

Text Adventure RPG

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Abstract

Text Adventure RPG (better name to come) will be a game similar to something like Dungeons and Dragons. Our target audience is someone who enjoys fun RPG style games. So far, we have our repo set up with our individual branches. We have also created a mock-up for the GUI interface of the game.

1. Introduction

Text Adventure RPG will be a text-based RPG adventure game that allows the player to explore a text-filled world, pick a class, level up, gain gold and loot. Game development is an interesting area and we are looking forward to learning more about what all of that entails. The majority of the game will be text based. We hope to achieve this with minimal graphics, aside from a few images to make the visuals a bit more interesting.

1.1. Background

Our game, as has been previously mentioned, is going to be a text based adventure. Text based adventure games involve text information around every event that occurs within the game. It will be strictly GUI based with text for every event that happens. From picking up loot and gaining gold/experience to fighting goblins.

Creating a world for others to explore is a very exciting task to take on. Being able to take part in this project is something we have both always wanted to do. This project should not be too difficult, with a scope that won't be too large for the semester. The game will also be single player, for simplicity.

1.2. Challenges

Stuff for Billy to fix up.

2. Scope

Due to the game being more text-based, the scope is easier to handle. It involves some basic gameplay mechanics, the storyline, and how the player will interact with the world. It also includes our two stretch goals that we want to complete if we have the time.

1. Interactive GUI for Gameplay

This will be the main window of the game where you will see your level, gold, experience, any quest updates and information, and the basic player controls for moving area to area.

2. The Story

The story will be pretty simple given the time we have. It will most likely involve the player escaping a prison to start our their new life.

3. Class Selection

We are thinking about three classes. A warrior, mage, and thief. Pretty basic selection and shouldn't take much to implement. They will vary in starting stats and abilities/weapon choice.

4. Obtain/Use Loot

Obtaining and using loot will be as simple as seeing some text appear and then the appropriate changes regarding the loot obtained or used. It could be a weapon swap, using a potion, or getting a quest item.

Stretch Goals

5. Gold and Leveling System

Pretty straightforward. Include a way to obtain gold and perhaps have a small shop to buy and sell goods. As well as the

leveling system based on gaining experience from quests and defeated enemies in the world.

6. Different Locations/Areas

The starting location will be a sewer type location after the player gets out of prison. We hope to also add a few more areas. Perhaps a city and a forest for the player to explore.

2.1. Requirements

The requirements were gathered by researching and thinking of what would be the best for our purposes in the game. The functional are the basic abilities that the user should be able to do at any point. The non-functional requirements involve keeping the game stable and of a higher standard.

2.1.1. Functional.

- The user must have the ability to equip and unequip their weapons/armour.
- The user should have private inventories that can't be accessed but from themselves.
- The user should be able to run or fight from any battle.
- The user should have the ability to quit the game at any point.

2.1.2. Non-Functional.

- Stability - the game should always run with as little problems as possible
- Quality - the quality of the game should be to our highest expectations

2.2. Use Cases

Use Case: 1

Name: Select a Class

Description: The player will need to do this almost at the start of the game. They will choose whether they want to be a Warrior, Mage, or Thief class. As they click on the class, they will see the stat spread and starting gear of each class. Once they pick the class they want, they will click "Select" and they will start the game with the class they selected.

- 1) Player clicks on a class within the GUI.
- 2) Player reads and decides on which class they want to have.
- 3) Player clicks "Select" on the class they want and obtain the gear and stats associated with that class.

Use Case: 2

Name: Attack an Enemy

Description: You will come across enemies in the game, some pretty immediately into starting out. When you enter combat with a rat, the rat will attack and dialogue will appear to indicate this. Something like "A rat has appeared. It caused X damage." The player will now see an option to attack the rat with their weapon. More dialogue will appear to show this. "You have caused X damage to the rat."

- 1) Player initiates combat with an enemy.
- 2) Player fights the enemy until one of them dies.
- 3) Player will either defeat the enemy or respawn.

Use Case: 3

Name: Obtain Loot

Description: There will be moments in the game where the player can pick up new gear, quest items, or gold. When the player encounters something they can loot, a text dialogue describing the item will appear. The player will then get the option to either pick the item up or ignore the item.

- 1) Player comes across loot and receives dialogue about the loot.
- 2) Player decides whether or not they pick the loot up or ignore it.
- 3) Player adds loot to their inventory or simply walks away from the loot.

Use Case ID	Use Case Name	Primary Actor	Complexity	Priority
1	Select a Class	Player	Easy	1
2	Attack an Enemy	Player	Easy	1
3	Obtain Loot	Player	Easy	1

TABLE 1. USE CASE FOR SOME BASIC PLAYER INTERACTIONS

2.3. Interface Mockups

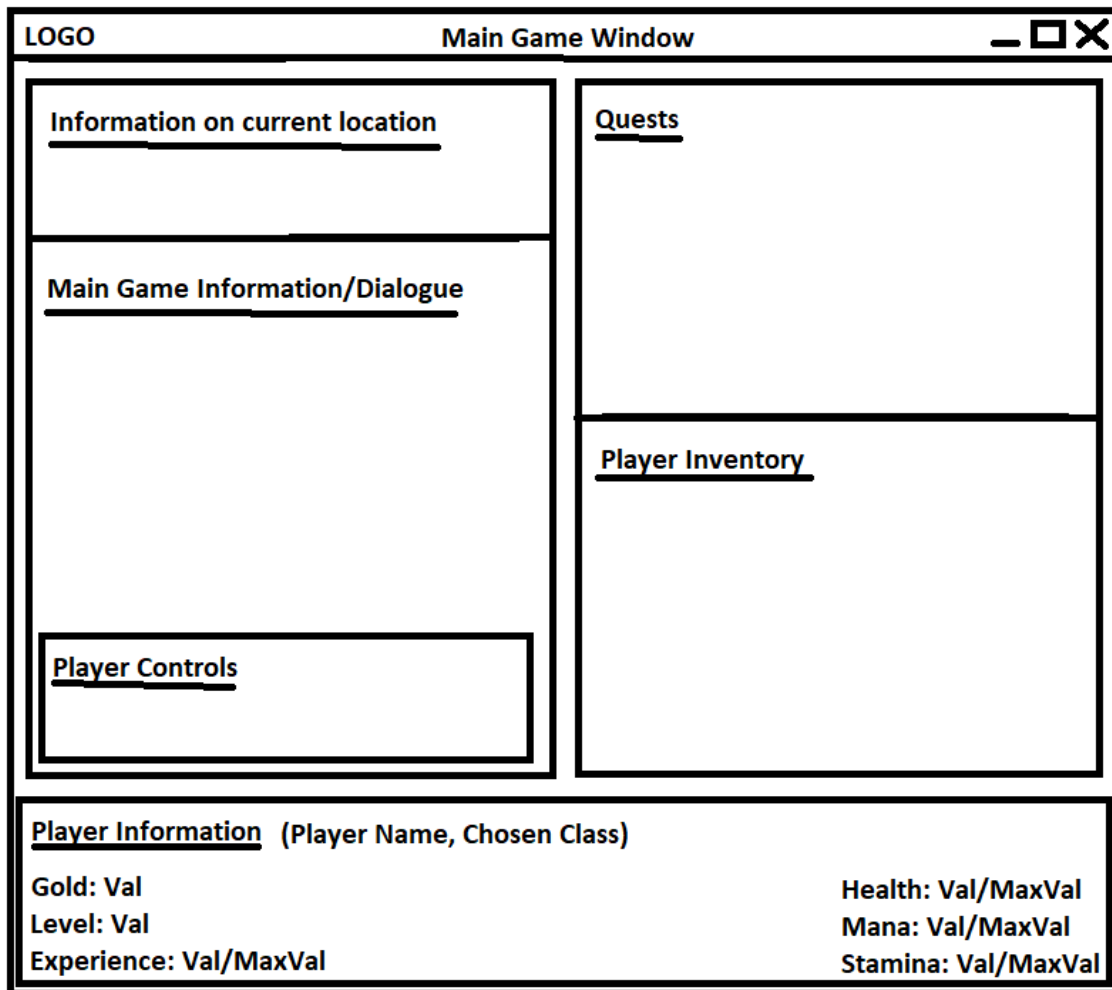


Figure 1. The base game GUI so far.