Facultatea Calculatoare, Informatica si Microelectronica

Universitatea Tehnica a Moldovei

Medii Interactive de Dezvoltare a
Produselor Soft
Lucrarea de laborator Nr.4

Dezvoltarea unei aplicatii mobile

A efectuat : Dobrin Eduard lector asistent : Cojanu Irina

lector superior : Melnic Radu

Lucrarea de laborator #4

1 Scopul lucrarii de laborator :

Realizarea aplicatiei pe Android

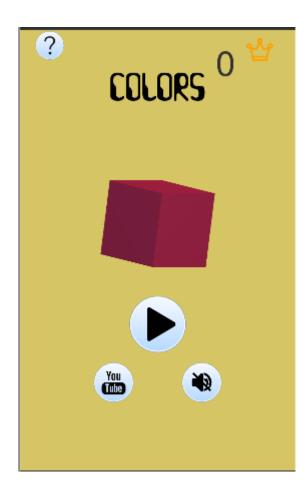
2 Obiectivele lucrarii:

- Cunostinte de baza privind arhitectura unei aplicatii mobile
- Cunostinte de baza ale platformei SDK

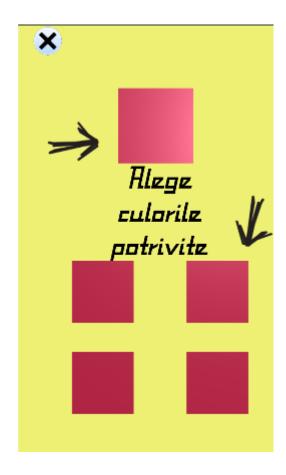
3 Mersul lucrarii:

Drept IDE am folosit Unity. Ca limbaj de programare a fost folosit C#. Are mai mult scene si urmatoarea structura.

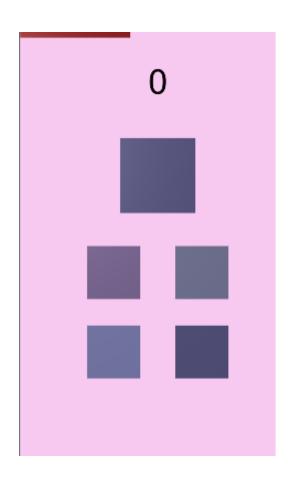
Scena main:



Scena How To:



Scena play:



Screenshoturi din procesul crearii:

```
if (PlayerPrefs.GetString("Music") != "no")
   GetComponent<AudioSource>().Play();
count++;
score.text = count.ToString();
aColor = new Vector4(Random.Range(0.1f, 1f), Random.Range(0.1f, 1f), Random.Range(0.1f, 1f), 1);
GetComponent<Renderer>().material.color = aColor;
next = false;
if (count < 3)
   rCol = 0.2f;
   gCol = 0.2f;
   bCol = 0.2f;
else if (count >= 3 && count < 5)
   rCol = 0.1f;
   gCol = 0.1f;
   bCol = 0f;
else if (count >= 5)
   rCol = Of;
   gCol = Of;
   bCol = 0.05f;
rand = Random.Range(0, positions.Length);
for (int i = 0; i < positions.Length; i++)
   if (i == rand)
       blocks[i].GetComponent<Renderer>().material.color = aColor;
       float r = aColor.r + Random.Range(0.1f, rCol) > 1f ? 1f : aColor.r + Random.Range(0.1f, rCol);
       float g = aColor.g + Random.Range(0.1f, gCol) > 1f ? 1f : aColor.g + Random.Range(0.1f, gCol);
        float b = aColor.b + Random.Range(0.1f, bCol) > 1f ? 1f : aColor.b + Random.Range(0.1f, bCol);
       blocks[i].GetComponent<Renderer>().material.color = new Vector4(r, g, b, aColor.a);
```

```
void playerLose()
{
    if (PlayerPrefs.GetInt ("Score") < count)
    PlayerPrefs.SetInt("Score", count);
    plost.SetActive(true);
    if (PlayerPrefs.GetString("Music") == "no")
        plost.GetComponent<AudioSource>().mute = true;
```

Concluzie:

In lucrarea data s-a creat o aplicatie mobila pe Android. Insusi aplicatia reprezinta o joaca simpla (Colors). Joaca suporta doar un singur regim. Dupa fiecare joc cistigat – jucatorul acumuleaza puncte. Ca IDE s-a folosit **Unity** si **Visual Studio.** Au fost adaugate butoane de resetare a jocului. In urma efectuarii lucrarii am acu,ulat multa experienta pe mobile, totodata am studiat mai profund **Unity** si am invatat limbajul **C**#