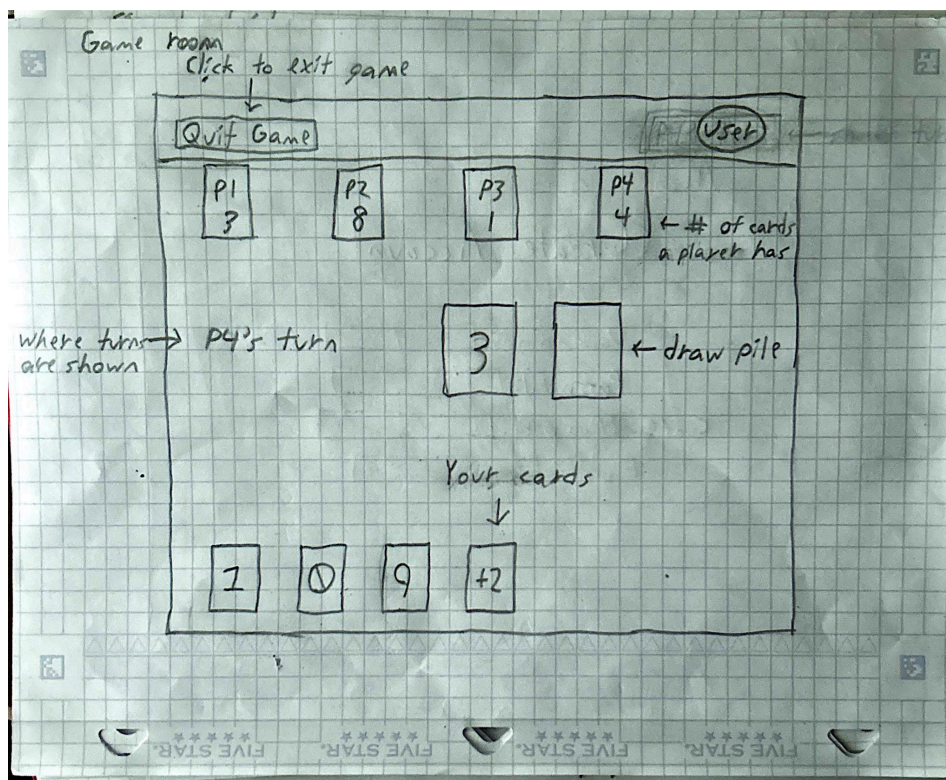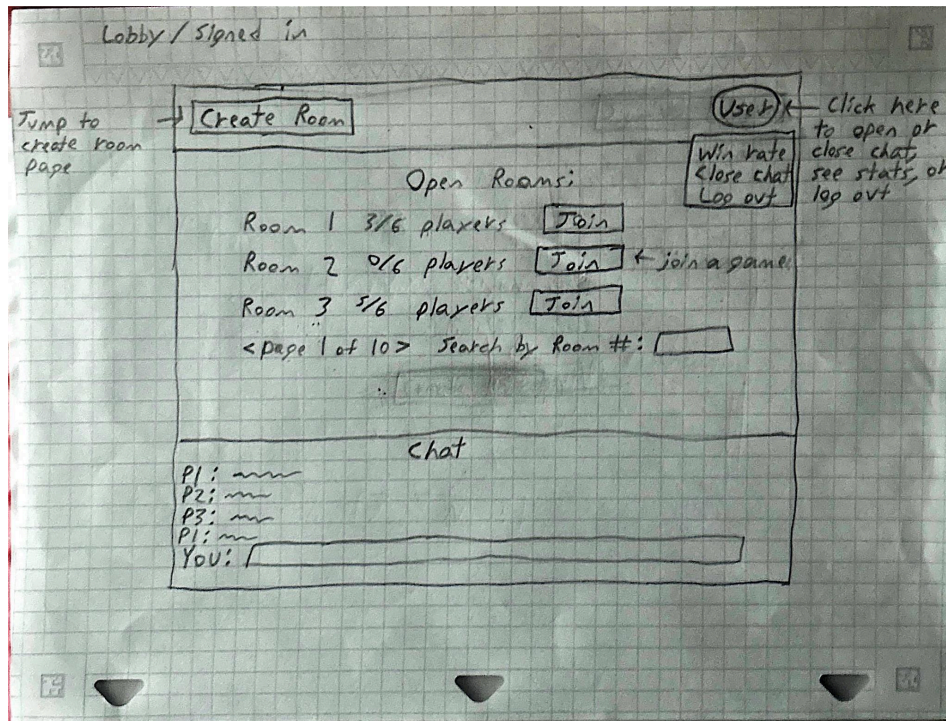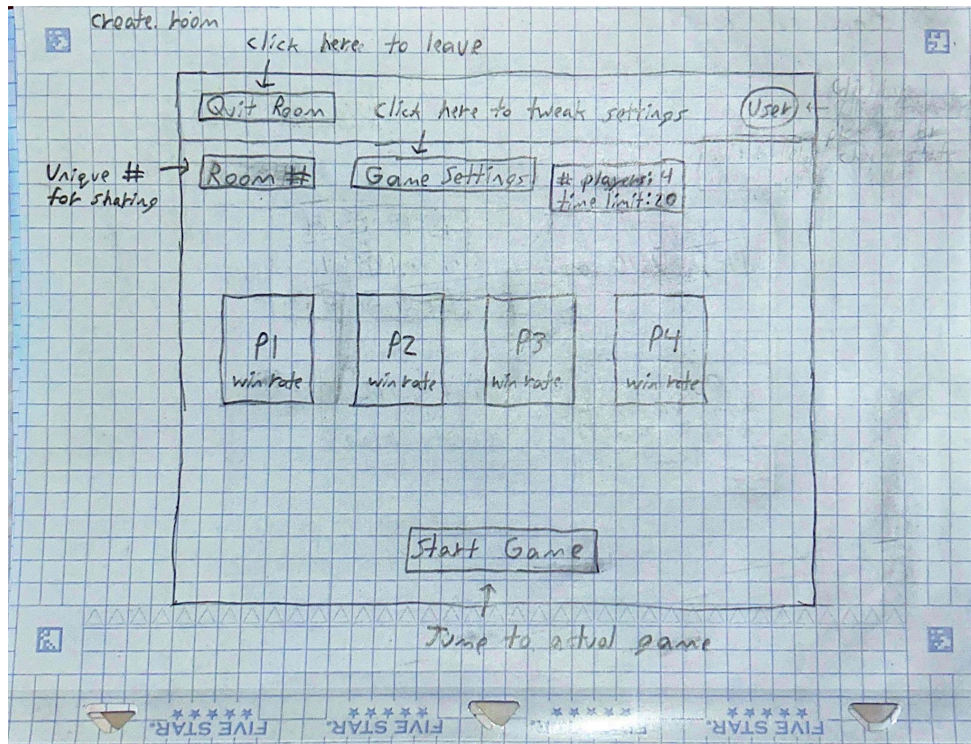Game: UNO

Features of game:
- Hand of seven cards in the beginning of the game
- Drawing cards from draw pile
  - Randomizing cards
- Reshuffling the discard pile when the draw pile is gone
- +2 cards (8 in a deck)
  - Give two cards to next player and skip their turn
- Skip card (8 in a deck)
- Wild card (4 in a deck)
  - Change the color in play with player's choice
- Wild draw 4 card (4 in a deck)
  - Wild card combined with +2 but with 4 cards instead
- Reverse card (8 in a deck)
  - Change turn order
- 19 cards of each color (red, yellow, green, blue)
  - One 0 card, two cards each for 0 - 9
- Having the player only play cards that match the color or number at the top of the discard pile (draw a card otherwise)
  - Players can only play cards when it is their turn
- Turn order starts clockwise
  - Normally player to the right of dealer goes first, but since deck is shuffled by computer, first player is chosen randomly
- Having the first card of the deck be drawn for the beginning of the game
- Game can be played by a minimum of 2 players up to a maximum of 10

Technologies used:
- Render
- Node.js
- Express.js
- Postgres

Wireframes:

Lobby / Signed in

Jump to create room page →

Create Room

User ← Click here to open or close chat, see stats, or log out

Win rate
Close chat
Log out

Open Rooms:

Room 1 3/6 players Join
Room 2 0/6 players Join ← join a game
Room 3 5/6 players Join

< page 1 of 10 > Search by Room #: [____]

chat

P1: ~~~
P2: ~~~
P3: ~~~
P1: ~~~
YOU: [_____]

Game room

Click to exit game ↓

Quit Game

User

| P1 | P2 | P3 | P4 |
| 3 | 8 | 1 | 4 | ← # of cards a player has

where turns → P4's turn   [3] [ ] ← draw pile
are shown

Your cards ↓

[1] [⓪] [9] [+2]

Create room

click here to leave

Quit Room   Click here to tweak settings   User

Unique #
for sharing → Room #   Game Settings   # players: 4
                                          time limit: 20

P1   P2   P3   P4
win rate   win rate   win rate   win rate

Start Game

Jump to actual game

Login

Login:

Username:
Password:

Create Account

Username: [_____]
Password: [_____]
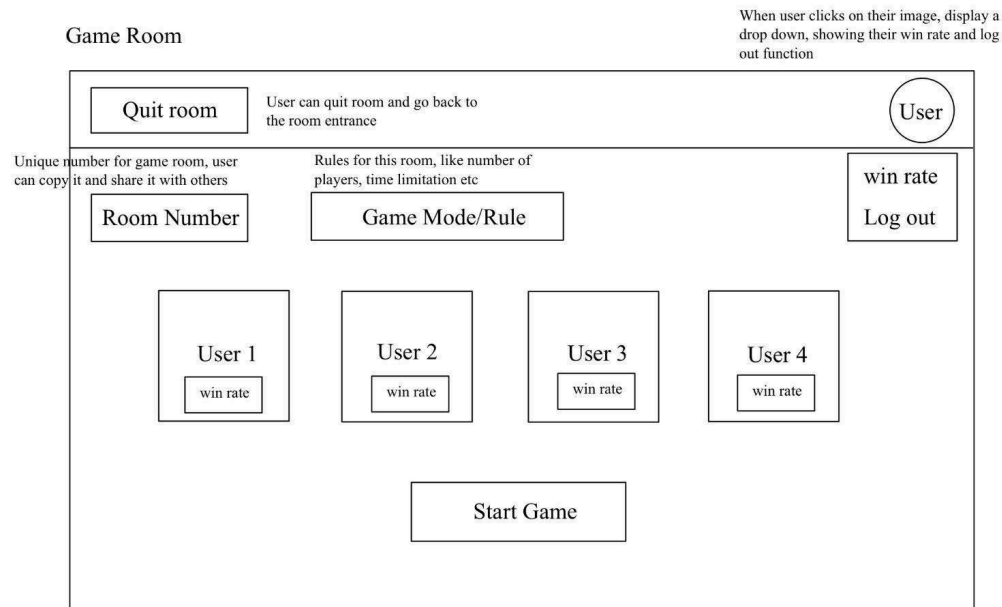Confirm Password: [_____]
Email: [_____]

[Sign up] [Login]

UNO
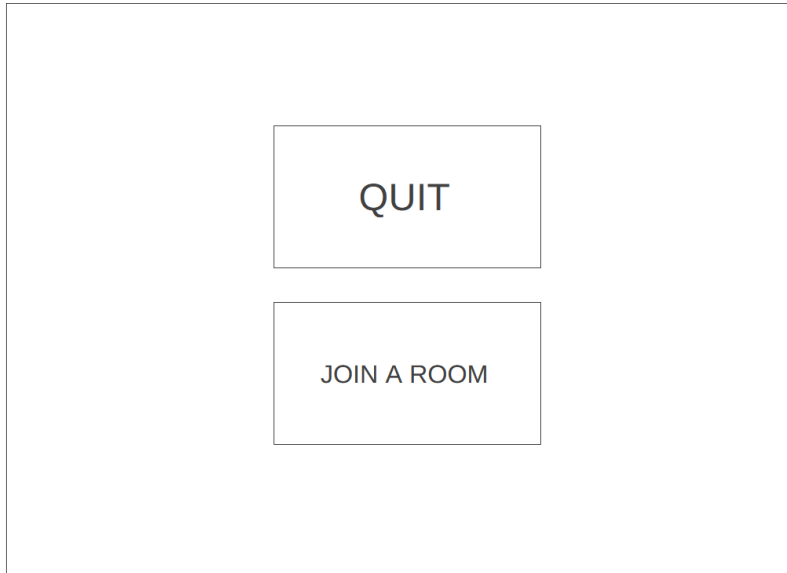
Play UNO online

Open rooms:
Room 1 2/6 players ☐
Room 2 0/6 players ☐
chat

Chat with friends

Create rooms

[Join Now!]

QUIT

JOIN A ROOM

Game Room

When user clicks on their image, display a
drop down, showing their win rate and log
out function

Quit room   User can quit room and go back to
             the room entrance

User

Unique number for game room, user
can copy it and share it with others

Rules for this room, like number of
players, time limitation etc

win rate

Room Number   Game Mode/Rule   Log out

User 1   User 2   User 3   User 4
win rate   win rate   win rate   win rate

Start Game

Link to presentation: ▢ Milestone 1 Presentation