GVSU Blackjack Game

CIS350 TERM PROJECT – RELEASE ONE NATHAN LINDENBAUM – EMERSON VEENSTRA

Project Description:

GVSU Blackjack is a graphics based blackjack game. In the game the player will play the card game blackjack against a dealer. The dealer will be played automatically by the program. The player will be able to bet credits one an infinite number of hands.

Feature List for Release 1:

Game:

- 1. Deal
- 2. Hit
- 3. Stand
- 4. Double Down
- 5. Bet
- 6. Shuffle

GUI:

- 1. Display Cards
- 2. Update Playing Cards
- 3. Display Hint Card
- 4. Turn Buttons on and off

Instructions for Playing:

Once you run the program an Option box will appear. It will ask the player how much they want to bet on their first hand. The player is initialized with 50 credits.

- 1. Enter the amount of credits you'd like to bet.
- 2. GUI will appear with option to change bet or deal cards. Select deal cards.
- 3. Play blackjack until you either run out of money or want to stop.
- 4. To display a hint card:
 - a. Select "File"
 - b. Then click "Hint Card"

Use Case 1:

Nama	Ctarting a gama
Name	Starting a game
ID	UC1
Brief Description	The steps to start a new game
Actors (primary and	Dealer
supporting/secondary)	Player
Triggers	Running the application
Preconditions	None
Primary Flow	 Player enters the amount to bet Player clicks OK Player clicks Deal Dealer deals initial 4 cards
Alternate Flows	 Player quits game before hand is dealt Game ends Player clicks on bet to change the amount of money. Return to step 1 of primary flow and start over
Minimal Guarantees	None
Success Guarantees	The initial 4 cards are dealt

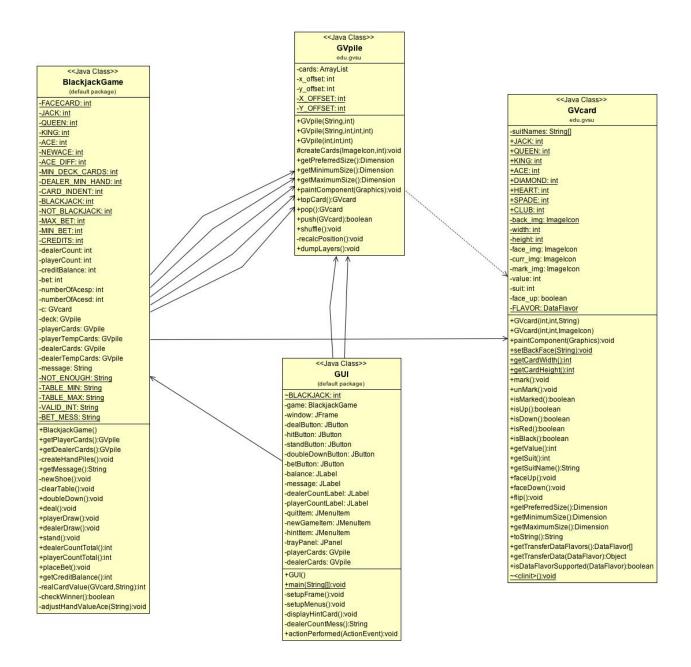
Use Case 2:

USE Case 2.	
Name	Player draws card
ID	UC2
Brief Description	Dealing another card to the player
Actors (primary and	Player, Dealer
supporting/secondary)	
Triggers	Clicking the Draw button
Preconditions	The player must be dealt the initial two cards already
Primary Flow	1. The player clicks the deal button
	2. The dealer gives the player a card
	3. The score is updated and the player can
	choose the next move
Alternate Flows	1. The player draws a card that puts them over
	21
	a. The dealer wins the hand and the next
	round starts
	2. The player draws a card that gives a score of
	exactly 21
	. The player wins the hand and the next round
	starts
Minimal Guarantees	The player will have all the cards for the round dealt
	to them
Success Guarantees	The player will get a card and have the option to
	choose another

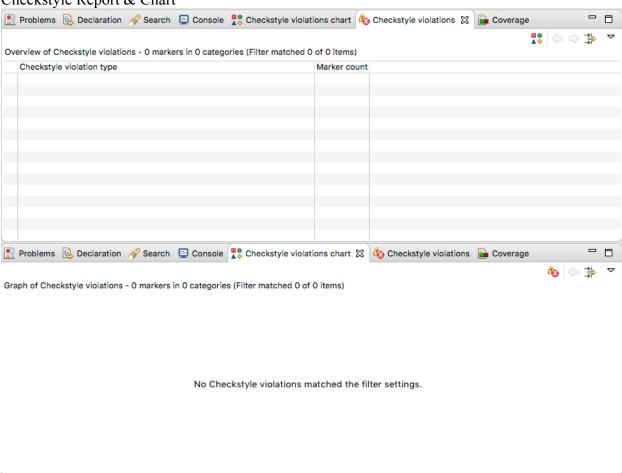
Use Case 3:

Name	Dealer plays
ID	UC3
Brief Description	When the dealer plays the round and the round ends
Actors (primary and	Player, dealer
supporting/secondary)	
Triggers	Player stands
Preconditions	The player must have less than 21 points in the round
Primary Flow	1. Player hits the Stand button
	2. Dealer draws card
	 a. repeat until dealer has likely chance
	of winning
	3. Player starts a new round by clicking Deal
	button
Alternate Flows	1. Player decides to exit game instead of playing
	another round
Minimal Guarantees	The round was finished and a winner was decided
Success Guarantees	The player finished the round and started a new
	round

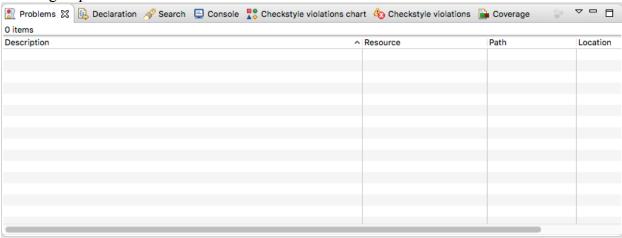
UML Class Diagrams



Checkstyle Report & Chart

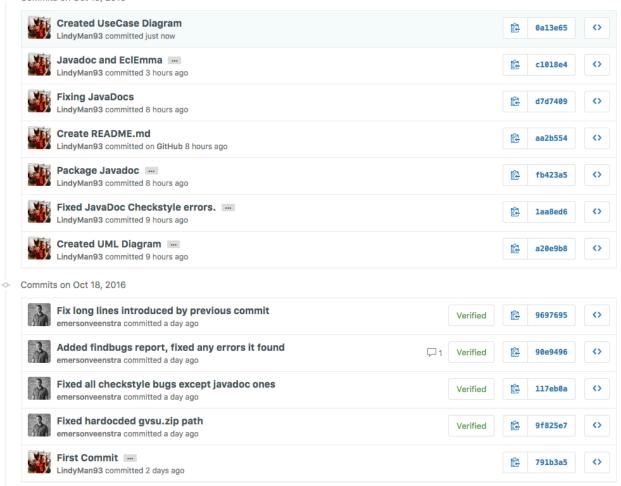


FindBug Report



GIT Log and URL

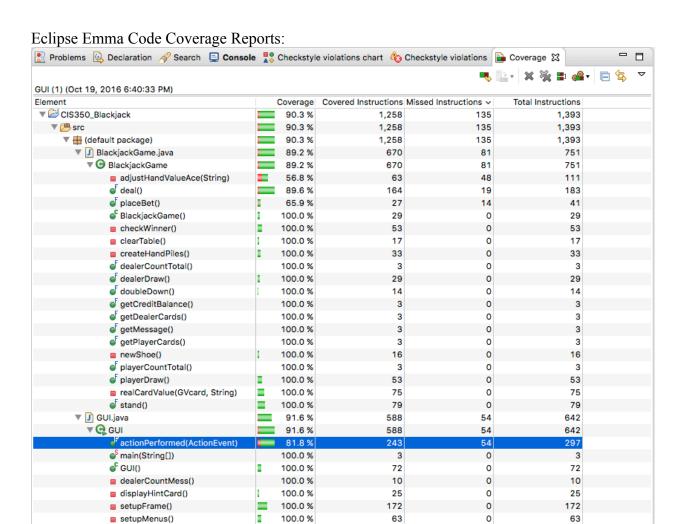
--- Commits on Oct 19, 2016



https://github.com/LindyMan93/CIS350 Blackjack

Javadoc API of classes

This will be located in two separate links attached to Email.



Responsibilities/Role of Each Team Member

Nathan Lindenbaum:

- 1 Research Blackjack rules and strategies.
- 2 Create Blackjack Game and GUI Classes.
 - a. All blackjack options (Hit, Stand, Deal, Cards)
 - b. Use GVpile and GVcard packages.
- 3 Do initial debugging and fix use errors in GUI.
- 4 Fix initial Checkstyle violations.
- 5 Create all Javadoc for:
 - a. Classes
 - b. Methods
 - c. Variables
 - d. Package
- 6 Create UML Diagrams for package and exterior packages.
- 7 Create Cover Page and Project Descriptions.
- 8 Dictate feature list for release 1.

Emerson Veenstra:

- 1 Play Game and do Use Cases
- 2 Create Use Case Diagram
- 3 Do coverage reports from unit and system using EclEmma