

CS 342 Project 5 | Team #6

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Slapjack

- Describe the game being implemented
 - Game and objective
 - Slapjack, a card game that puts every player's reaction to the test. The object of the game is to win all the cards of the deck that are played at the center by all players. A player can win all the cards put in the center by slapping the center when a jack is put down. In the case of a desktop game, they'd be pressing a button. Each hand is facedown so that players are unable to see their own cards. Otherwise, a player would be aware when they're about to put down a card.
 - Card Dealing
 - All 52 cards in a deck are dealt to each of the four players. Some players may have more cards than others. Throughout the game players are not allowed to peek at the cards in their hand and remain facedown.
 - Game Play
 - Starting with a random player, every player picks a card from their hand and places it faceup to the center. The fun part of the game is when a jack gets played in the center. The first player to slap their hand on the jack wins all the cards in the center (this is done by pressing the slap button in our game). The winner of those cards adds them to their hand after shuffling them and the game continues. If a player slaps at any card in the center that is not a jack, they must give one card, face down, to the player of that card. When a player has no more cards left, they remain in the game until the next jack is turned. The player may slap at the jack in an effort to get a new pile. If the player fails to win that next pile, they are out of the game.
- Languages and frameworks being used
 - The teams has decided to develop with node.js which allows us to run JavaScript on the server. Furthermore, its an event-driven, non-blocking I/O model that makes it lightweight and efficient. Express.js, a web framework that lets us structure a web application to handle multiple different http requests at a specific url will be used in addition to that.
- client/server relationship

- Node.js will be used to run the javascript on the server side. The communication is to be handled by socket.io and their APIs.
- Socket.IO is a JavaScript library for realtime web applications. It enables real time, bi-directional communication between web clients and servers. It has two parts: a client-side library that runs in the browser, and a server-side library for Node.js. The communication between clients and server will be accomplished through strings being passed around.
- user interface
 - The user interface will display each players hand of cards facedown, buttons for playing a hand, and slapping center of table. The interface will also display cards faceup played at the center of the table.

