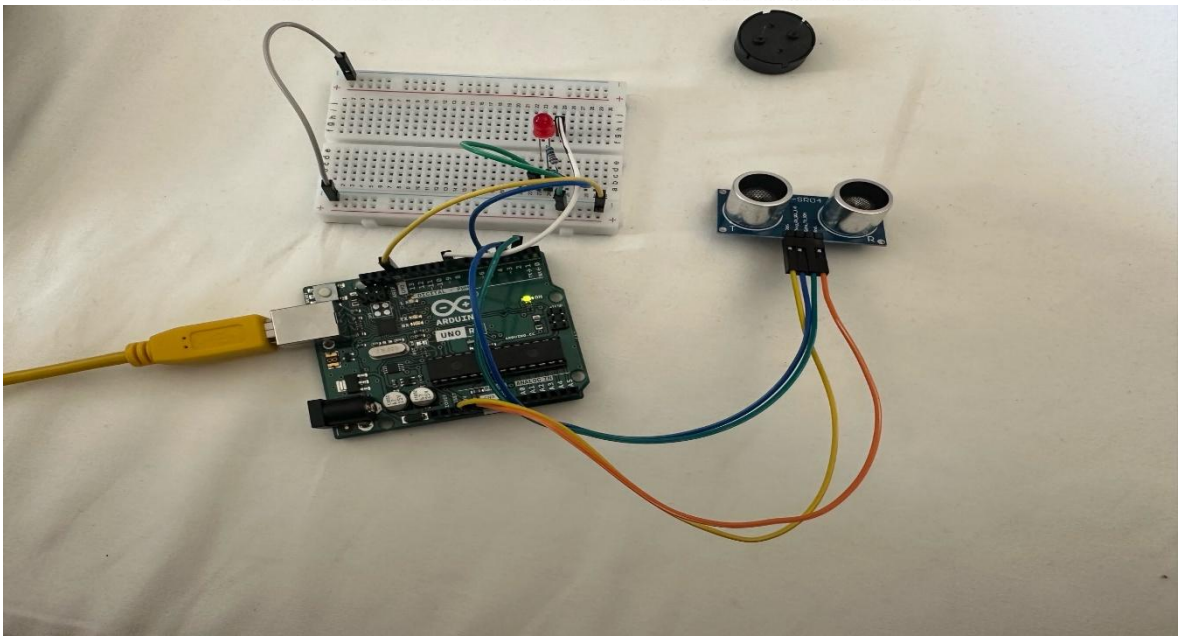
    return 0;
}
```

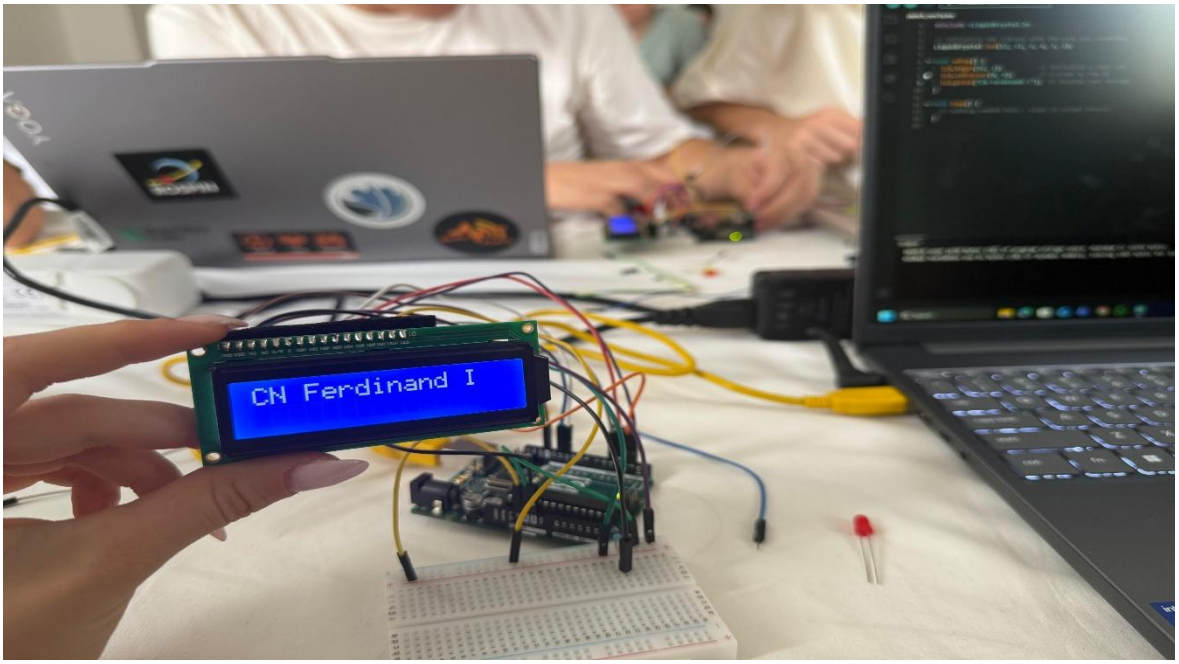
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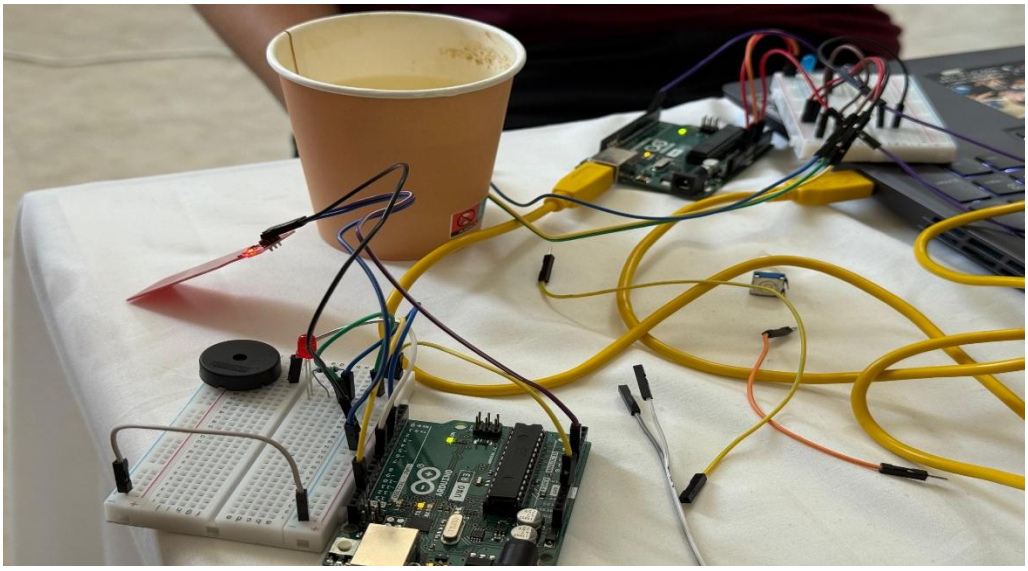




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sketch_nov09a | Arduino 1.8.19 (Windows Store 1.8.57.0)

File Edit Sketch Tools Help

sketch_nov09a §

```
///SOS Led code
void setup() {
  pinMode(LED_BUILTIN, OUTPUT);
}

void loop() {
  // S: 3 short blinks
  for (int i = 0; i < 3; i++) {
    digitalWrite(LED_BUILTIN, HIGH);
    delay(300);
    digitalWrite(LED_BUILTIN, LOW);
    delay(100);
  }

  // O: 3 long blinks
  for (int i = 0; i < 3; i++) {
    digitalWrite(LED_BUILTIN, HIGH);
    delay(600);
    digitalWrite(LED_BUILTIN, LOW);
    delay(100);
  }

  // S: 3 short blinks
  for (int i = 0; i < 3; i++) {
    digitalWrite(LED_BUILTIN, HIGH);
    delay(300);
    digitalWrite(LED_BUILTIN, LOW);
    delay(100);
  }

  delay(1000);
}
```

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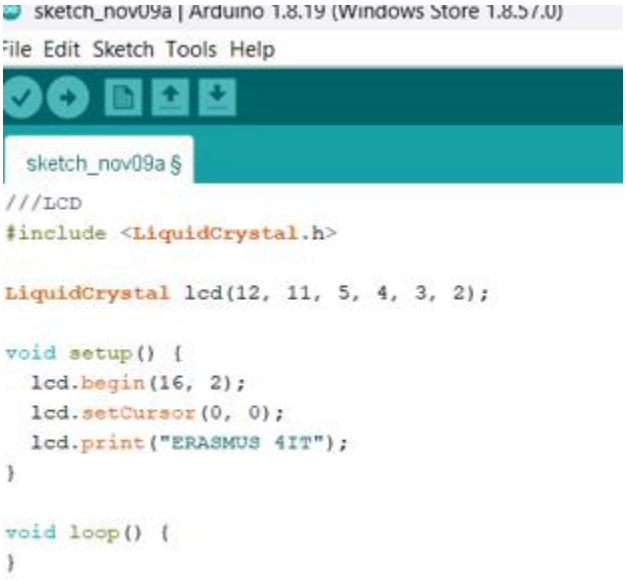
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File Edit Sketch Tools Help

sketch_nov09a §

```
///WE WISH YOU A MERRY CHRISTMAS
#define buzzer 8

#define NOTE_B3 247
#define NOTE_C4 262
#define NOTE_D4 294
#define NOTE_E4 330
#define NOTE_F4 349
#define NOTE_G4 392
#define NOTE_A4 440
#define NOTE_B4 494
#define NOTE_C5 523
#define NOTE_D5 587
#define NOTE_E5 659
#define NOTE_F5 698
#define NOTE_G5 784

int melody[] = {
  NOTE_B4, NOTE_C5, NOTE_B4, NOTE_A4, NOTE_G4,
  NOTE_G4, NOTE_A4, NOTE_B4, NOTE_B4, NOTE_B4, NOTE_A4, NOTE_A4,
  NOTE_B4, NOTE_C5, NOTE_B4, NOTE_A4, NOTE_G4,
  NOTE_A4, NOTE_B4, NOTE_A4, NOTE_G4, NOTE_F4,
  NOTE_E4, NOTE_E4, NOTE_F4, NOTE_G4, NOTE_C4,
  NOTE_E4, NOTE_D4, NOTE_D4,
  NOTE_B4, NOTE_C5, NOTE_B4, NOTE_A4, NOTE_G4,
  NOTE_G4, NOTE_A4, NOTE_B4, NOTE_A4, NOTE_G4, NOTE_F4,
  NOTE_E4, NOTE_C5, NOTE_C5, NOTE_B4, NOTE_G4,
  NOTE_A4, NOTE_B4, NOTE_C5, NOTE_B4, NOTE_A4, NOTE_G4
};

int noteDurations[] = {
  4,4,4,4,2,
  4,4,4,4,4,4,2,
  4,4,4,4,2,
```

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sketch_nov09a | Arduino 1.8.19 (Windows Store 1.8.57.0)

File Edit Sketch Tools Help

sketch_nov09a §

```
);

int noteDurations[] = {
  4,4,4,4,2,
  4,4,4,4,4,4,2,
  4,4,4,4,2,
  4,4,4,4,2,
  4,4,4,4,2,
  4,4,2,
  4,4,4,4,2,
  4,4,4,4,4,4,2,
  4,4,4,4,2,
  4,4,4,4,2,2
};

int tempo = 180;

void setup() {
  pinMode(buzzer, OUTPUT);
}

void loop() {
  int numNotes = sizeof(melody) / sizeof(melody[0]);

  for (int i = 0; i < numNotes; i++) {
    int noteDuration = 1000 / noteDurations[i];
    tone(buzzer, melody[i], noteDuration);
    delay(noteDuration * 1.3);
    noTone(buzzer);
  }

  delay(2000);
}
```

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