CCT301: Project
Team Subpar's Game Report:
System Design Report

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Class name: GameObject Parent class (if any): N/A Subclasses (if any): MovableObject, StaticObject Responsibilities: * Acts as an object that must be drawn within the game that the player can see Collaborators: * Player class * Bullet class * Wall class Class name: MovableObject Parent class (if any): GameObject Subclasses (if any): Player class, bullet class Responsibilities: * A GameObject that can move and has velocity Collaborators: * Player class * Bullet class * GameObject Class name: StaticObject

CRC Cards

Parent class (if any): GameObject

Subclasses (if any): wall class
Responsibilities:
* A GameObject that is fixed in space
Collaborators:
* wall class
* GameObject
Class name: Player class
Parent class (if any): GameObject Interface
Subclasses (if any): N/A
Responsibilities:
* shows the player avatar on the screen.
* moves the player avatar.
* notifies the GameObject interface when a game "tick" is updated such as when the player is moving.
Collaborators:
* GameObject interface
* Wall class
Class name: Bullet class
Parent class (if any): MovableObject
Subclasses (if any): N/A
Responsibilities:

* shows the bullet location on the screen.
* bullet moves under specific rules, such as rebounding off of walls.
Collaborators:
* MovableObject
* Wall class
Class name: Wall class
Parent class (if any): StaticObject
Subclasses (if any): N/A
Responsibilities:
* shows the wall location on the game screen.
* walls follow a set number of rules, such as blocking a player or rebounding a shot.
Collaborators:
* StaticObject
* Player class
* Shot class
Class name: KeyHandler
Parent class (if any): KeyAdapter
Subclasses (if any): N/A
Responsibilities:
* Handles all the key presses and notifies all of it's observers that are looking for key strokes.

Collaborators:
* KeyObservable
Class name: KeyObserver
Parent class (if any): Observable
Subclasses (if any): N/A
Responsibilities:
* Keeps track of all of it's observers and notifies when invoked
Collaborators:
* KeyHandler
* Player class
System Interaction
- The system should be able to run a .jar file, so they would need java of a version of
8.0.1110.14 or greater
System Decomposition
- Since the user input is whitelisted, the program can only accept user keystrokes that move
the player avatar. Therefore, no exception handling should be needed for failure testing.
System Architecture

