
Assignment 2

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1. Responsibility Driven Design

Here the features of Responsibility Driven Design will be explained per feature we added this sprint.

1.1 Jumping on Bubbles

Player

Responsibility:

The player class will handle the movement of the player.

Collaborations:

It will be communicating with SpriteBase for collisions.

SpriteBase

Responsibility:

SpriteBase will be responsible for detecting collisions with BubbleSprites.

Collaborations:

It will be communicating with Player.

1.2 Warping

Level

Responsibility:

When loading the map, it should be clear where the player is able to warp.

Collaborations:

When the player collides with a warpable area, Level should communicate with Player to tell him where he warped to.

Player

Responsibility:

This class will be moving the player and spawning it after the warp.

Collaborations:

When the player warped, it communicates with ScreenController to be redrawn.

1.3 Refactoring Controllers for Testing

LevelController

Responsibility:

The responsibility for this class will *only* include creating levels and all communication between the objects in the game.

Collaborations:

It will communicate with the objects in the game (Model package) and with the MainController. It will also be the bridge to ScreenController for the SpriteBases.

MainController

Responsibility:

MainController will be the controller that is loaded by the FXML. It will have all untestable objects and will separate the GUI from the LevelController.

Collaborations:

LevelController and ScreenController will communicate via MainController.

1.4 Better Physics

Player

Responsibility:

Player is responsible for the movement of the player itself.

Collaborations:

Player will be communicating with LevelController for the set of walls it could collide with. This all affects the physics.

2. Updated UML

