CMPT 220L111 Spring 2015

Software Development I

Game Project v0.1

Overview

This semester we are building an interactive adventure game in Java in the object-oriented style.

For this second version of your project, you will design a working, albeit rudimentary, framework for your game. This will include several Java Classes and, for now, employ a text-only interface.

Deliverables

- Upon launch, display an introduction including title, back-story, and description of the starting location.
- Upon completion/exit, display a the game credits including at least author and date.
- After each game update, display the following information:
 - o current location, number of moves made, directions to move (from the current location)
- Include the separate classes for the following game objects:
 - Player has at least a name, current location, and inventory.
 - Item has name and description. Make at least four (4) items; one must be a map of the world.
 - Location has at least a name, description, and list of items present.
 - World contains at least eight (8) and uses a matrix to define connections between them.
 - You may choose to employ an NxN adjacency matrix or a 4xN navigation matrix.
- Use Game Engine class to manage operations of the game, including the following basic tasks:
 - Step of a basic game loop <u>read</u> user input, <u>update</u> the game state, <u>render</u> the game state.
 - The game engine must be able to display the intro and credits.
 - Launch the game via a main method that creates the game objects and starts the game loop.
- Your game must read user commands as case-insensitive single characters (for now).
 - Commands correspond to the following player methods (command character shown in bold):
 - Move either North/South/East/West or forward/back/turn left/turn right (WASD).
 - Take an item from and Drop and item to her current location.
 - Check her Inventory and look at the Map (if she has found and taken it).
 - **Q**uit the game.
 - Report invalid commands and display help information as needed.

Source Code

Your program design must clearly use separate objects for distinct concerns. Your code must be consistently formatted and demonstrate accepted best practices.

Submitting

<u>Create a new Branch</u> of your BitBucket repository. <u>Push changes frequently</u> with concise and relevant commit messages. <u>Open an Issue</u> if you need any help along the way – I reply quickly.

Finally, send me a <u>Pull Request</u> before the iLearn due date. Once graded, <u>merge</u> your branch it into the *master*.