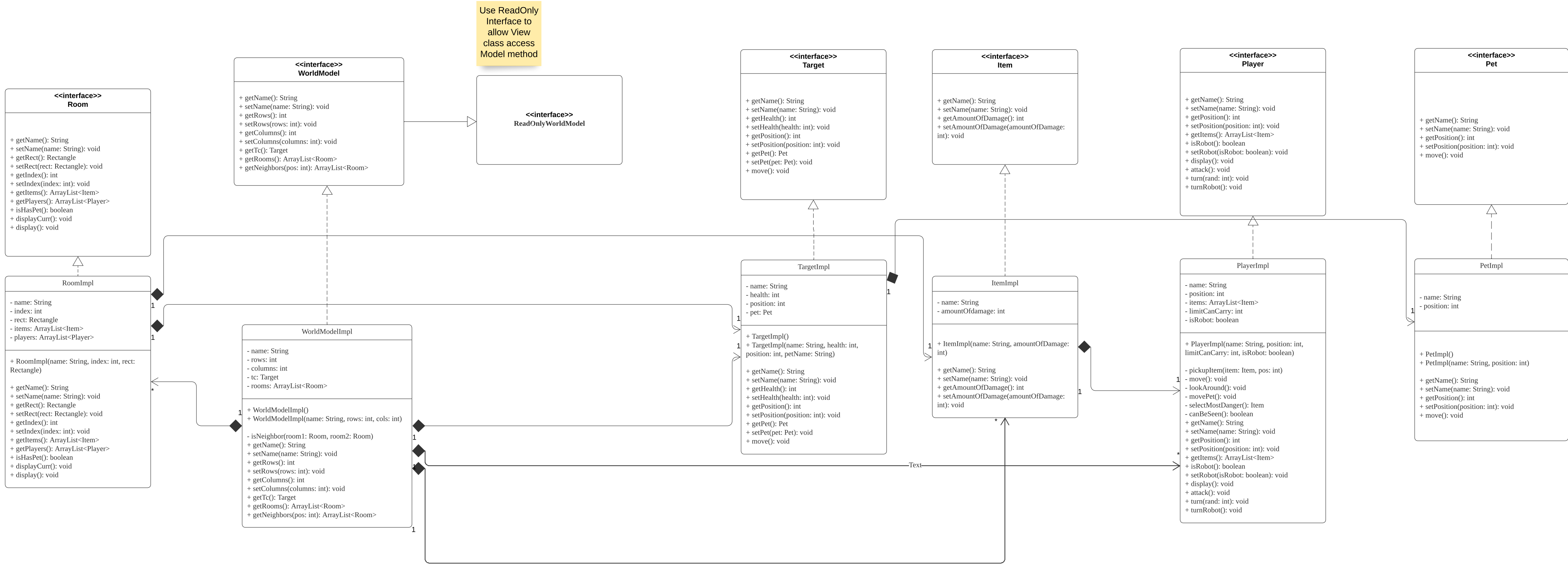
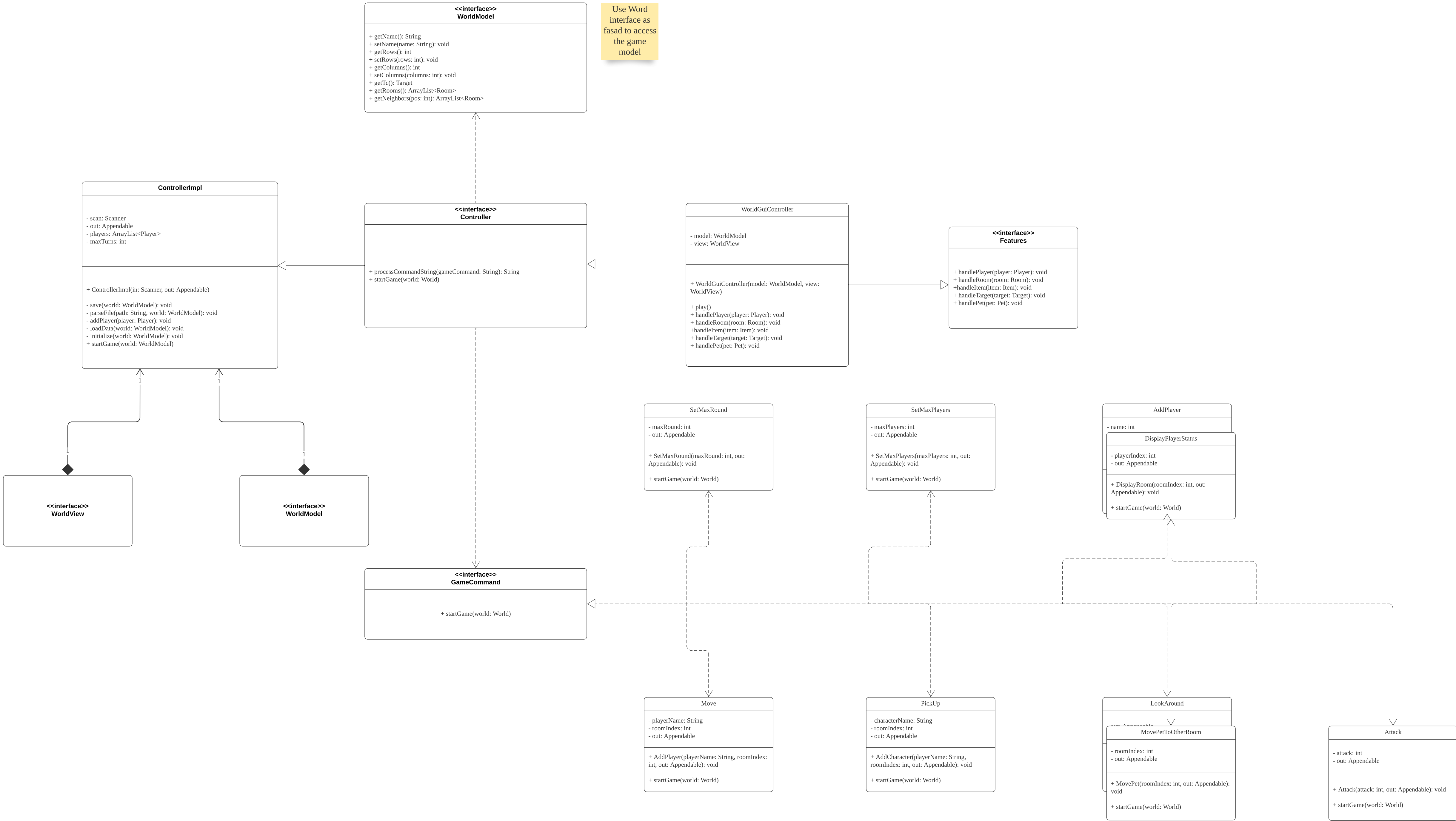


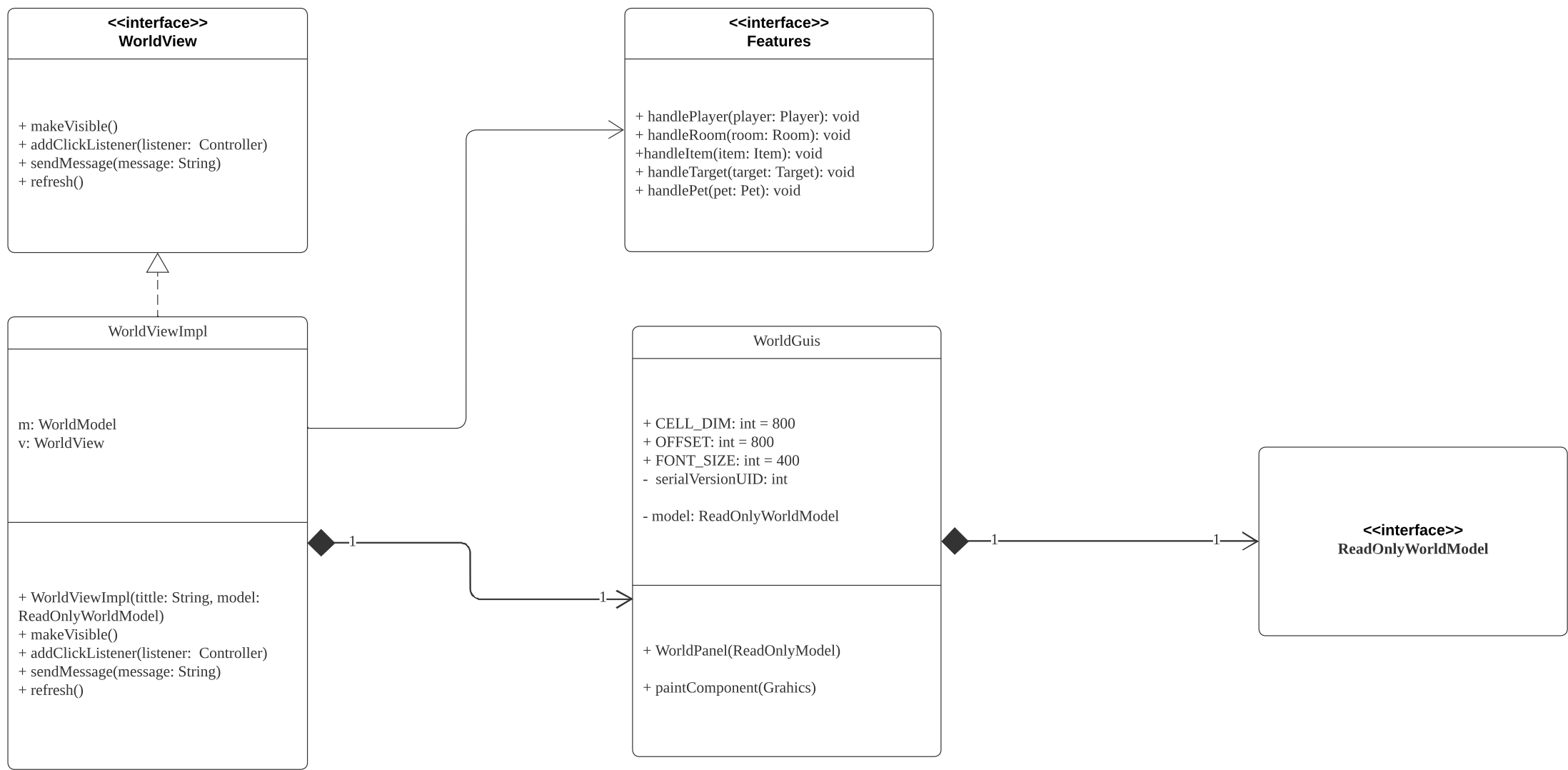
Model



Controller



View



Testing design for Milestone4: The View

Created by Andy(Xiang-yu) Cui

NUID: 001514414

Reference documents(UML): Milestone4_theview

Model Test:

worldModel.java

Testing instance	Input	Expected Value
General test	read("Doctor Lucky's Mansion", 36, 30)	program works
test wrong path	read("abc")	IllegalArgumentException

Testing getName() & setName()	Input	Expected Value
Set name	read("Doctor Lucky's Mansion")	Successful
Get name	read("Doctor Lucky's Mansion")	Doctor Lucky's Mansion

Testing getRows() & setRows()	Input	Expect Value
Set total rows	read(36)	Successful
Get total rows	read(36)	36

Testing getCols() & setCols()	Input	Expect Value
Set total cols	read(30)	Successful
Get total cols	read(30)	30

Get Target	Input	Expect Value
Testing getTc()	Target("Doctor Lucky", 50, 0, "Fortune the Cat")	Successful

Testing <code>getNeighbours()</code>	Input	Expect Value
General input	<code>read(0)</code>	Billiard Room, 1; Dining Hall, 3; Drawing Room, 4

Testing <code>getRooms</code>	Input	Expect Value
Get Rooms	<code>rooms("Armory", 0, rect, world)</code>	22 19 23 26 Armory

Room.java

Testing <code>getRooms()</code>	Input	Expect Value
General total rooms	<code>rmtotal(1)</code>	1
Total rooms with negative integer	<code>rmtotal(-1)</code>	<code>IllegalArgumentException</code>
Total rooms with invalid string	<code>rmtotal("abc")</code>	<code>IllegalArgumentException</code>
Total rooms with zero room	<code>rmtotal(0)</code>	<code>IllegalArgumentException</code>
Total rooms with large integer	<code>rmtotal(9999)</code>	9999

Testing <code>getName()</code>	Input	Expect Value
General room's name	<code>rooms("Armory", 22, 19, 23, 26, 0, "Revolver")</code>	Armory
Room's name with integer	<code>rooms("Armory1", 22, 19, 23, 26, 0, "Revolver")</code>	Armory1
Room's name with invalid string	<code>rooms("@#", 22, 19, 23, 26, 0, "Revolver")</code>	<code>IllegalArgumentException</code>
Room's name with pure integer	<code>rooms("123", 22, 19, 23, 26, 0, "Revolver")</code>	123

Testing <code>getIndex()</code> & <code>setIndex</code>	Input	Expect Value
Get room's index	<code>rooms("0", Armory, rect)</code>	0
Set room's index	<code>rooms("0", Armory, rect)</code>	Successful

Testing <code>getItems()</code>	Input	Expect Value
General input	rooms("0", Armory, rect)	Revolver

Testing <code>getPlayers</code>	Input	Expect Value
General set player1(Tom) in Room 0	rooms("0", Armory, rect)	player1: Tom

Item.java

Testing <code>getItemPos()</code>	Input	Expect Value
General item position	itt("Crepe Pan", 8, 3)	16 3 21 10
items with non-exist name	itt("abc", 8, 3)	IllegalArgumentException

Testing <code>getItemAttack()</code>	Input	Expect Value
General item damage	itt("Crepe Pan", 8, 3)	3
Total items with negative integer	iitt("Crepe Pan", 8, -3)	IllegalArgumentException
Total items with invalid string	itt("Crepe Pan", 8, "abc")	IllegalArgumentException
Total items with negative room index	itt("Crepe Pan", -1, 3)	IllegalArgumentException

Testing <code>getItemName()</code>	Input	Expect Value
General item name	itt("Crepe Pan", 8, 3)	Crepe Pan
Item's name with integer	itt("Crepe Pan1", 8, 3)	Crepe Pan1
Item's name with invalid string	itt("Crepe Pan", 8, 3)	IllegalArgumentException
Item's name with pure integer	itt("123", 8, 3)	123

TargetCharacter.java

Testing instance and <code>getCharacterName()</code>	Input	Expected Value
All general input	target("Doctor Lucky", 50, 22, 19, 23, 26)	Doctor Lucky
Invalid type in our case we test	target("", 50, 22, 19, 23,	IllegalArgumentException

separate, we test in instance Testing Instance and	26) Input	IllegalArgumentException Expected Value
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Testing getCharacterPos()	Input	Expected Value
All general input	target("Doctor Lucky", 50, 22, 19, 23, 26)	22, 19, 23, 26
Invalid type	target("Doctor Lucky", -50, -22, -19, -23, -26)	IllegalArgumentException

Testing getCharacterHp()	Input	Expected Value
All general input	target("Doctor Lucky", 50, 22, 19, 23, 26)	50
Invalid type input	target("Doctor Lucky", -50, -22, -19, -23, -26)	IllegalArgumentException

Testing getTargetAttack()	Input	Expected Value
All general input	player1("Tom", "Crepe Pan", 22, 19, 23, 26)	22
Invalid type negative int	player1("Tom", "Crepe Pan", -22, 19, 23, 26)	IllegalArgumentException

Pet.java

Testing getPetPos	Input	Expected Value
All general input	petSimple(1)	1
Invalid type negative int	petSimple(-1)	IllegalArgumentException

Testing getMaster	Input	Expected Value
All general input	petSimple(1)	Doctor Lucky

Testing petLookAround	Input	Expected Value
All general input	rooms("Armory", 22, 19, 23, 26, 0, "Revolver") Tom.inspect;	upperLeftCorner: Dinning Hall; lowerLeftCorner: Billiard Room, Upper: Drawing Room
if No wall	rooms("AC Room", 22, 19, 23, 26, 0, "Revolver")	No wall

Testing	Tom.inspect;	
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Testing <code>currentRoomInfo()</code>	Input	Expect Value
Current Room	room[0].getCurrentRoom	Armory, 0

`Player.java`

Testing instance and <code>getPlayerName()</code>	Input	Expected Value
All general input	player("Tom", "Crepe Pan", 22, 19, 23, 26)	Tom
Invalid type empty	player("", "Crepe Pan", 22, 19, 23, 26)	IllegalArgumentException

Testing <code>getNumberOfPlayer()</code>	Input	Expected Value
All general input	playerCount(2)	2
Invalid type negative	platerCount(-2)	IllegalArgumentException

Testing instance and <code>getPlayerPos()</code>	Input	Expected Value
All general input	player("Tom", "Crepe Pan", 22, 19, 23, 26)	22, 19, 23, 26
Invalid type empty lowerCorner	player("Tom", "Crepe Pan", 22, 19)	IllegalArgumentException

Testing instance and <code>getHoldItem()</code>	Input	Expected Value
All general input	player("Tom", "Crepe Pan", 22, 19, 23, 26)	Crepe Pan
Invalid type empty	player("Tom", "", 22, 19, 23, 26)	IllegalArgumentException

Testing pickUp()	Input	Expected Value
All general input	rooms("Armory", 22, 19, 23, 26, 0, "Revolver") Tom.pickUp;	Revolver
Invalid type empty	rooms("Armory", 22, 19, 23, 26, 0, "") Tom.pickUp;	null

Testing inspect()	Input	Expected Value
All general input	rooms("Armory", 22, 19, 23, 26, 0, "Revolver") Tom.inspect;	upperLeftCorner: Dinning Hall; lowerLeftCorner: Billiard Room, Upper: Drawing Room
if No wall	rooms("AC Room", 22, 19, 23, 26, 0, "Revolver") Tom.inspect;	No wall

Testing attack()	Input	Expected Value
All general input	rooms("Armory", 22, 19, 23, 26, 0, "Revolver") Tom.attack; show.getCharacterHp;	47

Controller Test:

Testing DisplayRoom()	Input	Expected Value
All general input	StringReader(display)	roomDisplay;
txt fil is not exist	StringReader(display)	IllegalArgumentException

Testing AddPlayer()	Input	Expected Value
All general input	StringReader("Tom", 1)	player Tom already add to game
roomIndex is not exist	StringReader("Jerry", -1)	IllegalArgumentException

Testing AddCharacter()	Input	Expected Value
All general input	StringReader(1)	npc already add to game
roomIndex is not exist	StringReader(-1)	IllegalArgumentException

Testing <code>MoverPlayer()</code>	Input	Expected Value
All general input	StringReader(1)	current room index is 1
roomIndex is not exist	StringReader(-1)	IllegalArgumentException

Testing <code>PickItem()</code>	Input	Expected Value
All general input	StringReader(1)	player: XXX pick the item “Crepe Pan”
item is not exist	StringReader(1)	current room is nothing

Testing <code>DisplayPlayerStatus()</code>	Input	Expected Value
All general input	StringReader(1)	player: XXX
player is not exist	StringReader(99)	player is not exist

Testing <code>MovePet()</code>	Input	Expected Value
All general input	StringReader(1)	pet moved to index 1
pet move is invalid	StringReader(99)	pet can not move there

Testing <code>Attempt()</code>	Input	Expected Value
All general input	StringReader(1)	Attempt attack is 2
Attempt is empty	StringReader(22)	Attempt is nothing

View Test:

So, the GUI test by function and check the GUI is create successful or not.

Testing <code>worldviewImpl()</code>	Input	Expected Value
All general input	startGui()	checked successful
Gui created fail	startGui()	IllegalException

Testing <code>makevisible()</code>	Input	Expected Value
All general input	startGui()	checked successful
Gui created fail	startGui()	IllegalException

Testing <code>addClickListener()</code>	Input	Expected Value
All general input	<code>startGui()</code>	checked successful
Gui created fail	<code>startGui()</code>	<code>IllegalArgumentException</code>

Testing <code>sendMessage()</code>	Input	Expected Value
All general input	<code>testMessage("Kill Target Game")</code>	checked successful
Gui created fail	<code>testMessage("")</code>	<code>""</code>