+ movePet(name : String)

Test plan for Milestone 3

Testing the Model

| Testing the Construction of the Pet | Input | Expected |
|--|-------------------------------|---|
| Constructing a valid pet | PetImpl("My Pet", "Space1") | Pet added to the game. Pet Details: Name: My Pet Position: Space1 |
| Constructing a pet with invalid name | PetImpl("", "Space1") | IllegalArgumentException |
| Constructing a pet with invalid start position | PetImpl("My Pet", "No space") | IllegalArgumentException |

| Testing the move pet | Input | Expected |
|--------------------------|-------------------|-------------------------|
| Player moving a pet to a | movePet("Space1") | Before: |
| valid space | | Space Info Space1: |
| | | Name: Space1 |
| | | Items: 2 [Item1, Item2] |
| | | Players: 1 [Player1] |
| | | Neighbours: 2 [Space1, |
| | | Space2] |
| | | Pet Present : Yes |
| | | Space info Space2: |
| | | Name : Space2 |
| | | Items: 2 [Item1, Item2] |
| | | Players: 1 [Player3] |
| | | Neighbours: 2 [Space1, |
| | | Space2] |
| | | Pet Present : No |
| | | After: |
| | | Space Info Space1: |
| | | Name : Space1 |
| | | Items: 2 [Item1, Item2] |
| | | Players: 1 [Player1] |
| | | Neighbours: 2 [Space1, |
| | | Space2] |
| | | Pet Present : No |
| | | Space info Space2: |
| | | Name : Space2 |
| | | Items: 2 [Item1, Item2] |
| | | Players: 1 [Player3] |

| | | Neighbours: 2 [Space1, Space2] Pet Present: Yes |
|---|---------------------|--|
| Player moving a pet to a space not in the world | movePet("No space") | IllegalArgumentException |
| Computer player moving a pet to a valid space | movePet("Space1") | Before: Space Info Space1: Name: Space1 Items: 2 [Item1, Item2] Players: 1 [Player1] Neighbours: 2 [Space1, Space2] Pet Present: Yes Space info Space2: Name: Space2 Items: 2 [Item1, Item2] Players: 1 [Player3] Neighbours: 2 [Space1, Space2] Pet Present: No |
| | | After: Space Info Space1: Name: Space1 Items: 2 [Item1, Item2] Players: 1 [Player1] Neighbours: 2 [Space1, Space2] Pet Present: No Space info Space2: Name: Space2 Items: 2 [Item1, Item2] Players: 1 [Player3] Neighbours: 2 [Space1, Space2] Pet Present: Yes |
| Pet moving around after every turn | movePet("Space1") | Pet Position: Space2 After A Turn Pet Position: Space3 |
| Pet returning to the first space after completing one cycle | movePet("Space1") | Before: Pet Position : Space10 After: |
| | | Pet Position : Space1 |

| | Testing the attack target | Input | Expected |
|--|---------------------------|-------|----------|
|--|---------------------------|-------|----------|

| Player attacking a target | attack("Item1") | Before: |
|------------------------------|-----------------|--------------------|
| with an item | , | Target Health : 50 |
| | | Player Items : 2 |
| | | |
| | | After: |
| | | Target Health : 40 |
| | | Player Items : 1 |
| Computer Player attacking a | attack("Item1") | Before: |
| target with an item | , | Target Health : 50 |
| | | Player Items : 2 |
| | | rayer terms . 2 |
| | | After: |
| | | Target Health : 40 |
| | | Player Items : 1 |
| Player poking the target | attack() | Before: |
| | | Target Health : 50 |
| | | After: |
| | | Target Health : 49 |
| Player attacking a target | attack("Item1") | Before: |
| with a player in | , , | Target Health : 50 |
| neighbouring space | | Player Items : 2 |
| | | , |
| | | After: |
| | | Target Health : 50 |
| | | Player Items : 1 |
| Player attacking a target | attack("Item1") | Before: |
| when target not in the | , , | Target Health : 50 |
| current space | | Player Items : 2 |
| · | | , |
| | | After: |
| | | Target Health : 50 |
| | | Player Items : 1 |
| Player attacking target with | attack("Item1") | Before: |
| a player in current space | , , | Target Health : 50 |
| , , | | Player Items : 2 |
| | | , |
| | | After: |
| | | Target Health : 50 |
| | | Player Items : 1 |
| | l . | ., |

| Testing the Look Around | Input | Expected |
|--------------------------------|--------------------|------------------------------|
| Look around with multiple | lookAround invoked | Current Space : |
| players and items in the | | Space1 |
| neighbours | | Items: 2 [Item1, Item2] |
| | | Players : Player1, Player2 |
| | | Neighbours: |
| | | Space2 |
| | | Items: 2 [Item3, Item4] |
| | | Players : Player4, Player3 |
| | | Space3 |
| | | Items: 2 [Item5, Item6] |
| | | Players : Player5, Player6 |
| Look around when a pet | lookAround invoked | Current Space : |
| occupies a neighbour | | Space1 |
| | | Items: 2 [Item1, Item2] |
| | | Players : Player1, Player2 |
| | | Neighbours: |
| | | Space2 |
| | | Items : 2 [Item3, Item4] |
| | | Players : Player4, Player3 |
| | | Display Space Info of Space3 |
| | | Name: Space1 |
| | | Items: 2 [Item1, Item2] |
| | | Players : 1 [Player1] |
| | | Neighbours : 2 [Space1, |
| | | Space2] |
| | | Pet Present : Yes |
| Look around when no neighbours | lookAround invoked | Current Space : Space1 |
| Tielgiloodi 3 | | Items : 2 [Item1, Item2] |
| | | Players : Player1, Player2 |
| | | riayers . riayer1, riayer2 |
| | | Neighbours: |
| Look around when no | lookAround invoked | Current Space : |
| players in the space | | Space1 |
| | | Items: 2 [Item1, Item2] |
| | | Players : 0 |
| | | Neighbours: |
| | | Space2 |
| | | Items : 2 [Item3, Item4] |
| | | Players : Player4, Player3 |

| | | Space3 Items : 2 [Item5, Item6] Players : Player5, Player6 |
|--|--------------------|---|
| Look around when no items in the space | lookAround invoked | Current Space: Space1 Items: 0 Players: 1 [Player1] Neighbours: Space2 Items: 0 Players: Player4, Player3 Space3 Items: 0 Players: Player5, Player6 |

| Testing the game over condition | Input | Expected |
|---|---|---------------------------------|
| Games is over when a normal player kills the target | Players attacks the target | Game Over Winner : PlayerA |
| Games is over when a computer player kills the target | Computer player attacks the target | Game Over Winner : Computer1 |
| Game tie after max turns | Players takes and turns and number of turns exhaust | Game is tied |
| Player attempting to play after game over | Player tries to send command | IllegalStateException |

| Testing the display | Input | Expected |
|------------------------|-----------------------------------|-------------------------|
| information of space | | |
| Space information when | displaySpaceInformation("Space1") | Name : Space1 |
| there is a pet | | Items: 2 [Item1, Item2] |
| | | Players: 1 [Player1] |
| | | Neighbours: 2 [Space1, |
| | | Space2] |
| | | Pet Present : Yes |
| Space information when | displaySpaceInformation("Space1") | Name: Space1 |
| there is no pet | | Items: 2 [Item1, Item2] |
| | | Players: 1 [Player1] |

| Neighbours : 2 [Spac | :e1, |
|----------------------|------|
| Space2] | |
| Pet Present : No | |

Testing the Controller

| Testing the command invocation | Input | Expected |
|--------------------------------|----------------------------|-----------------------------|
| Player moving a pet | Player invokes move | "Pet moved to Space1" |
| | command and enters the | |
| | space name | |
| Player attacking the target | Player invokes the attack | "Attacking the target using |
| | command and enters the | an item" |
| Player using the look around | Player invokes the look | "Looking around the space |
| command | around command | Space Name, items, players" |
| Player using the display | Player invokes the display | "Displaying Space |
| space information | space info command and | information : name, items, |
| command | enters the space name | players" |
| Player winning a game | Player attacks the target | "Player A won the game" |
| | and wins the game | |