

Sadržaj

- Opis i cilj igre
- Zadatak
- Opis implementacije
- Prikaz važnih klasa
- Zaključak

Opis i cilj igre

U igri učestvuju dva igrača, jedan protiv drugog.

lgra se sastoji od raspoređivanja brodova na tabli i pogađanju protivničkih.

Cilj je pogoditi sve protivničke brodove.

Zadatak

Implementirati klase:

- Engine
- Grid
- Tile i
- Ship

Povezati gore navedene klase s main funkcijom tako da čine jednu cjelinu.

Opis implementacije

Igra je implementirana korištenjem C++ programskog jezika i SDL (Simple DirectMedia Layer) biblioteke.

Klasa Engine

```
18
     class Engine
19
20
    public:
21
         Engine();
22
         Engine(const string &gameTitle);
23
         void init();
24
        void loadMedia();
25
         void drawText(string S, int x, int y, TTF Font* font, SDL Renderer* gRenderer);
26
        bool run();
27
         virtual ~Engine();
28
    private:
29
         string gameTitle;
30
         SDL Window* gWindow;
31
         SDL Renderer* gRenderer;
         TTF Font* font;
32
33 };
```

Klasa Grid

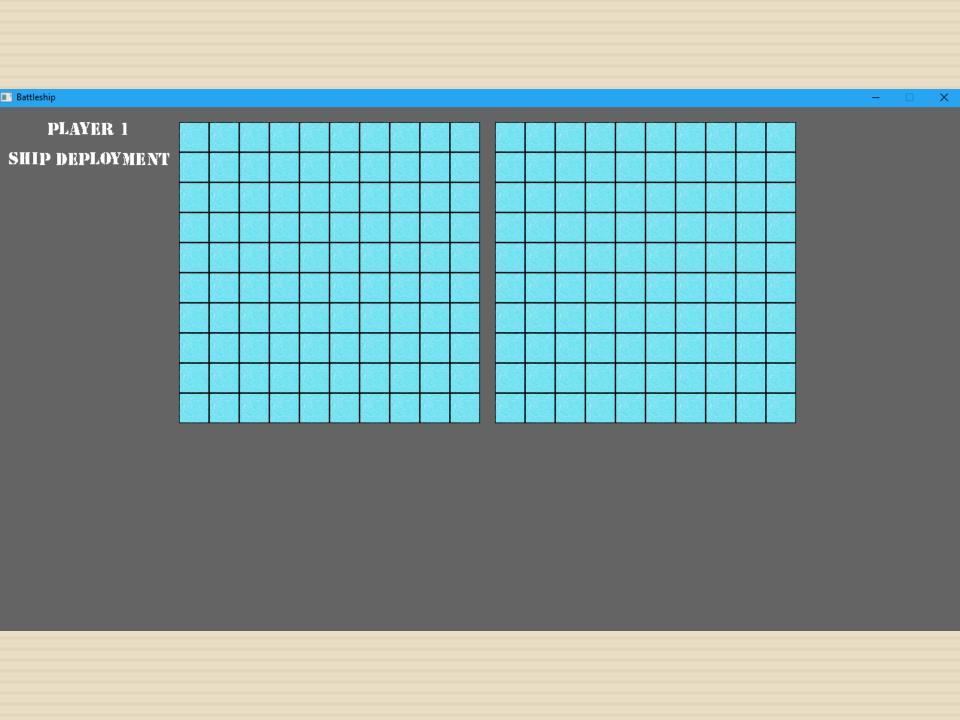
```
class Grid:public Engine
9
10
    public:
        Grid();
11
12
         ~Grid();
13
14
         bool loadFromFile(string path, SDL Renderer* gRenderer);
15
         void free();
         void render(int x, int y, SDL Renderer* gRenderer, SDL Rect* clip = NULL);
16
17
18
    private:
         SDL Texture* mTexture;
19
        int mWidth;
20
21
        int mHeight;
22
   };
```

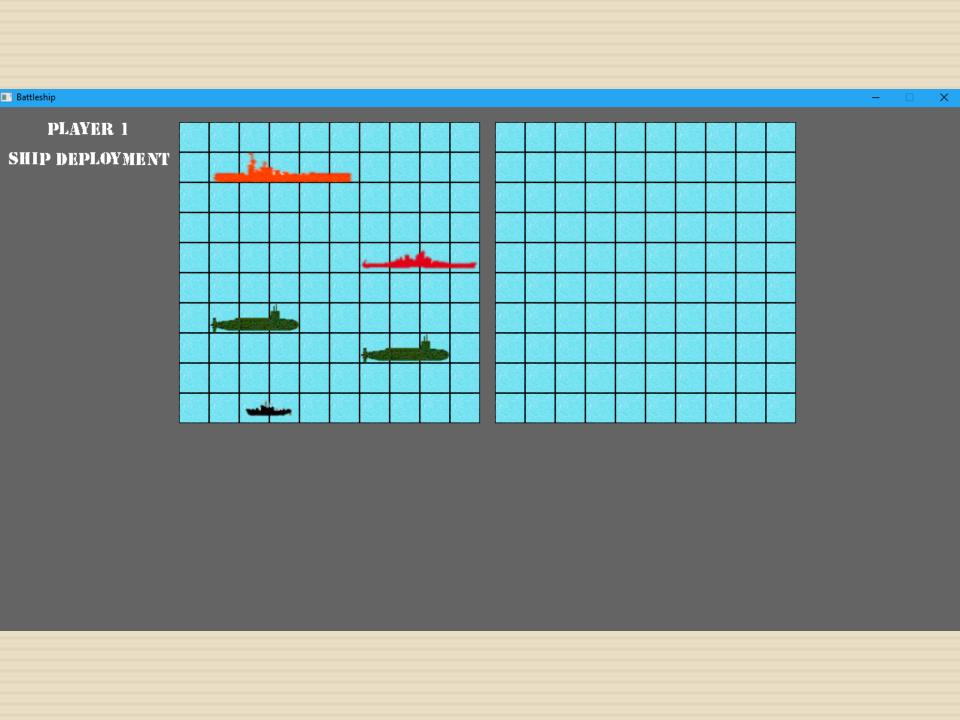
Klasa Tile

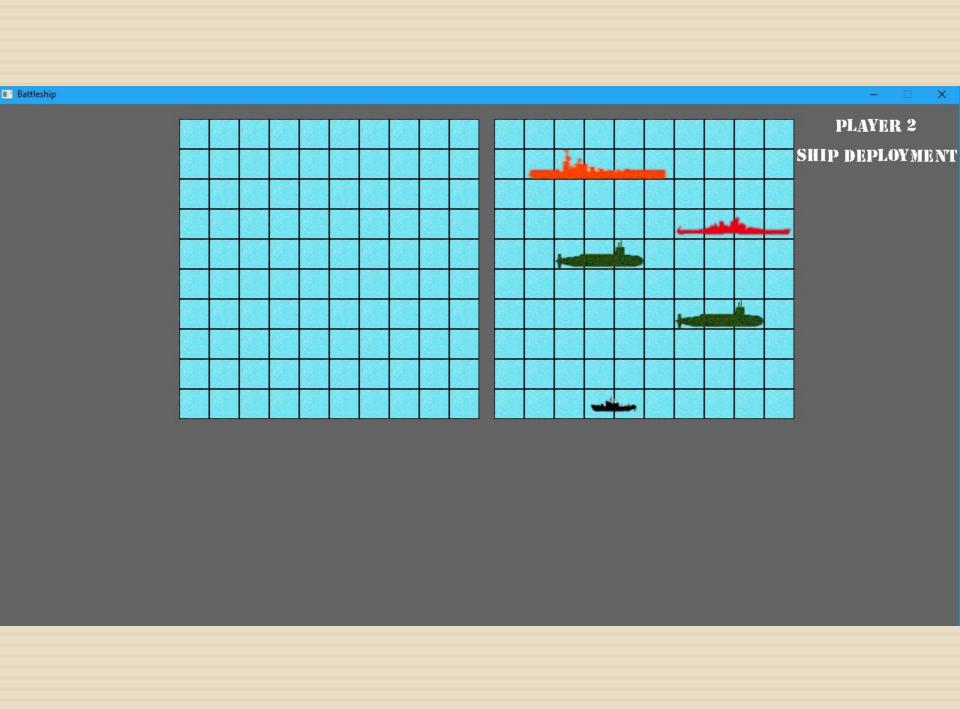
```
8 class Tile : public Grid
9 {
10 };
```

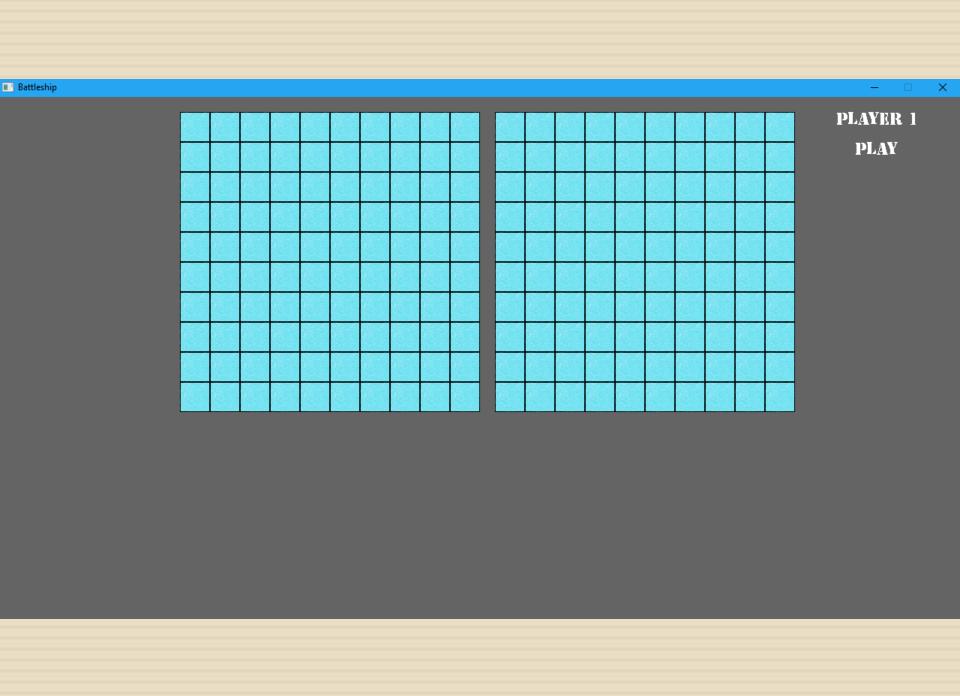
Klasa Ship

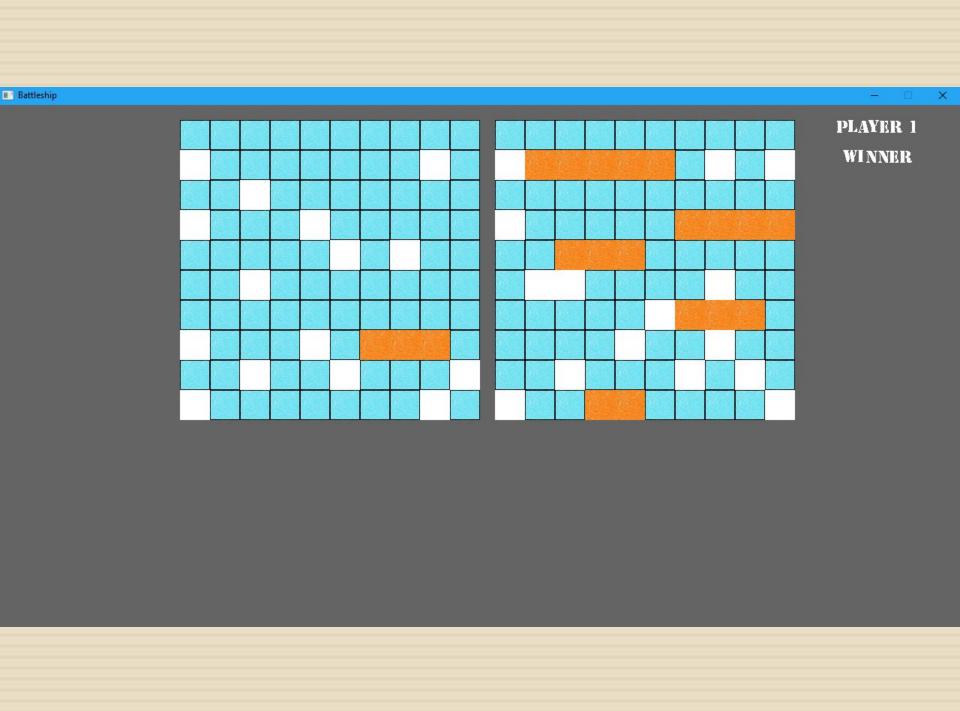
```
class Ship:public Engine
     public:
10
        Ship();
11
12
        ~Ship();
13
14
         bool loadFromFile(string path, SDL Renderer* gRenderer);
15
        void free();
16
         void render(int x, int y, SDL Renderer* gRenderer, SDL Rect* clip = NULL);
17
18
    private:
         SDL Texture* mTexture;
19
        int mWidth:
20
21
         int mHeight;
22
   };
```











Zaključak

Programski jezik C++ je objektno-orijentisan i karakterišu ga velika brzina i efikasnost prilikom zauzimanja memorijskih resursa.