CMAC3720 Team Game Assignment Spring 2024

Each team will create a 3D Role Playing Game with the following features.

- 1. A cohesive story that drives the game.
 - a. Why are the characters in the game doing what they are doing?
 - b. Why does the player's character want to do what you want them to do?
- 2. A game world that fits with the story and supports the game play.
 - a. At least one structure must exist which requires a key to enter.
 - b. The world should be large enough to allow some amount of exploration by the player.
- 3. A sequence of quests for the player's character to fulfill.
 - a. The quests should increase in difficulty.
 - b. The quests should logically follow one another.
 - c. There should be three quest which do not include combat, which should be done from a third-person perspective.
 - d. There should be three quest which do include combat, two of which must be done from a first-person perspective.
- 4. A set of items to collect throughout the game.
 - a. Some items may be traded or bought in the game.
 - b. Some items may be used to make other items.
 - c. An inventory system must be used to hold, display, and retrieve the items held.
 - d. Ammunition and possibly armor should be available for collection and use.
- 5. The player's character should be able to move throughout the game world and do some specialized activities.
 - a. The player's characters abilities should grow as the game advances.
 - b. The player's character should be able to interact with the NPCs.
 - c. Character abilities may include sensing, strength, speed, etc.
 - d. The player's character should be able to have a choice of weapons.
- 6. The NPCs should have possibly similar abilities to the player's character.
 - a. Some NPCs should be working against you.
 - b. Some NPCs should be helping you.
 - c. Some NPCs should be disinterested in you.
- 7. The player's character should gain experience through successful questing.
 - a. Advanced experience should be reflected in some useful way in the game.
- 8. Combat involving the player's character is to be done in at most three quests in the game.
 - There must be three quests with no combat.
- 9. An appropriate user interface must be included.
 - a. Real-time player status should be presented.
 - b. Other useful information may be displayed.
- 10. The game must use behavior trees to control the NPCs.
 - a. There must be a BT for the enemy NPCs.
 - b. There must be a BT for the disinterested NPCs.