CS 2365 OBJECT-ORIENTED PROGRAMMING PROJECT 3 EXPANSION

Deliverables

Deadline, Wednesday, April 8^{th,} 2020

- Submit Preliminary Design Project 3.
 - UML Use Case Diagrams and their Specifications
 - Class-Responsabilities-Collaborators (CRC) Cards
 - UML Class Diagrams
 - Sketch of GUI
 - Preliminary list of Assignments per Team member.

Project 3 Expansion

- Model the Game **Bang! Dice Game** and *the selected modules from its expansions*, using OOP.
- Document your OOAD using Use-Case Diagrams and Class Diagrams, updating your preliminary analysis and design.
- Code your Model in Java
- Use JavaDoc for all your classes
- Perform Unit and Integration Testing on your Cod.
- Provide a GUI interface using JavaFX
- Your implementation should provide the means for a person to play the game against 3 to 7 automated players that play according to their roles and adapt their own strategy as the roles of the other players are revealed upon elimination.



First Game Expansion

Old Saloon

https://www.dvgiochi.com/giochi/OldSaloon/download/BANG!DiceGame OldSaloon Rules ENG.pdf

- The Loudmouth and the Coward (Two Dice)
- 2. The Arrow of the Indian Chief
- 3. Special Roles (Abilities)
- 4. A Posse of New Characters (New Characters)
- The Ghost (Only with 5 or more players)



Second Game Expansion

Undead or Alive

https://www.dvgiochi.com/giochi/bang-thedicegameundeadoralive/download/BANG!DiceGame UndeadOrAlive Eng Rules.pdf

- 1. Look Me in the Eyes (New Dice)
- 2. Two Bullets Are Enough
- 3. A New Posse in Town (New Characters)
- 4. Undead or Alive?(Only with 4 or more players)11 Boneyard Cards
 - **2** *0-Hands*, **6** *1-Hand*, **3** *2-Hands*
- 5. Wild West Legacy



Expansions (Modules to include in project)

There are two expansions with 5 modules each one but you are only adding the following modules to the project

From Old Saloon

- Module 1 The Loudmouth and the Coward (Dice)
- Module 2 The Arrow of the Indian Chief
- Module 4 A Posse of New Characters (Jose Delgado, Tequila Joe, Apache Kid, Bill Noface)

From Undead or Alive

- Module 1 Look Me in the Eyes (Dice)
- Module 3 A New Posse in Town (Belle Star, Greg Digger)
- Module 4 Undead or Alive? (Only with 4 or more players)





Expansion (Pool of Characters)

Characters

- Bart Cassidy
- Black Jack
- Calamity Janet
- El Gringo
- Jesse Jones
- Jourdonnais
- Paul Regret
- Pedro Ramirez
- Rose Doolan
- Suzy Lafayette
- Vulture Sam
- Jose Delgado*
- Tequila Joe *
- Apache Kid *
- Bill Noface*
- Belle Star**
- Greg Digger**

From the list of characters, select the ones to include in your project, implementing their abilities

- From the Basic game include at least 6 characters, preferable 8
- From the "Old Saloon" expansion include at least 2 characters (*)
- From the "Undead or Alive" expansion include both characters (**)

At the **START** of the program select if you want to use the expansions or not.

* Your team can decide if they want to select modules individually.

If the expansions are used

- Two out of the white basic dice are replace with the two black dice.
- The arrow of the Indian chief is added to the pool of arrow for a total of 10
- The boneyard cards are shuffle and set in a pile to draw from
- The player can replace one white dice with the loudmouth or the coward dice for this turn.
 Examples dice combinations:
 - 2 white dice, The Loudmouth and the 2 black dice.
 - 2 white dice, 2 black dice, the coward dice
 - 3 white dice, 2 black dice.
 - 2 white dice, 2 black dice, the coward &the loudmouth dice (*Tequila Joe* or *Jose Delgado* characters only)