MazeGame big.py

```
1.1.1
 1
 2
   Expanded version of the Maze Game with additional features
 3
 4
 5
   import json
 6
 7
   # Load game data from JSON file
 8
   def load_game_data(filename):
        with open(filename, "r") as file:
 9
10
            return json.load(file)
11
   game data = load_game_data("game_data.json")
12
   rooms = game data["rooms"]
13
   current room = game data["start"]
14
   inventory = []
15
16
   constructed items = {"Magic Staff": ["Crystal Shard", "Wooden Stick", "Enchanted
   Core"]}
   enemies = {"Dark Sorcerer": "Magic Staff"} # Enemy that can be defeated with a
17
   specific item
18
19
   def display room():
20
        print(f"You appear to be in the {current room}")
        print(rooms[current room].get("Desc", "No description available."))
21
22
23
        if "Item" in rooms[current room]:
            print(f"There is a {rooms[current room]['Item']} in the room")
24
25
       else:
            print("The room is empty")
26
27
        if "Enemy" in rooms[current room]:
28
29
            print(f"A {rooms[current room]['Enemy']} is here! Be careful!")
30
31
        if inventory:
32
            print(f"You have {len(inventory)} items: {', '.join(inventory)}")
       else:
33
            print("You have no items!")
34
35
   def handle movement(direction):
36
37
        global current room
38
        if direction in rooms[current room]:
39
            current room = rooms[current room][direction]
            print(f"You moved {direction}")
40
41
       else:
            print("You can't go that way.")
42
43
   def handle item interaction(action, item):
44
45
        global current room
        if action == "Get":
46
```

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if "Item" in rooms[current room] and rooms[current room]["Item"].lower() ==
47
    item.lower():
                if item not in inventory:
48
49
                    inventory.append(item)
50
                    del rooms[current room]["Item"]
                    print(f"{item} retrieved!")
51
52
                else:
53
                    print(f"You already have the {item}.")
54
            else:
55
                print(f"Can't find {item}.")
        elif action == "Drop":
56
57
            if item in inventory:
58
                inventory.remove(item)
59
                rooms[current room]["Item"] = item
                print(f"You dropped {item}.")
60
61
            else:
62
                print(f"You don't have {item}.")
        elif action == "Craft":
63
            for crafted item, components in constructed items.items():
64
                if item == crafted item and all(comp in inventory for comp in components):
65
                    for comp in components:
66
                        inventory.remove(comp)
67
68
                    inventory.append(crafted item)
69
                    print(f"You have successfully crafted {crafted item}!")
70
                    return
71
            print(f"You don't have the necessary components to craft {item}.")
72
73
   def handle combat():
74
        global current room
        if "Enemy" in rooms[current room]:
75
            enemy = rooms[current room]["Enemy"]
76
            if enemy in enemies and enemies[enemy] in inventory:
77
                print(f"You defeated the {enemy} with your {enemies[enemy]}!")
78
                del rooms[current room]["Enemy"]
79
            else:
80
                print(f"The {enemy} attacks! You need a {enemies.get(enemy, 'proper
81
   weapon')} to defeat it!")
82
   def main():
83
        global current room
84
        while True:
85
86
            display room()
87
            if "Enemy" in rooms[current room]:
                handle combat()
88
89
            user input = input("Enter command\n").strip().split(" ")
90
91
92
            if not user input:
93
                continue
94
```

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