

Team Project: Mississippi Stud Poker GUI

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### **Included Files:**

- src.js: Source code for the program
- PNG-cards-1.3: this folder contains the images for each card. [3]
- index.css: This is the stylesheet for the HTML page.
- index.html: This is the HTML visuals used by the program.

### **Instructions to run and play:**

- To launch the program, you just need to open the index.html file in Google Chrome browser (currently animations fully functional only in Chrome).
- Before the cards are dealt both the 3-card bonus and the ante can be changed to whatever value the player wants.
- Pressing the "Deal" button will deal out the first two cards. The player can then choose to fold or increase their bet by 1x, 2x or 3x times.
- After this the next card is shown and then this process repeats until each card is revealed.
- Once all cards are revealed the player will be rewarded based on their final hand.
- The cheats menu can be used to play a particular hand simply enter the desired card values for each of the 5 cards into their respective fields and click the 'bet' button. Input should be in the form of card rank followed by the suit.
- For example: TH - will be interpreted as 10 of hearts, QS - will be interpreted as Queen of Spades and 5D - will be 5 of diamonds.

### **Rules of the game:**

For our final project we have chosen the topic of making a playable computer program for the casino game of Mississippi Stud Poker. The game is played with a standard 52 card deck and focuses on betting on the outcome of a 5-card hand that will be drawn from the deck [2]. The rules of the game are as follows:

1. The player must place a mandatory ante bet before any cards are revealed [1].
2. At the betting stage the player is also allowed to place a side bet on the outcome of the 3 community cards that will be paid out even if they fold throughout the game [1].

3. After betting has been concluded the player receives 2 cards from the deck into their hand and is able to see the 3 community cards that were drawn facing down [1].
4. At this point the player has the option to fold or to make a bet on the first community card called the “3<sup>rd</sup> street bet”, this bet must be 1 to 3 times the ante bet previously placed by the player [1].
5. After the first community card is turned over the player again has the option to fold or to make a bet on the second community card called the “4<sup>th</sup> street bet” which also must be 1 to 3 times the ante bet [1].
6. After the second community card is turned over the player for the final time is allowed to fold or to make the final bet on the third and final community card called the “5<sup>th</sup> street bet” which also must be 1 to 3 times the ante bet [1].
7. After all decisions have been made the final community card is turned over and the wagers are paid out on each bet placed by the player according to the 2 tables below [1]. With the ante bet being returned on forming a pair of 6s through 10s and anything higher resulting in a win for the player. While the side bet is paid out with an outcome of pair or higher [2].

**Ante Bet Table** [2]

Straight flush	100 to 1
Four of a kind	40 to 1
Full house	10 to 1
Straight	4 to 1
Three of a kind	3 to 1
Two pair	2 to 1
Jacks or better	1 to 1
Pair of 6s to 10s	Push

### **Side Bet Table** [2]

Mini Royal	50 to 1
Straight Flush	40 to 1
Three of a Kind	30 to 1
Straight	6 to 1
Flush	4 to 1
Pair	1 to 1

### **References**

1. Shackleford, Michael. "Mississippi Stud Poker." *Wizard of Odds*, Wizard of Odds, 28 Jan. 2021, <https://wizardofodds.com/games/mississippi-stud/>.
2. "Mississippi Stud." *Massachusetts gaming commission*, 10 Aug. 2020, <https://massgaming.com/wp-content/uploads/Rules-Mississippi-Stud-10-08-2020.pdf>. PDF download.
3. Curt. "Playing Cards (Vector & PNG)." *OpenGameArt.org*, OpenGameArt.org, 17 Apr. 2013, <https://opengameart.org/content/playing-cards-vector-png>.