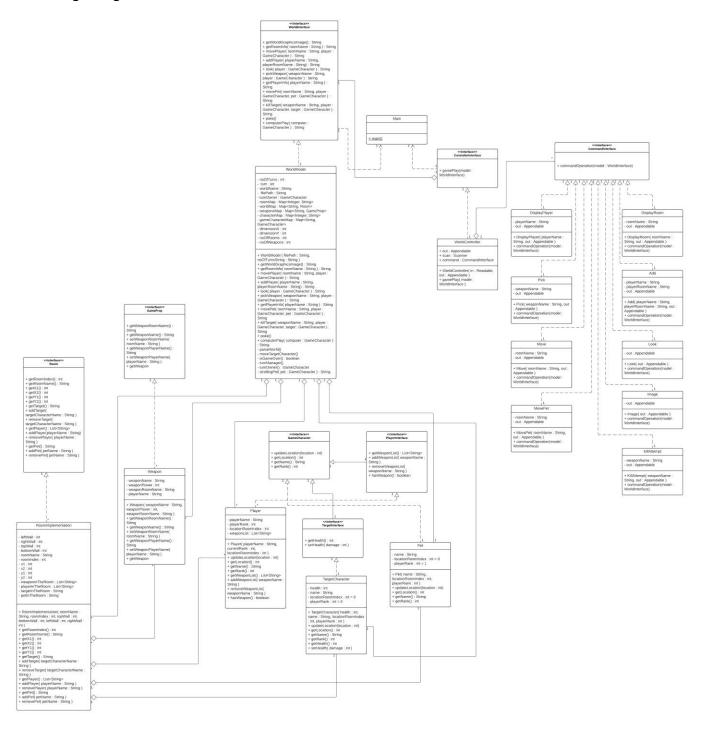
Milestone 3 Preliminary Design

Shreyas Terdalkar

UML Design Diagram:



Testing Plan:

1. Controller Testing using Mock Model

| Test | Input | Expected Value |
|--|-----------------------------|--|
| Testing addPlayer() method of the model being called by the controller for adding human controlled player | ADDPLAYER Shreyas Armory | INPUT : Player: Shreyas Room: Armory OUTPUT : 12345678 |
| Testing displayRoomInfo() method of the model being called by the controller for displaying room details of the specified room | DISPLAYROOM Armory | INPUT : Room: Armory OUTPUT : 12345678 |
| Testing displayPlayerInfo() method of the model being called by the controller for displaying player details of the specified player | DISPLAYPLAYER Shreyas | INPUT : Player : Shreyas OUTPUT : 12345678 |
| Testing getWorldGraphicsImage() method of the model being called by the controller for displaying graphical representation of the world | IMAGE | INPUT: Image method called OUTPUT: 12345678 |
| Testing movePlayer() method of the model being called by the controller for moving player from its current to room to its specified neighbour room | MOVE Billiard Room | INPUT : Player : Shreyas Room: Billiard Room OUTPUT : 12345678 |
| Testing pickWeapon() method of the model being called by the controller for picking available weapon from its current room | PICK Billiard Cue | INPUT : Player : Shreyas Weapon : Billiard Cue OUTPUT : 12345678 |
| Testing Look() method of the model being called by the controller for looking around its current room | LOOK | INPUT : Player : Shreyas Room: Armory OUTPUT : 12345678 |
| Testing movePet() method of the model being called by the controller for moving the pet from current room to the specified room | MOVEPET Dining Hall | INPUT: Player: Shreyas Character: Fortune Room: Dining Hall OUTPUT: 12345678 |

| Testing killTarget() method of the model being called by the controller for attempting to kill the Target using specified weapon | KILLTARGET Billiard Cue | INPUT : Player : Shreyas Weapon : Billiard Cue OUTPUT : 12345678 |
|--|-------------------------|---|
| Testing poke() method of the model being called by the controller for attempting to kill the Target without any weapon | POKE | INPUT : Player : Shreyas OUTPUT : 12345678 |
| Testing computerPlay() method of the model being called by the controller to give the computer player a turn to play | NA | INPUT : Computer is playing OUTPUT : 12345678 |

2. Model Testing

| Test | Input | Expected Value |
|-------------------------|-------|--|
| Looking around | | |
| | LOOK | Shreyas's Turn : |
| | | Player Shreyas is in Dining Hall |
| Test for no weapons in | | Neighbour rooms : [Kitchen, Armory, Tennessee Room, |
| the current room | | Drawing Room] |
| | LOOK | Shreyas's Turn : |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| Test for one weapon in | | Neighbour rooms: [Dining Hall, Tennessee Room, ServantS' |
| the current room | | Quarters] |
| | LOOK | Shreyas's Turn: |
| | | Player Shreyas is in Kitchen |
| Test for multiple | | Weapon/s in the room : Sharp Knife, Crepe Pan |
| weapons in the current | | Neighbour rooms: [Dining Hall, Tennessee Room, ServantS' |
| room | | Quarters] |
| | LOOK | Shreyas's Turn : |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| | | Other character/s in the room: Professor |
| Test for another player | | Neighbour rooms: [Dining Hall, Tennessee Room, ServantS' |
| in the current room | | Quarters] |
| | LOOK | Shreyas's Turn : |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| Test for multiple | | Other character/s in the room : Professor, Alex |
| players in the current | | Neighbour rooms: [Dining Hall, Tennessee Room, ServantS' |
| room | | Quarters] |

| | LOOK | Shreyas's Turn: |
|---------------------------------------|------|--|
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| Test for computer | | Other character/s in the room : Professor, Computer |
| player in the current | | Neighbour rooms: [Dining Hall, Tennessee Room, ServantS' |
| room | | Quarters] |
| | LOOK | Shreyas's Turn : |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| | | Other character/s in the room : Professor, Computer |
| | | Neighbour rooms: [Dining Hall, Tennessee Room, Servants' |
| Test for another player | | Quarters] |
| in the neighbour room | | Alex is in Dining Hall |
| | LOOK | Shreyas's Turn : |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| | | Other character/s in the room : Computer |
| | | Neighbour rooms: [Dining Hall, Tennessee Room, Servants' |
| Test for multiple | | Quarters] |
| players in the | | Alex is in Dining Hall |
| neighbour room | | Professor is in Servants' Quarters |
| | LOOK | Shreyas's Turn: |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| | | Neighbour rooms: [Dining Hall, Tennessee Room, Servants' |
| | | Quarters] |
| Test for computer | | Alex is in Dining Hall |
| player in the neighbour | | Computer is in Tennessee Room |
| room | | Professor is in Servants' Quarters |
| | LOOK | Shreyas's Turn: |
| Test for no neighbour | | Player Shreyas is in Plaza |
| rooms | | Neighbour rooms : None |
| | LOOK | S |
| | | Shreyas's Turn: |
| | | Player Shreyas is in Piazza |
| | | Neighbour rooms : [Carriage House] |
| Tark far and matable | | Alex is in Dining Hall |
| Test for one neighbour | | Computer is in Tennessee Room |
| room | 100% | Professor is in Servants' Quarters |
| | LOOK | Shreyas's Turn: |
| | | Player Shreyas is in Kitchen Waanan (c in the room : Sharp Knife |
| | | Weapon/s in the room: Sharp Knife Neighbour rooms: [Dining Hall, Tennessee Room, Servants' |
| | | Quarters] |
| Test for neighbour | | Alex is in Dining Hall |
| room with multiple | | Computer is in Tennessee Room |
| · · · · · · · · · · · · · · · · · · · | | Professor is in Servants' Quarters |
| weapons | L | Trolessor is ill servants Quarters |

| | LOOK | Chrovac's Turn |
|------------------------|----------|--|
| | LOOK | Shreyas's Turn: |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room: Sharp Knife |
| | | Character/s in the room: Target |
| | | Neighbour rooms: [Dining Hall, Tennessee Room, Servants' |
| | | Quarters] |
| | | Alex is in Dining Hall |
| Test for Target in the | | Computer is in Tennessee Room |
| current room | | Professor is in Servants' Quarters |
| | LOOK | Shreyas's Turn : |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| | | Neighbour rooms: [Dining Hall, Tennessee Room, Servants' |
| | | Quarters] |
| | | Alex is in Dining Hall |
| Test for Target in the | | Target is in Tennessee Room |
| neighbour room | | Professor is in Servants' Quarters |
| _ | LOOK | Shreyas's Turn : |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| | | Character/s in the room : Fortune |
| | | Neighbour rooms: [Dining Hall, Tennessee Room, Servants' |
| | | Quarters] |
| | | Alex is in Dining Hall |
| Test for pet in the | | Computer is in Tennessee Room |
| current room | | Professor is in Servants' Quarters |
| - Carrent Foom | LOOK | Troicessor is in servants quarters |
| | 2001 | Shreyas's Turn: |
| | | Player Shreyas is in Kitchen |
| | | Weapon/s in the room : Sharp Knife |
| | | Neighbour rooms : [Dining Hall, Tennessee Room] |
| Test for pet in the | | Alex is in Dining Hall |
| neighbour room | | Target is in Tennessee Room |
| Moving pet | | - |
| J G F - 2 | MOVEPET | |
| | Dining | |
| | Hall | |
| | DISPLAYR | Pet moved to Dining Hall. |
| | OOM | Room Name : Dining Hall |
| Test for moving pet to | Dining | Neighbors : Trophy Room, Kitchen, Armory |
| the neighbour room | Hall | Character/s in the room: Professor, Fortune |
| | | charactery's in the room. I rolessor, rortuite |
| Test for moving pet to | MOVEPET | |
| non neighbour room | Piazza | Invalid input, please re-enter |
| Killing Target | 1 10220 | mvana mpac, picase re enter |

| Test for attempting successful damage to the target using a weapon that the player had by incrementing turn to the next player and the target's health being reduced and the weapon getting removed from the game | KILL Billiard Cue DISPLAYR OOM Billiard Room DISPLAYP LAYER Shreyas | Shreyas's turn: KILL Billiard Cue Damage successful! Doctor Lucky's health: 47 Professor's Turn: DISPLAYROOM Billiard Room Name of the room: Billiard Room Neighbours of the room: [Dining Hall, Drawing Room, Armory] Weapon/s in the room: None Player/s in the room: [Shreyas] Professor's Turn: DISPLAYPLAYER Shreyas Name of the player: Shreyas Location of the player: Billiard Room Player has weapon/s: None |
|---|---|--|
| Unsuccessful damage because of another player seeing from the neighbour room, turn being incremented, target's health not getting reduced, but weapon being removed from the world | KILL Billiard Cue DISPLAYR OOM Billiard Room DISPLAYP LAYER Shreyas | Shreyas's turn: KILL Billiard Cue Damage unsuccessful! Doctor Lucky's health: 50 Professor's Turn: DISPLAYROOM Billiard Room Name of the room: Billiard Room Neighbours of the room: [Dining Hall, Drawing Room, Armory] Professor is in Armory Weapon/s in the room: None Player/s in the room: [Shreyas] Professor's Turn: DISPLAYPLAYER Shreyas Name of the player: Shreyas Location of the player: Billiard Room Player has weapon/s: Billiard Cue |

| Unsuccessful damage because the player doesnt have the specified weapon, turn not being incremented, target's health not getting reduced, weapon not being removed from the world, user asked for new input | KILL Sharp Knife DISPLAYR OOM Billiard Room DISPLAYP LAYER Shreyas | Shreyas's turn: KILL Billiard Cue Incorrect input, please re-enter Shreyas's Turn: DISPLAYROOM Billiard Room Name of the room: Billiard Room Neighbours of the room: [Dining Hall, Drawing Room, Armory] Weapon/s in the room: None Player/s in the room: [Shreyas] Shreyas's Turn: DISPLAYPLAYER Shreyas Name of the player: Shreyas Location of the player: Billiard Room Player has weapon/s: Billiard Cue |
|---|---|--|
| Unsuccessful damage because of the another player seeing from the same room, turn being incremented, target's health not getting reduced, but weapon being removed from the world | KILL Billiard Cue DISPLAYR OOM Billiard Room DISPLAYP LAYER Shreyas | Shreyas's turn: KILL Billiard Cue Damage unsuccessful! Doctor Lucky's health: 50 Professor's Turn: DISPLAYROOM Billiard Room Name of the room: Billiard Room Neighbours of the room: [Dining Hall, Drawing Room, Armory] Professor is in Billiard Room Weapon/s in the room: None Player/s in the room: [Shreyas, Professor] Professor's Turn: DISPLAYPLAYER Shreyas Name of the player: Shreyas Location of the player: Billiard Room Player has weapon/s: Billiard Cue |

| Unsuccessful damage because the player is not in the same space as the target, turn not being incremented, target's health not getting reduced, weapon not being removed from the world, user asked for new input | KILL Billiard Cue DISPLAYR OOM Billiard Room DISPLAYP LAYER Shreyas | Shreyas's turn: KILL Billiard Cue Target is not in Billiard Room Incorrect input, please re-enter Shreyas's Turn: DISPLAYROOM Billiard Room Name of the room : Billiard Room Neighbours of the room : [Dining Hall, Drawing Room, Armory] Weapon/s in the room : None Player/s in the room : [Shreyas] Shreyas's Turn: DISPLAYPLAYER Shreyas Name of the player : Shreyas Location of the player : Billiard Room Player has weapon/s : Billiard Cue |
|---|---|---|
| Successful damage being done by the computer player by incrementing turn to the next player and the target's health being reduced and the weapon getting removed from the game | NA | Computer's turn: Damage successful! Doctor Lucky's health: 47 Professor's Turn: DISPLAYROOM Billiard Room Name of the room: Billiard Room Neighbours of the room: [Dining Hall, Drawing Room, Armory] Weapon/s in the room: None Player/s in the room: [Computer] Professor's Turn: DISPLAYPLAYER Computer Name of the player: Computer Location of the player: Billiard Room Player has weapon/s: None |

| Successful damage by poking in the eye by incrementing turn to the next player and the target's health being reduced | POKE | Shreyas's turn: POKE Damage successful! Doctor Lucky's health: 49 Professor's Turn: DISPLAYROOM Billiard Room Name of the room: Billiard Room Neighbours of the room: [Dining Hall, Drawing Room, Armory] Weapon/s in the room: None Player/s in the room: [Shreyas] Professor's Turn: DISPLAYPLAYER Shreyas Name of the player: Shreyas Location of the player: Billiard Room Player has weapon/s: None |
|--|------------------------------------|--|
| Game over | 1 | . , |
| After enough damages, target's health becomes zero, game ends | POKE | Target is dead. Game Over! |
| Maximum no of turns limit reached | LOOK | Maximum no of turns reached. Game Over! |
| Additions to Milestone 2 | 2 requiremer | nts in Milestone 2 |
| Adding Target's pet during parsing of the world specification and creation of the world at room 0 along with the target | DISPLAYR OOM Armory | Name of the room : Armory Neighbours of the room : [Dining Hall, Drawing Room, Billiard Room] Weapon/s in the room : [Revolver] Character/s in the room : Target, Fortune |
| Adding player displays information of their current room details and target information | ADDPLAY ER Shreyas Armory | Name of the room : Armory Neighbours of the room : [Dining Hall, Drawing Room, Billiard Room] Weapon/s in the room : [Revolver] Target is in Armory Character/s in the room : Shreyas , Doctor lucky, Fortune |
| Adding computer player displays information of their current room details and target information | ADDCOM PUTER Armory | Name of the room : Armory Neighbours of the room : [Dining Hall, Drawing Room, Billiard Room] Weapon/s in the room : [Revolver] Target is in Armory Character/s in the room : Computer , Doctor lucky, Fortune |
| Information about the Target moving in the world is being | PICK Revolver | PICK Revolver Shreyas has picked Revolver Target moved to Billiard Room Computer's turn: |

| displayed at the end of every turn to the user | | |
|--|------------------------------|---|
| Information of pet moving in the world using DFS algorithm after every turn | PICK Revolver | PICK Revolver Shreyas has picked Revolver Target moved to Billiard Room Fortune moved to Carriage House Computer's turn: |
| Milestone 2 tests | | |
| DISPLAY ROOM COMMA Display information abo | | d space in the world |
| Valid Test with all fields available | DISPLAY BILLIARD ROOM | ROOM NAME : BILLIARD ROOM WEAPON IN THE ROOM: BILLIARD CUE NEIGHBOURS: TROPHY ROOM, DINING HALL, ARMORY PEOPLE IN THE ROOM: DOCTOR LUCKY, PLAYERONE |
| Invalid Test for room | DISPLAY | |
| not in the World | PLAZA | IllegalArgumentException |
| Test for room having no weapon | DISPLAY SERVANT' S QUARTER S | ROOM NAME: SERVANT'S QUARTERS WEAPON IN THE ROOM: NONE NEIGHBOURS: TROPHY ROOM, DINING HALL, ARMORY PEOPLE IN THE ROOM: DOCTOR LUCKY, PLAYERONE |
| Test for room having | DISPLAY | |
| no neighbours | PLAZA | IllegalArgumentException |
| Test for room having no characters | DISPLAY FOYER | ROOM NAME: FOYER WEAPON IN THE ROOM: REVOLVER NEIGHBOURS: TENNESSEE ROOM, DINING HALL, ARMORY PEOPLE IN THE ROOM: NONE |
| Test for room having only target character | DISPLAY LILAC ROOM | ROOM NAME: LILAC ROOM WEAPON IN THE ROOM: SHARP KNIFE NEIGHBOURS: TROPHY ROOM, DINING HALL, FOYER PEOPLE IN THE ROOM: DOCTOR LUCKY |
| Test for room having only player | DISPLAY LIBRARY | ROOM NAME: LIBRARY WEAPON IN THE ROOM: CHAIN SAW NEIGHBOURS: TROPHY ROOM, DINING HALL PEOPLE IN THE ROOM: PLAYERONE |
| CREATE IMAGE COMMA | | |
| Create a graphical representation of the world map and provide the ability to save the graphical representation to a file as a PNG file. | | |
| Valid Test for graphics | mansion.t | |
| image | xt | image.png |
| Invalid Test for image | mansion.t | 5 . 5 |
| file not found | xt | FileNotFoundException |

| ADD PLAYER COMMAND | ٠. | |
|--|----------------|--|
| Add a human-controlled | | a gama |
| Add a numan-controlled | T | e game. |
| \/alial Taak fa u awaatiu a | ADD | |
| Valid Test for creating | PLAYER | DI AVED CAIE ADDED |
| player | ONE | PLAYER ONE ADDED |
| ADD COMPUTERPLAYER | | |
| Add a computer-control | | the game. |
| | ADD | |
| | COMPUT | |
| Valid Test for creating | ER | |
| computer player | PLAYER | COMPUTER PLAYER ADDED |
| MOVE COMMAND: | | |
| Move a player. | <u> </u> | |
| | MOVE | |
| | ONE | |
| Valid Test for moving | LILAC | |
| player | ROOM | LOCATION : LILAC ROOM |
| Valid Test for computer | | |
| player moving | | |
| automatically on its | | |
| turn | NA | LOCATION : LIBRARY |
| | MOVE | |
| Invalid Test for moving | ONE | |
| to non neighbour room | FOYER | IllegalArgumentException |
| PICK COMMAND: | | |
| Allow a player to pick up | an item. | |
| Valid Test for picking | PICK | |
| item from current | CHAIN | |
| room | SAW | WEAPON TAKEN : CHAINSAW |
| | PICK | |
| Invalid Test for room | BILLIARD | |
| with no item | CUE | IllegalArgumentException |
| | PICK | |
| Invalid Test for item | SHARP | |
| already picked | KNIFE | IllegalArgumentException |
| DISPLAY PLAYER COMM | AND: | |
| Display a description of | a specific pla | yer. |
| | DISPLAY | |
| Valid Test for all fields | PLAYER | PLAYER : ONE LOCATION : BILLIARD ROOM WEAPON TAKEN : |
| present | ONE | BILLIARD CUE |
| | DISPLAY | |
| Valid Test for player | PLAYER | PLAYER : ONE LOCATION : BILLIARD ROOM WEAPON TAKEN : |
| with no weapon | ONE | NONE |
| | DISPLAY | |
| Invalid Test for player | PLAYER | |
| not in the World | HERO | IllegalArgumentException |
| Limit the maximum num | 1 | |
| Entire the maximum number of turns allowed | | |

| Valid Test for no of | | |
|-------------------------|-----------|--|
| turns exceeding limit | LOOK | GAME IS OVER! TURNS LIMIT REACHED |
| | LOOK | GAIVIE IS OVER! TORNS LIIVITI REACHED |
| Others | | |
| Valid Test for input | | |
| being readable and | | |
| output being | mansion.t | MELCOME TO DOCTOR LUCIVIC MORER |
| appendable | xt | WELCOME TO DOCTOR LUCKY'S WORLD |
| Invalid Test for input | | |
| being readable and | | |
| output being | mansion.t | |
| appendable | xt | IllegalStateException |
| | | Tests for Model |
| General | r | |
| | model == | |
| Model object is null | null | IllegalArgumentException |
| Model object is | mansion.t | |
| readable | xt | WELCOME TO DOCTOR LUCKY'S WORLD |
| Parsing World | mansion.t | |
| specification correctly | xt | WELCOME TO DOCTOR LUCKY'S WORLD |
| | mansion.t | |
| Overlapping spaces | xt | IllegalArgumentException |
| Rooms with same | mansion.t | |
| names | xt | IllegalArgumentException |
| Weapons with same | mansion.t | |
| name | xt | IllegalArgumentException |
| Test getWorldGraphic | csImage() | |
| Valid Test for graphics | mansion.t | |
| image | xt | image.png |
| Invalid Test for image | mansion.t | |
| file not found | xt | FileNotFoundException |
| Test getNeighbour() | | |
| 0 0 17 | LANCAST | |
| Top Left Room | ER ROOM | ["LILAC ROOM","SERVANTS' QUARTERS"] |
| Top Right Room | NURSERY | ["MASTER SUITE","LIBRARY"] |
| 100 118111100111 | CARRIAG | [Whotekoone) Elokuki] |
| Bottom Left Room | E HOUSE | ["WINTER GARDEN"] |
| 233333 | GREEN | |
| Botton Right Room | HOUSE | ["HEDGE MAZE"] |
| 0 : 55 | | ["TENNESSEE ROOM","PARLOR","KITCHEN","WINE |
| | DINING | CELLAR", "DRAWING ROOM", "ARMORY", "BILLIARD |
| Middle Room | HALL | ROOM","TROPHY ROOM"] |
| | | ["SERVANTS' QUARTERS","DINING |
| Middle Room | PARLOR | ROOM","KITCHEN","TENNESSEE ROOM"] |
| Incorrect Input Room | ATTIC | IllegalArgumentException |
| Test getRoomInfo() | <u> </u> | |
| | | |

| | | "ROOM NAME : BILLIARD ROOM, WEAPON IN THE ROOM : |
|----------------------------|-----------|--|
| | BILLIARD | BILLIARD CUE, NEIGHBOURS : TROPHY ROOM, DINING HALL, |
| Room 1 | ROOM | ARMORY PEOPLE IN THE ROOM : DOCTOR LUCKY" |
| | | "ROOM NAME: FOYER, WEAPON IN THE ROOM: NO WEAPON |
| | | FOUND, NEIGHBOURS : DRAWING ROOM, PIAZZA PEOPLE IN |
| Room 2 | FOYER | THE ROOM : PLAYERONE" |
| | CLINIC | |
| Incorrect Input Room | ROOM | IllegalArgumentException |
| | | ROOM NAME : BILLIARD ROOM |
| | DISPLAY | WEAPON IN THE ROOM: BILLIARD CUE |
| Valid Test with all fields | BILLIARD | NEIGHBOURS: TROPHY ROOM, DINING HALL, ARMORY |
| available | ROOM | PEOPLE IN THE ROOM: DOCTOR LUCKY, PLAYERONE |
| Invalid Test for room | DISPLAY | |
| not in the World | PLAZA | IllegalArgumentException |
| | DISPLAY | |
| | SERVANT' | ROOM NAME : SERVANT'S QUARTERS |
| | S | WEAPON IN THE ROOM: NONE |
| Test for room having | QUARTER | NEIGHBOURS: TROPHY ROOM, DINING HALL, ARMORY |
| no weapon | S | PEOPLE IN THE ROOM: DOCTOR LUCKY, PLAYERONE |
| Test for room having | DISPLAY | |
| no neighbours | PLAZA | IllegalArgumentException |
| | | ROOM NAME : FOYER |
| | | WEAPON IN THE ROOM: REVOLVER |
| Test for room having | DISPLAY | NEIGHBOURS: TENNESSEE ROOM, DINING HALL, ARMORY |
| no characters | FOYER | PEOPLE IN THE ROOM: NONE |
| | | ROOM NAME : LILAC ROOM |
| | DISPLAY | WEAPON IN THE ROOM: SHARP KNIFE |
| Test for room having | LILAC | NEIGHBOURS: TROPHY ROOM, DINING HALL, FOYER |
| only target character | ROOM | PEOPLE IN THE ROOM: DOCTOR LUCKY |
| , 5 | | |
| | | ROOM NAME : LIBRARY |
| Test for room having | DISPLAY | WEAPON IN THE ROOM: CHAIN SAW NEIGHBOURS: TROPHY ROOM, DINING HALL |
| only player | LIBRARY | PEOPLE IN THE ROOM: PLAYERONE |
| | I | TEOLEE IN THE ROOM. I EATERONE |
| Test moveTargetChar | 1 | DULLARD DOOM |
| Increment once | move() | BILLIARD ROOM |
| In aroma and six diverses | move() | FOVER |
| Increment six times | six times | FOYER |
| Test movePlayer() | | |
| | MOVE | |
| Walled Transfer | ONE | |
| Valid Test for moving | LILAC | LOCATION . LU AC DOOM |
| player | ROOM | LOCATION : LILAC ROOM |
| Valid Test for computer | NA | LOCATION · LIBRARY |
| player moving | INA | LOCATION : LIBRARY |

| automatically on its | 1 | |
|-------------------------------------|----------|--|
| automatically on its turn | | |
| tuiii | MOVE | |
| Invalid Test for moving | ONE | |
| to non neighbour room | LIBRARY | IllegalArgumentException |
| | LIDITAIT | megalAigamentException |
| Test getTurn() Valid Test for no of | | T |
| | NI A | CANALIC OVER LIBRIC LIBRIT DE ACLIED |
| turns exceeding limit | NA | GAME IS OVER! TURNS LIMIT REACHED |
| Playerone's turn | NA | PLAYERONE'S TURN |
| Computer Player's turn | NA | COMPUTER'S TURN |
| Test addPlayer() | | |
| | ADD | |
| Valid Test for creating | PLAYER | |
| player | ONE | PLAYER ONE ADDED |
| | ADD | |
| Valid Test for creating | PLAYER | |
| computer player | ONE | PLAYER ONE ADDED |
| Test look() | | |
| Valid Test for getting | | |
| neighbours | LOOK | NEIGHBOURS : TROPHY ROOM, DINING HALL, ARMORY |
| Test pickWeapon() | | |
| Valid Test for picking | PICK | |
| item from current | CHAIN | |
| room | SAW | WEAPON TAKEN : CHAINSAW |
| | PICK | |
| Invalid Test for room | BILLIARD | |
| with no item | CUE | IllegalArgumentException |
| | PICK | |
| Invalid Test for item | SHARP | |
| already picked | KNIFE | IllegalArgumentException |
| Test getPlayerInfo() | | |
| | DISPLAY | |
| Valid Test for all fields | PLAYER | PLAYER : ONE LOCATION : BILLIARD ROOM WEAPON TAKEN : |
| present | ONE | BILLIARD CUE |
| | DISPLAY | |
| Valid Test for player | PLAYER | PLAYER : ONE LOCATION : BILLIARD ROOM WEAPON TAKEN : |
| with no weapon | ONE | NONE |
| | DISPLAY | |
| Invalid Test for player | PLAYER | |
| not in the World | HERO | IllegalArgumentException |
| Others | 1 | |
| For input file not being | image.pn | |
| of .txt extension | g | FileFormatException |

| | | Name of the room : Armory |
|-------------------------|----------|---|
| | | Neighbours of the room : [Dining Hall, Drawing Room, Billiard |
| Test for displaying | DISPLAYR | Room] |
| room details for room | ООМ | Weapon/s in the room : [Revolver] |
| containing pet | Armory | Character/s in the room : Target, Fortune |
| test that verifies that | | Shreyas's turn : |
| | | , |
| your implementation | | PICK Revolver |
| only gives each player | PICK | Shreyas has picked Revolver |
| one action at a time | Revolver | Computer's turn : |
| test that verifies that | | |
| your implementation | | Shreyas's turn : |
| alternates turns | | PICK Revolver |
| between players in the | PICK | Shreyas has picked Revolver |
| order they were added | Revolver | Computer's turn : |
| | | Computer's turn : |
| Computer player test | NA | Computer has picked Billiard Cue |

3. Individual class testing

| Test | Input | Expected Value | |
|---|--|--|--|
| Testing room implementation | | | |
| Valid test for creation of room using valid arguments | "0, Armory, 22, 19, 23, 26" | "Room Index : 0, Room Name : Armory, TopWall : 22, LeftWall : 19, BottomWall : 23, RightWall : 26" | |
| Invalid test while creating a room for invalid/null arguments | ", Armory, 22, 19, 23, 26" "0, , 22, 19, 23, 26" "0, Armory, , 19, 23, 26" "0, Armory, 22, , 23, 26" "0, Armory, 22, 19, , 26" "0, Armory, 22, 19, 23, " " 57, Armory, 22, 19, 23, 26" "0, @#\$%, 22, 19, 23, 26" "0, Armory, 66, 19, 23, 26" "0, Armory, 22, 98, 23, 26" "0, Armory, 22, 19, -9, 26" "0, Armory, 22, 19, -9, 26" "0, Armory, 22, 19, 23, 0.8" | IllegalArgumentException | |

| Valid test for testing of all getter methods | "0, Armory, 22, 19, 23, 26" | "Room Index : 0, Room Name : Armory, TopWall : 22, LeftWall : 19, BottomWall : 23, RightWall : 26 Target : Doctor Lucky Player : Computer Pet : Fortune Weapon : Revolver" |
|---|--|--|
| Valid test for testing of all setter methods | 1. Creation "0, Armory, 22, 19, 23, 26" 2. Add Target "Doctor Lucky" 3. Remove Target "Doctor Lucky" 4. Add Player "Shreyas" 5. Remove Player "Shreyas" 6. Add Pet "Fortune" 7. Remove Pet "Fortune" | 1. "Room Index : 0, Room Name : Armory, TopWall : 22, LeftWall : 19, BottomWall : 23, RightWall : 26" 2. "Doctor Lucky" 3. Null 4. "Shreyas" 5. Null 6. "Fortune" 7. Null |
| Invalid test for testing invalid/null arguments to setter methods | 1. Creation "0, Armory, , 19, 23, 26" 2. Add Target "" 3. Remove Target "Doctor Loki" 4. Add Player 123 5. Remove Player Null 6. Add Pet Null 7. Remove Pet "#\$%" | IllegalArgumentException |
| Testing player implementat | | |
| Valid test for creation of player using valid arguments | "Shreyas, 2, 0" | "Player Name : Shreyas Player Rank : 2 Player room index : 0" |

| Invalid test while creating a player for invalid/null arguments | "\$%^, 2, " | IllegalArgumentException | |
|---|---|--|--|
| Valid test for testing of all getter methods | "Shreyas, 2, 0" | 1. "Shreyas, 2, 0" 2. "Shreyas" 3. 2 4. 0 5. [Revolver] | |
| Valid test for testing of all setter methods | 1. Creation - "Shreyas, 2, 0" 2. Update Location - 4 3. Add weapon - [Revolver] 4. Remove weapon - [Revolver] | 1. "Player Name : Shreyas Player Rank : 2 Player room index : 0" 2. 4 3. [Revolver] 4. Null | |
| Invalid test for testing invalid/null arguments to setter methods | 1. Creation - ", 2, 0" 2. Update Location - 46 3. Add weapon - [^&*] 4. Remove weapon - [Revolver] | IllegalArgumentException | |
| Testing weapon implementa | ation | | |
| Valid test for creation of weapon using valid arguments | "Sharp Knife, 3, 8" | "Weapon name - Sharp Knife Kill Power - 3 Location - Kitchen" | |
| Invalid test while creating a weapon for invalid/null arguments | ",3,8" | IllegalArgumentException | |
| Valid test for testing of all getter methods | "Sharp Knife, 3, 8" | "Weapon name - Sharp Knife Kill Power - 3 Location - Kitchen" | |
| Valid test for testing of all setter methods | 1. creation - "Sharp Knife, 3, 8" 2. set weapon location - Null 3. set player name - Shreyas | 1. "Weapon name - Sharp Knife Kill Power - 3" 2. "Location - Null" 3. "Player - Shreyas" | |
| Invalid test for testing invalid/null arguments to setter methods | 1. creation - "Sharp Knife, 3, 8" 2. set weapon location - Null 3. set player name - Null | IllegalArgumentException | |
| Testing target implementation | | | |
| Valid test for creation of target using valid arguments | "Doctor Lucky, 50, 0, 0" | "Name - Doctor Lucky Health - 50 Location - Armory Player rank - 0" | |

| Invalid test while creating a target for invalid/null arguments | " , 50, 0, 0" | IllegalArgumentException | |
|---|---|---|--|
| Valid test for testing of all getter methods | "Doctor Lucky, 50, 0, 0" | 1. "Name - Doctor Lucky" 2. "Health - 50" 3. "Location - Armory" 4. "Player rank - 0" | |
| Valid test for testing of all setter methods | 1. update location - 2 2. set health - 3 | 1. "Location - Dining Hall" 2. "Health - 47" | |
| Invalid test for testing invalid/null arguments to setter methods | 1. update location - 90 2. set health - 51 | IllegalArgumentException | |
| Testing pet implementation | | | |
| Valid test for creation of pet using valid arguments | "Fortune, 1, 0" | "Name : Fortune Location : Armory Player rank : 1" | |
| Invalid test while creating a pet for invalid/null arguments | ", 1, 0" | IllegalArgumentException | |
| Valid test for testing of all getter methods | "Fortune, 1, 0" | 1. "Name : Fortune" 2. "Location : Armory" 3. "Player rank : 1" | |
| Valid test for testing of all setter methods | 1. Update Location - 1 | 1. "Location - Billiard Room" | |
| Invalid test for testing invalid/null arguments to setter methods | 1. Null | IllegalArgumentException | |
| Command classes implementation | | | |
| Valid test for creation of command using valid arguments | valid arguments for respective commands | "Command executed successfully" | |
| Invalid test while creating a command for invalid/null arguments | Null | IllegalArgumentException | |