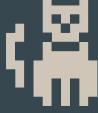
```
namespace roquelike
  title Cat's Minion
     ProjectManager Jarosław Kaszczak;
     Developer Dominika Barrett;
     Developer Krzysztof Fieber;
```



Project Overview

Create Roguelike game

- > Tile-Based
- > Real-time interaction between characters
- ➤ Labyrinth exploration
- > When Player dies game restarts
- > Levels contain collectable items, fights with enemies, finding treasure
- > Saving state of the game
- > Tests of the game

GameStory =

"In front of the gate Character meets a Cat.

Creature gives a Player the key and send for a mission.

Player opens gate and explores cellar."

Enemies: Bats, Ghost

Collectable items: Bone, Coin, Armor, Weapons, Helmets, Food

UsedTools;













<Inspiration>

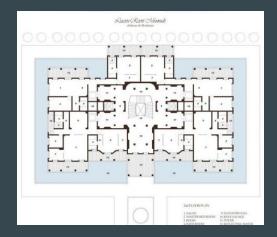












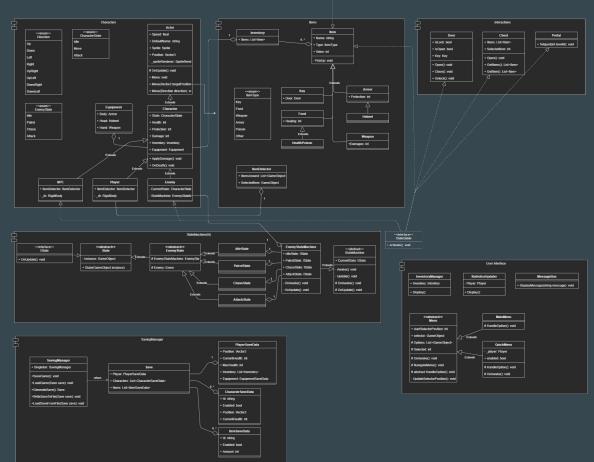
Let's play!



using Game.Architecture;

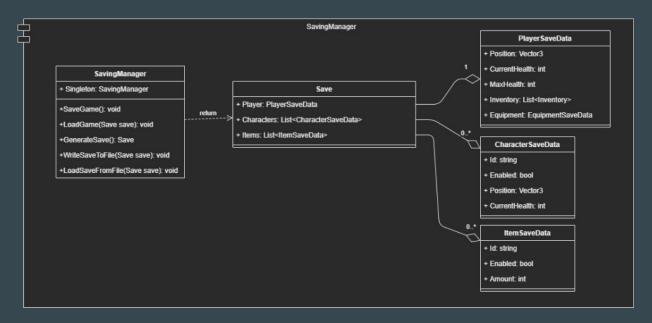
Modules:

- > Characters
- > Items
- > State Machine (AI)
- > Interactive
 Items
- > User
 Interface



SavingManager

- > Create
 "Save"
 object
- > Convert
 "Save" to
 json format
- > Write json to file



Klasa Save

PlayerSaveData

```
using System.Collections.Generic;
using DungeonCrawl.Actors.Items;
using Source.Actors.Characters;
using UnityEngine;
namespace Source.Core.SavingManager
    [System.Serializable]

☑ 9 usages 
② Jaroslaw Kaszczak +1 
⑤ 2 exposing APIs

    public class PlayerSaveData
        public Vector3 position; 

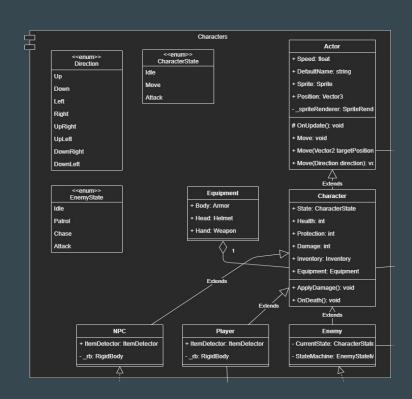
Serializable

        public int currentHealth; <a Serializable</a>
        public int maxHealth; 
    Serializable

        /// Id's of the items
        /// Id's of the items
        public EquipmentSaveData equipment; ← Serializable
```

json

Inheritance vs Composition





Using properties to update UI



```
public class Equipment
    /// <summaru>
    /// Character witch have equipment instance.
    private Character _character;
    ? usages ? overrides & Jaroslaw Kaszczak ? ext methods ? exposing APIs
    public Equipment(Character character)
        _character = character;
    private Armor _armor;
    ? usages ? overrides & Jaroslaw Kaszczak. ? ext methods ? exposing APIs
    public Armor Armor
        get => _armor;
            if (value != null)
                 if (_armor == null)
                      _character.Protection += value.Protection;
                     _character.Protection -= _armor.Protection;
                      _character.Protection += value.Protection;
                 _character.Protection -= _armor.Protection;
             _armor = value;
             InventoryManager.Singleton.DisplayEquipment();
```

```
List<Challenges>
  "Unity",
  "WiFi",
  "Lockdown",
  "PC Storage",
  "Files exchange",
  "Json",
```



Fu<T>ure Plans

- > Code refactoring
- Storyline
- \succ Creating more advance futures in the Game
- Working on improvement of the Game
- Publishing Cat's Minion on the Steam
- Writing tests for majority of the code



```
if (Question != null)
Answer();
else
"Thank you for watching";
```

