

## UMLs:

Game
<ul style="list-style-type: none"><li>- name : String</li><li>- cost : int</li><li>- playerCount : int</li><li>- playTime : float</li><li>- rating : int</li></ul>
<pre>&lt;&lt;constructor&gt;&gt;Game(name : String, cost: int, playerCount: int, playTime : float, rating : int) + setName(name : String) + setCost(cost : int) + setPlayerCount(playerCount : int) + setPlayTime(playTime : float) + setRating(rating : int) + getName() : String + getCost() : int + getPlayerCount() : int + getPlayTime() : float + getRating() : int + toString() : String</pre>

TableGame
<ul style="list-style-type: none"><li>- complexityLevel: int</li><li>- numComponents: int</li></ul>
<pre>&lt;&lt;constructor&gt;&gt;TableGame(complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + getComplexityLevel() : int + getNumComponents() : int + setComplexityLevel(complexityLevel : int) : void + setNumComponents(numComponents : int) : void + toString() : String</pre>

VideoGame
<ul style="list-style-type: none"><li>- platform : String</li><li>- genre: String</li></ul>
<pre>&lt;&lt;constructor&gt;&gt;VideoGame(platform : String, genre : String, name : String, cost : int, playerCount : int, playTime : float, rating : int) + getPlatform() : String + getGenre() : String + setPlatform(platform : String) : void + setGenre(genre : String) : void + toString() : String</pre>

BoardGame
- boardSize: int
+ BoardGame(boardSize: int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + getBoardSize() : int + setBoardSize(boardSize: int) : void + toString() : String

CardGame
- deckType: String - numCards: int - handSize: int
<<constructor>>CardGame(deckType : String, numCards : int, handSize : int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + getDeckType() : String + getNumCards() : int + getHandSize() : int + setDeckType(deckType: String) : void + setNumCards(numCards: int) : void + setHandSize(handSize: int) : void + toString() : String

TableGame
- complexityLevel : int - numComponents : int
<<constructor>>TableGame(complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + getComplexityLevel() : int + getNumComponents() : int + setComplexityLevel(complexityLevel : int) : void + setNumComponents(numComponents : int) : void + toString() : String

BetrayalAtTheHouseOnTheHill
N/A
<<constructor>>BetrayalAtTheHouseOnTheHill(boardSize: int, numPieces : int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String
Crokinole
N/A
<<constructor>>Crokinole(boardSize : int, numPieces : int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String
Doom
N/A
<<constructor>>Doom(platform : String, genre : String, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String
DungeonsAndDragons
N/A
<<constructor>>DungeonsAndDragons(boardSize: int, numPieces : int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String
EscapeCurseOfTheTemple
N/A
<<constructor>>EscapeCurseOfTheTemple(boardSize : int, numPieces : int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String

HollowKnight
N/A
<<constructor>>HollowKnight(platform : String, genre : String, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String

Loonacy
N/A
<<constructor>>Loonacy(deckType : String, numCards : int, handSize : int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String

MarioKart
N/A
<<constructor>>MarioKart(platform : String, genre : String, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String

Mysterium
N/A
<<constructor>>Mysterium(boardSize : int, numPieces : int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String

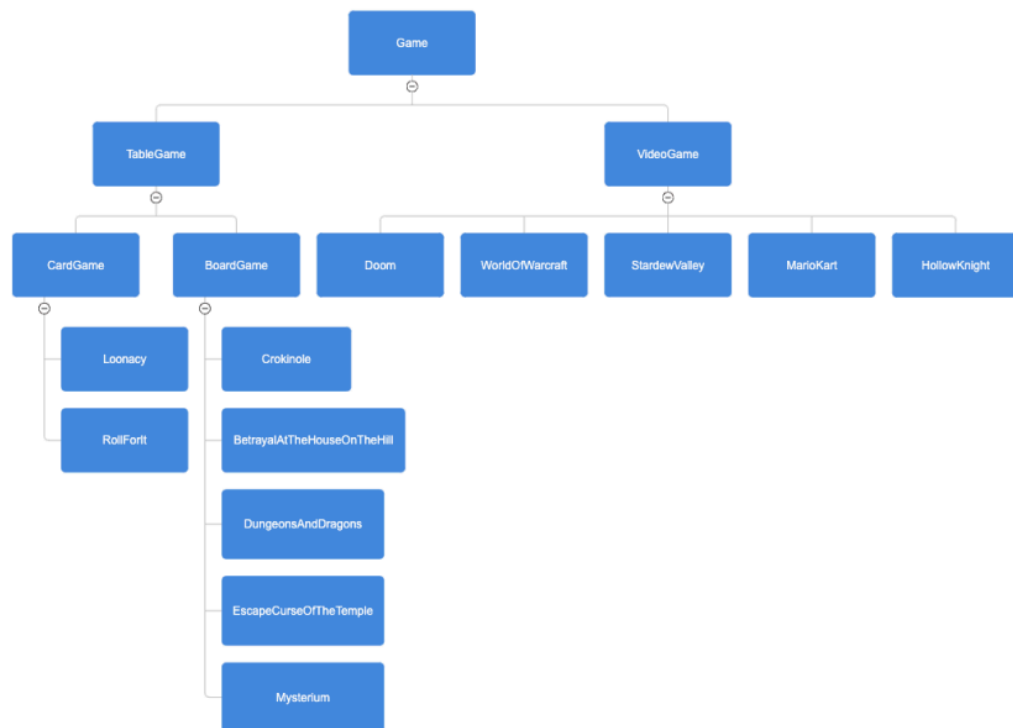
RollForIt
N/A
<<constructor>>RollForIt(deckType : String, numCards : int, handSize : int, complexityLevel : int, numComponents : int, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String

StardewValley
N/A
<<constructor>>StardewValley(platform : String, genre : String, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String

WorldOfWarcraft
N/A
<<constructor>>WorldOfWarcraft(platform : String, genre : String, name : String, cost : int, playerCount : int, playTime : float, rating : int) + toString() : String

## Hierarchy Chart:



### Random Game Selection Output:

Selected Games:

Escape: Curse of the Temple  
Mysterium

World of Warcraft

Betrayal at House on the Hill

Stardew Valley

Dungeons & Dragons

Mario Kart

Crokinole

Hollow Knight

Roll for It

Loonacy

Doom