

Assignment 3: Code Review - Kirby & Monica

CollisionHandler.java

Code duplication:

- Our CollisionHandler class had two separate checkTile() methods:
 - checkTile(Player entity), for checking if the player collided with a tile
 - checkTile Enemy entity), for checking if an enemy collided with a tile
- These methods were identical except for the parameter type
- Since Player and Enemy are both subclasses of Character, we reduced code duplication by combining these methods into one checkTile method under the Character superclass

Reference the commit below to see the changes:

 reduced code repetition by creating one checkTile method for player & enemy
monica authored 16 hours ago

36b3d44f  


Player.java and Enemy.java



Code duplication:


Both classes had a draw() method that was nearly identical, except for one statement in the Player draw() where there is an animation when it collides with a punishment.



We replaced the draw methods in player & enemy with one draw method for both in Character, reducing the duplicated code. We added an if statement in the new method for the Player animation.

Reference the commit below to see the changes:

 updated parameters for calls to draw player & enemy
monica authored 16 hours ago

c13c26fb  

 created one draw method for player & enemy to reduce duplicate code
monica authored 16 hours ago

8da3ae8a  

Gamescreen.java

- **Long method**
- **Complicated Switch statement:**

This class has a method called paintComponent which contains a switch statement with 7 cases (different game states). Because of the number of cases the method was long and difficult to understand. We extracted methods to execute the commands under each case, making the paintComponent method shorter and easier to understand.

Reference the commit below to see the changes:

 decomposed long paintComponent method
monica authored 1 minute ago

ab535e64  

GameScreen.java, MouseInput.java, GameOverMenu.java, GamePauseMenu.java, TitleScreenPanel.java, and GameWinMenu.

Duplication: Restart & player states have a lot of repeated code

- The for loops within the switch statement “RESTART” have been deleted. While it was repeated code, it also served no purpose since the loops would run on the “PLAYING” state regardless.



Removed unnecessary function calls in switch statements
kmarquez authored just now

a24523be



High coupling - needs a lot of classes to work (hurts testability)

Reduce coupling: grouped some of the dependencies together and/or created bigger abstractions. Our overall refactoring of code is what helped reduce the coupling, which can be found in all of our commits past Dec.8.

Unused imports and variables(check warnings in IntelliJ)

Removed excess imports that were never used (eg. javax.imageio.ImageIO, game.objects.Exit, java.awt.image.BufferedImage, and java.io.FileInputStream)

- These imports were covered by simply importing the entire package in one line via the “*” character (eg. import java.awt.*)
- Removed unused variables in game state screens (eg String title, String developers, int buttonWidth, and int spacing never used in all states).



Removed unused variables and imports
kmarquez authored 2 hours ago

7772d660



Refactoring code and **Poor documentation**(via function creation to control override functions and fill unnecessary auto blocks)

Instead of having the main function operate under implemented mousePressed(), I decided to create a function in line with the keyHandler() that takes in the truth values and mouseInputs. This way I can utilize the other implemented mouse functions rather than having them stay empty as required overrides. Also added comments to specify the if statements' purpose.



Improved documentation of MouseInput via comments
kmarquez authored 32 minutes ago

49b2c56d



Refactored code from MouseInput to match keyHandler efficiency
kmarquez authored 48 minutes ago

e37860c8

