Dungeon Dudes

Test Plan

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This Test Plan is documented to described the scope and approach for all the testing activities of the project.

Scope

The following files are to be tested:

- 1. ranger.py
- 2. ranger_item_generator.py

Test Setup

```
def setUp:
    self.character = Ranger("Ranger")
```

Test Cases

ranger.py

Contains attributes and methods to create a Ranger Class Object Customer object requires a 'name' of the character from the user

Methods

```
def test_base_stat:
    'Checks to see if the base stat is correct'
Ranger level 1 base state:
    - Hit point = 90
    - Strength = 7
    - Agility = 14
    - Intelligence = 5
    - Special (focus) = 2
All assert statments should pass
```

```
def test_active_skill:
    '''Test to check if the Ranger learn skills correctly
       when leveling up'''
       - skills_list = list of all available skills
            at different levels
       - skills_dict = dictionary of all available skills
            at different levels
       Check if only learned skills exist in the skills_list
       and if the Ranger learned a new skill, check if the
       skill exists in the skills_dict
    All assert statments should pass
def test_attack:
    '''Test to check if the Ranger and companions attack corerectl'''
        combat = self.character.modify_damage(damage)
            - modify_damage returns a list of tuples to create
            individual CombatActions used during monster encounter
            - The lenght of the combat action should match the number
            of actions
        If No companion is summoned:
            One combat action is done
        If 1 companion is summoned:
            There should two combat actions, one for the ranger and
            one for the companion
        If 2 companions are summoned:
            There should be three combat actions
        If steel trap is activated:
            There should be 4 combat actions, since steele trap
            does damage every turn
    All assert statments should pass
def test_equipment_attack:
    ''', Check if the weapon has the correct weapon modifier''',
    weapon = self.character._weapon
    if weapon has a "Wrath" or "Defense" in the name:
        The moidify should exist and the amount should be
        less or equal to the level + 10
    All assert statments should pass
def test_equipment_armor:
    ''', Check if the armor has correct Elemental Resist'''
    armor = self.charater._armor
    Ranger armor should have 3 different types of elemental resist
        and all three should add up to (level * 3) + 30
    All assert statments should pass
```

```
def test_equipment_accessory:
    '''Check if the accessory has the correct element affinity''
    accessory = self.character._accessory
    Ranger accessory should have one elemental affinity
        between 'Ice', 'Fire', or 'Lightning'
All assert statments should pass
```

How To Build

To run the automatic unit test:

 \bullet Move the test source file to the top level directory and run: python3 -m unittest discover test

All of the Test Cases should pass without error or failures.