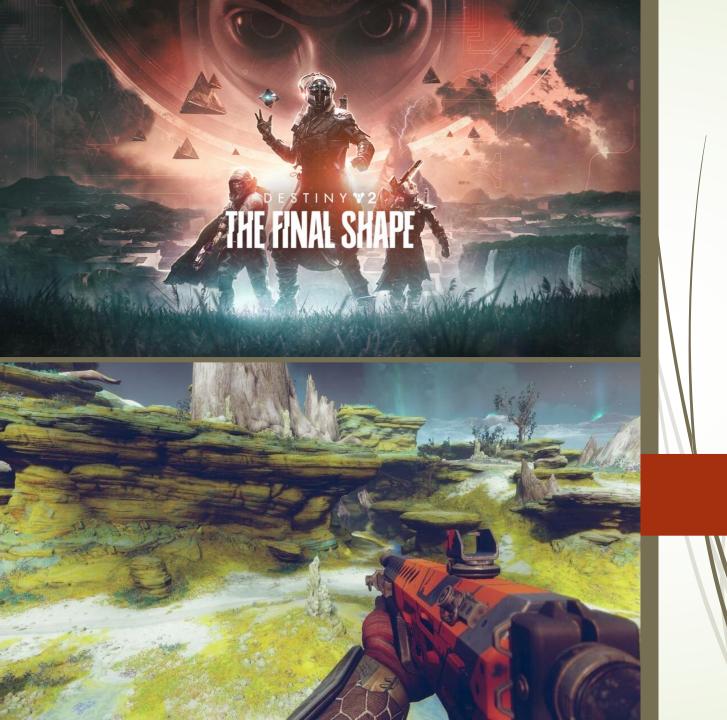
Final project Destiny 2 themed 2D platformer

Abzal Orazbek



Design

Graphics















Sounds

effects engram_pickup.mp3 thrall_explosion.mp3 music music beyond_light.mp3 destiny_2_main.mp3 forsaken_darkness_gathers.mp3

forsaken_dreaming_city_main....

Programming

```
✓ FINAL

                                                                           level1_data = 🖯
   "background": "assets/images/background/europa_1.png"
                                                      "music": "assets/sounds/music/beyond_light.mp3",
                                                        > n fonts
   "layout": [
                                                        > 🛒 images
                                                        > r sounds
                                                      ~$AbzalOrazbek Final Pres... U
       "W T
                                                          ~$zalOrazbek Final Report.... U
       "W WWWW
                                                          AbzalOrazbek Final Presentation...
                                          W",
                                                          AbzalOrazbek Final Report.docx
                                         T W".
                                                      W".
       "W
                                                        > 📂 pycache
       "W

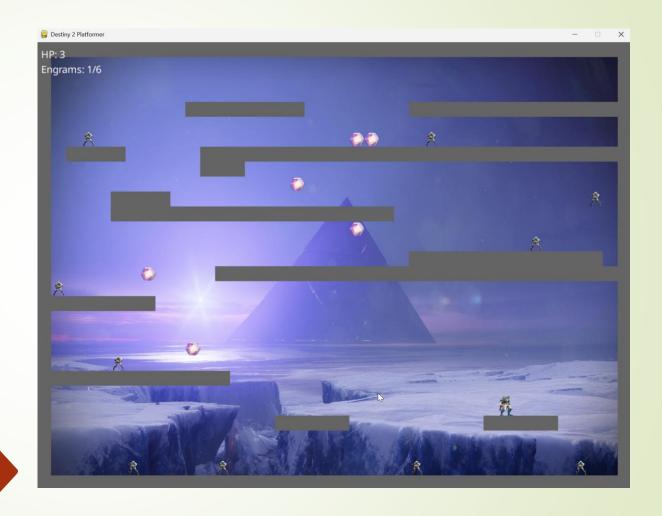
✓ 

levels

       "W
                                                          e game.py
       "WT
                                                          e level.py
                                                          main.py
                                                          🔷 player.py
                                                          di.py
                                          W"
                                                          dutils.py
                                                         • .gitattributes
                                                         • .gitignore
                                                         MI README.md
                                                        requirements.txt
                                                         startGame.cmd
   "tile_size": 30,
                                                        startGame.sh
   "player_spawn": (1000, 700),
   "engram_count": 6,
```

```
for row_index, row in enumerate(layout):
   for col_index, cell in enumerate(row):
      x = col_index * tile_size
      y = row_index * tile_size
      if cell == 'W': # Wall
          tile = pygame.sprite.Sprite()
          tile.image = pygame.Surface((tile_size, tile_size))
         tile.image.fill((100, 100, 100)) # Gray color for walls.
          tile.rect = tile.image.get_rect(topleft=(x, y))
          self.tile_group.add(tile)
      elif cell == 'E': # Engram
          engram = pygame.sprite()
          engram.image = pygame.transform.scale(engram_image, (tile_size, tile_size)) # Scale engram image
         engram.rect = engram.image.get_rect(topleft=(x, y))
          self.engram_group.add(engram)
      elif cell == 'T': # Trap
          trap = pygame.sprite.Sprite()
         trap.image = pygame.transform.scale(trap_image, (tile_size, tile_size)) # Scale trap image
          trap.rect = trap.image.get_rect(topleft=(x, y))
         self.trap_group.add(trap)
   class Player(pygame.sprite.Sprite):
        def __init__(self, spawn_position, image_path):
             super().__init__()
              self.image = pygame.image.load(image_path).convert_alpha()
             self.image = pygame.transform.scale(self.image, (30, 40))
             self.rect = self.image.get_rect(topleft=spawn_position)
             self.velocity = pygame.math.Vector2(0, 0)
             self.speed = 5
             self.gravity = 1
             self.jump_forcer= -30
             self.on_ground = False
             self.hp = 3 # Initial health points
```

Result



Future plans

- Better gravity
- More levels
- Random levels
- Codebase improvements

