

SWEN225 Assignment 1 CRC Cards

CluedoGame	
Let players select characters	Player
Make sure there are 3 - 6 players	Board
Creates board	WeaponCard
Distributes cards to players, and keeps track of which player has which cards	CharacterCard
Takes in user input for movement/suggestion/accusation	RoomCard
Print output	Exceptions
Knows when the player's turn ends	
Knows whether the player is still in the game (incorrect accusation)	
Knows the solution (murder who what and where)	
No duplicates of anything	
No moving diagonally	
Cannot skip tiles	
No moving through tile twice in a turn	
If someone is standing in one tile, no other player can walk onto this tile	
Player can only make suggestions from rooms, and the suggested room must be this room	
When an suggestion is made, the person on the left must show one card from the suggested scenario (if they have it)	
Player cannot be out of bounds, and cannot walk into inaccessible tiles (walls)	

Board	
Placement of all tiles	Tile
Starting position of all characters	Player
Knows where players are after each turn	Characters
Which player is which character	InaccessibleTile
	Exceptions

Tile	
Coordinates	Player
Knows which player is standing on it	Exceptions

InaccessibleTile	
Extends Tile	Tile
Is inaccessible (players are unable to walk into the tile)	Exceptions
Coordinates	

Player	
Knows which character they are	WeaponCard
Owens a few cards (distributed at start of game)	RoomCard
Knows where on the board they are	CharacterCard
	Tile
	Exception

Card	
Interface for cards :)	WeaponCard
	RoomCard
	CharacterCard

WeaponCard	
Implements card	Card
Name (Pipe/Revolver/...)	
Which player has this card	

RoomCard	
Implements card Name (Hall/Library/...)	Card

CharacterCard	
Implements card Name (Plum/Scarlet/...)	Card

Exceptions	
Out of bounds Moving through walls Not this person's turn Blocked by someone Not enough players Incorrect suggestions Incorrect character name	

Card Tuple	
Used for suggestions, accusations and the solution	WeaponCard CharacterCard RoomCard