Ch07, Ch08, Ch23 Dela Cruz, Falcon, Respicio 24 January 2024 Q2 Project Proposal

Game: Reigning cats and dogs

Rationale:

Before deciding, we all wanted to create a project that would be expandable, unique and challenging to do. Weighing the different possibilities and concepts for each project that we had, we concluded that Jaden's project is the one that would bring about a more unique and riveting experience for the player as well as us, the programmers. We also saw that this would really enhance our knowledge and skills in java compared to the other projects as this is easily the most complex out of the three just by looking at its flowchart. We also saw that this had the most potential out of the three projects because of the number of different classes that would interact with each other and thus creating a game with an ecosystem that would feel alive and realistic. With these reasons, we collectively decided to work on Jaden's project which is "It's Reigning Cats and Dogs".

CRC cards:

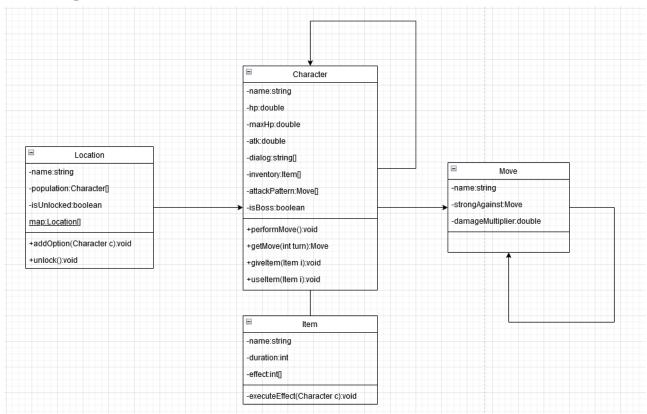
Character	
	Item Move
has a maxHP has an atk	
has dialog	
has arrayltemInventory has isBoss	
can perform Move can use Item	
• can give Item	

Integrity, Excellence, Service

Location		
• has name	• Character	
has unlocked has population array Of Characters		
has population arrayOfCharactershas static map arrayOfLocations		
• can be Unlocked		
Move		
has name	Character	
has strongAgainst		
has damageMultiplier		
Item		
has name	Character	
has arrayEffect		
has duration		
can be Used on Character		

CRC Link

UML diagram:



UML Link

List of Exceptions:

1) Location is still locked

If the player attempts to access a new location, the model will check whether or not the value for the boolean variable "unlocked" is true or false. If the value for "unlocked" is true, then the player will be able to access the location. If the value is false, then a prompt will be displayed stating "Unavailable for now! Maybe we should continue with the story...".

2) Player's name is the same as an NPC's name

In the beginning of the game, when the player is asked to input their name, the model checks if the player has the same name as the NPC. In the case that they do not have the same name, a prompt will show indicating "Greetings, <name>!". However, if the player has the same name as an existing NPC, a prompt will appear saying: "Oops... this name is taken. How about something else?".

3) Player attempts to heal but HP is already at maxHP

In the middle of a battle, if the player uses an item that heals themselves, the model will check first whether or not HP < maxHP. If HP < maxHP, then the usage of the item will succeed*. However, if HP = maxHP, the player will be shown the message "HP is already full! This item cannot be used right now."

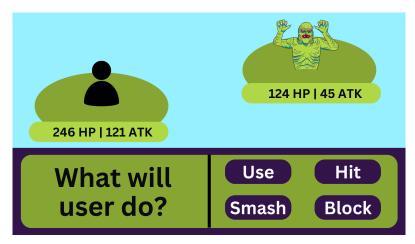
*Note: In case the heal will make HP go past the maxHP, then HP will be capped and set only to maxHP.

UI Appearance:

1) Main Menu



This is the main menu of the application, which is also the first screen that shows up once the game is fully loaded. The play button will start up the game, settings is for keybinds and other relevant options, and quit is to exit the application. 2)



This is the battle screen of the application. The upper part of the screen is the visuals of you and your opponent battling it out. Meanwhile the lower portion of the screen shows what you can do during the battle. There are four options that the player can choose from and has corresponding outcomes.

GitHub Link:

https://github.com/carlresp/itsreigningcatsanddogs.git