# How to Run the Al Dungeon Master Code

By: Evan Williams For CSE 434 - Course Project Due: 12/5/2024

#### 1. Prerequisites

## 1.1 Install Python

- Ensure Python (version 3.8 or higher) is installed on your machine.
- You can download Python from <a href="https://www.python.org/downloads/">https://www.python.org/downloads/</a>.

#### 1.2 Install Required Libraries

• The code may require additional Python libraries. To install them, use the following command in your terminal or command prompt:

```
Pip install openai
Pip install python-dotenv
```

## 1.3 Prepare the Code Files

- Ensure all files required for the project are in the same directory. These include:
  - The main Python script (e.g., ai\_dungeon\_master.py).
  - Any additional JSON save files needed for the game. (For new setup no additional files are needed)

## 2. Running the Code

#### 2.1 Open a Terminal or Command Prompt

 Navigate to the directory containing the ai\_dungeon\_master.py file using the cd command:

```
cd path/to/directory
```

## 2.2 Run the Python Script

• Execute the script with the following command:

```
python ai_dungeon_master.py
```

#### 2.3 Interact with the Game

- Follow the on-screen prompts to play the game.
- Use text-based commands for the appropriate actions.
  - o 1 for Move
  - o 2 for Combat
    - 1 for Attack
    - 2 for Heal
    - 3 for Flee

- o 3 for Heal
- 4 for Inventory
- o 5 for Saving State
- o 6 for Loading State
- o 7 for Quitting

## 3. Saving and Loading Game Progress

# 3.1 **Save Progress**

• During gameplay, use the save command to save your current progress. This will create a JSON file in the working directory.

## 3.2 Load Progress

• During any point of the game or restarting the game you can use the load command to load your saved progress. The game will continue from where you left off.

## 4. Troubleshooting

#### 4.1 Python Version Issues

If you encounter compatibility issues, verify your Python version with: bash

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python --version

#### 4.2 Missing Libraries

If the program fails to import a library, install it with:

bash

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pip install library\_name

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#### 4.3 File Errors

• Ensure the game is running in the directory where the JSON save files and required assets are located.

## 5. Matching Video Example

#### 5.1 User Inputted Actions

- First started the Program by running python ai\_dungeon\_master.py, in the opened project folder
- Entered in my players name of Albert
- Upon entry to room 0, I initiated combat by entering the attack action (2)
- Then I chose the attack combat action (1)
- Repeated until I defeated the enemy
- Used the inventory action (4) to see that I had 2 potions
- Used the heal action (3)
- Used heal 2 more times to heal with 2 potions and show that you cannot heal without a potion
- Moved north into a new room to show it exists and has its own description
- Ran south to the start room to show they are connected and that it has a new note in the description that the enemies were defeated
- Moved north again
- Moved west
- Saved my state
- Reloaded the game to show that it reset the data
- Loaded saved data
- Moved east
- Moved south to prove it saved the room 0 state of enemies defeated when loading save
- Moved north
- Initiated combat (2) with goblins
- Tried to flee (3)
- Took a lot of damage but eventually flee
- Move left to fight dragon
- Die
- Game Over End of Program and Demonstration

If you followed those steps you should have had a similar experience to the provided demonstration video.