RDraw

Project Milestone 4

Team Number: 111
Team Name: Triple 1.0
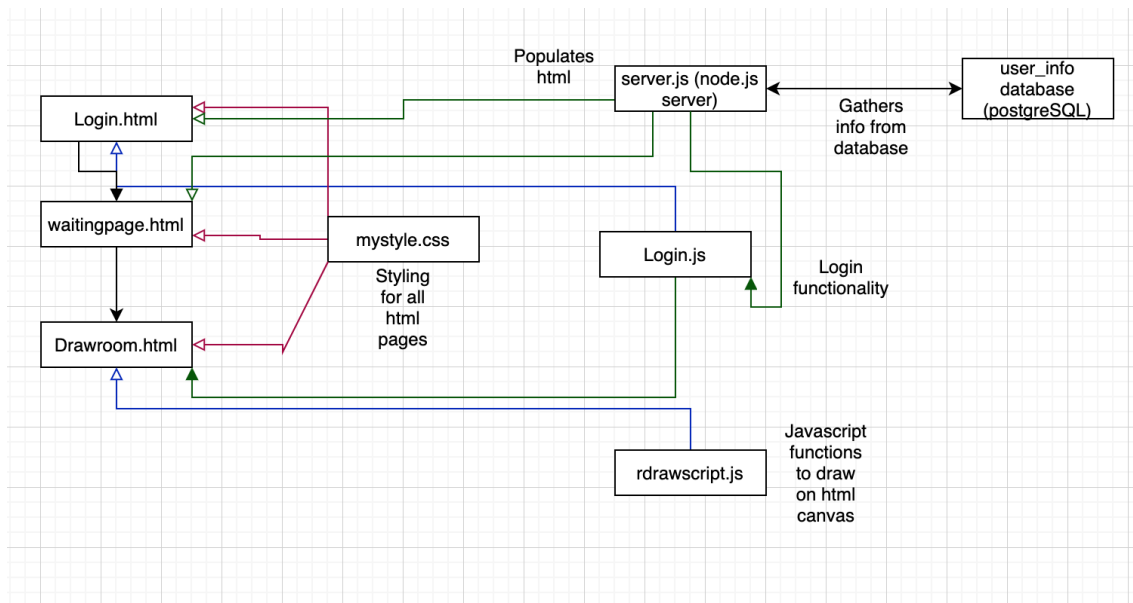Team Members: Jon Cohen, Alexandra Ferguson, Michelle Kim, Nathan Kregstein, Ramon Martinez, Gabriela Tolosa Ramirez
Application Name: RDraw

1. **Project Features List**
   - Drawing - **Priority: High**
     - Single shared drawing space for 2 users
     - Users will take turns drawing on single drawing space
     - Ability to draw with different colors (buttons)
   - Ratings - **Priority: Low**
     - Ability to rate the drawing collectively
   - Connecting users - **Priority: High**
     - Either based on mood or randomly will pair two users together
   - Chat - **Priority: Medium**
     - Simple chat that allows users to send text messages to each other
   - Exporting a final image to save locally - **Priority: High**
     - Choice to save the artwork you created.
     - Save as a JPEG
   - User profiles - **Priority: High**
     - Separate user accounts similar to a social media site
     - Ask for name, email, password
     - Use a database to store these

2. **Architecture Diagram**

3. **Front End Design**

The front end design for our project was initially created as a wireframe before implementing it into HTML code. We have the features of login, drawing(changing brush size

and color) as well as user profiles in html code. In the wireframe we have the rest of the features later to be implemented such as ratings and chat.
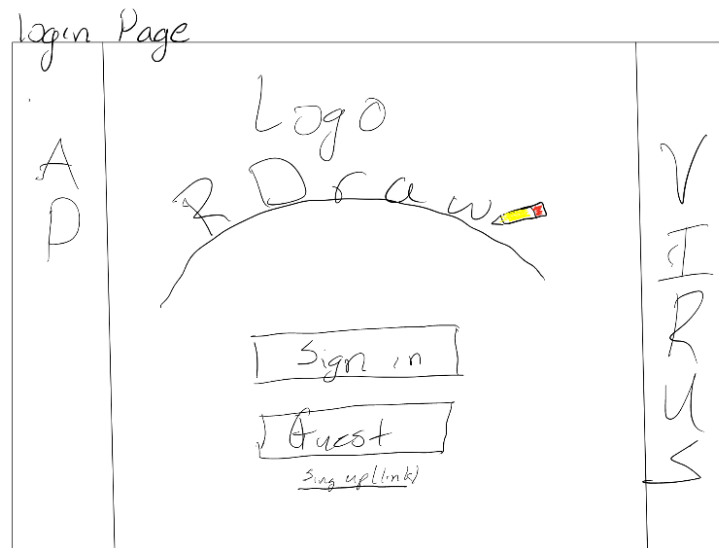

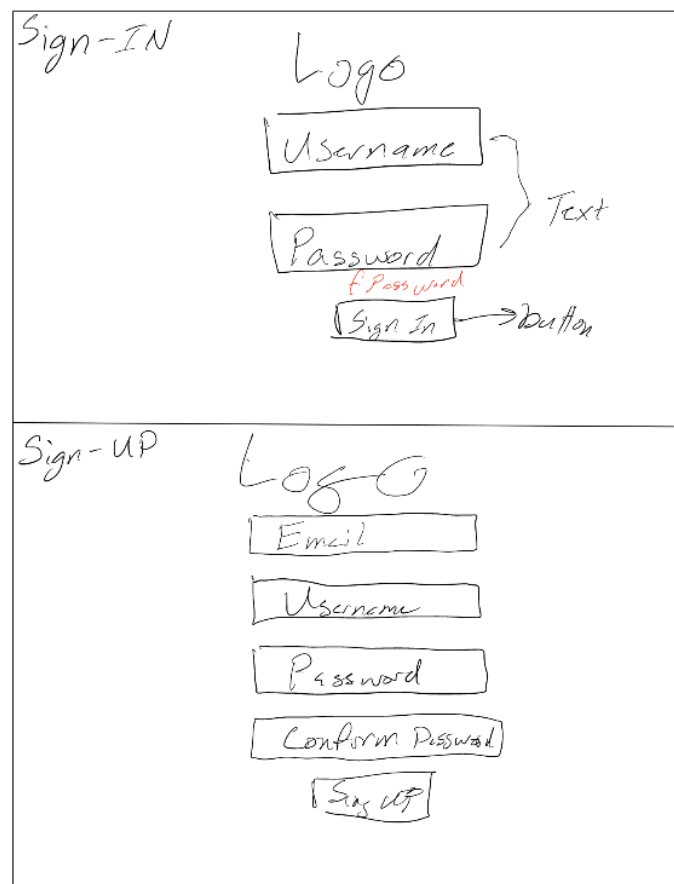Figure 1: Wire Diagram of RDraw Login Page

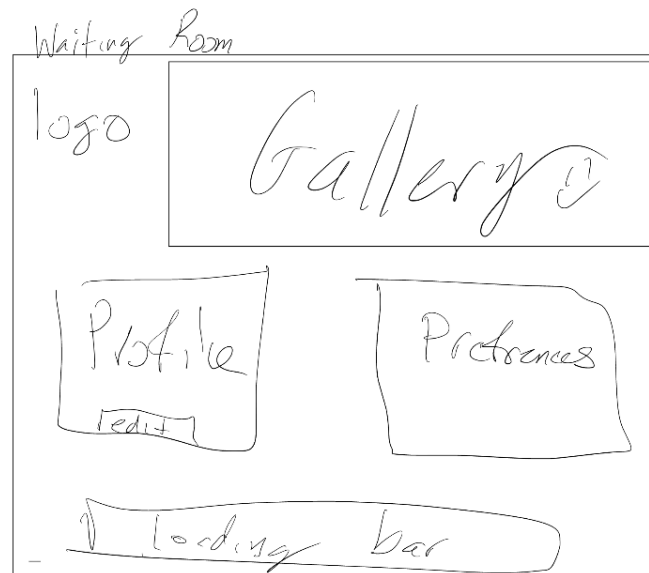Figure 2: Wire Diagram of RDraw Sign-In/Sign-Up Page

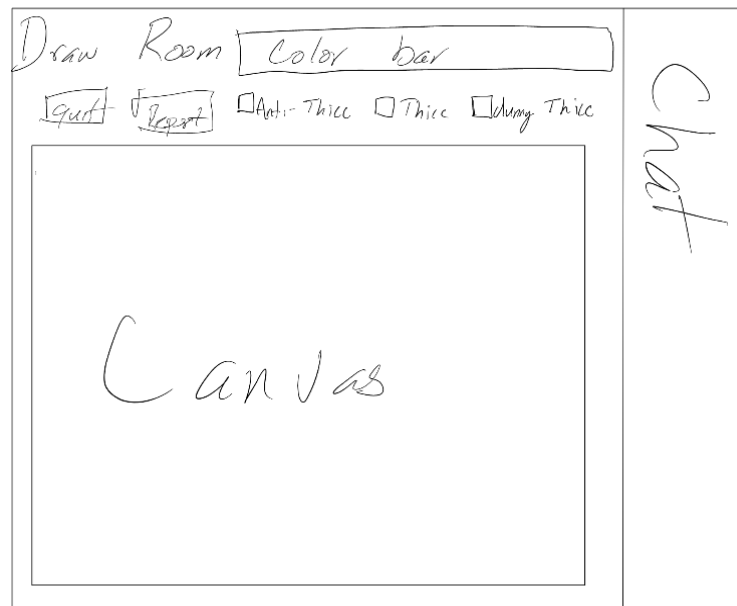Figure 3: Wire Diagram of RDraw Waiting Room Page
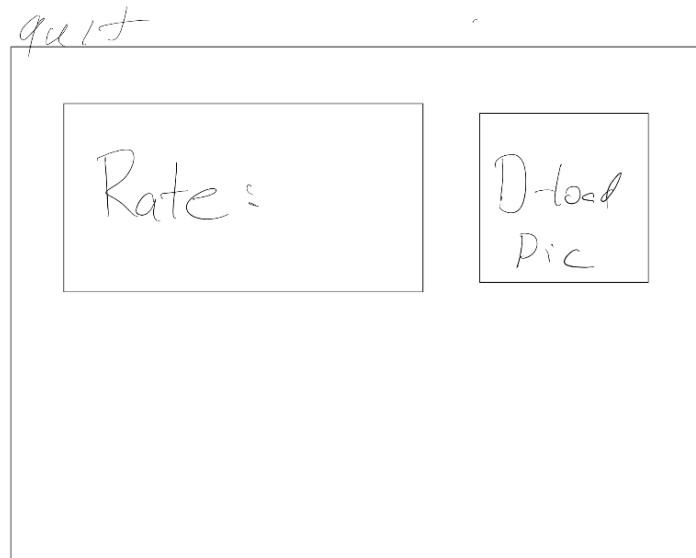

Figure 4: Wire Diagram of RDraw Draw Room Page
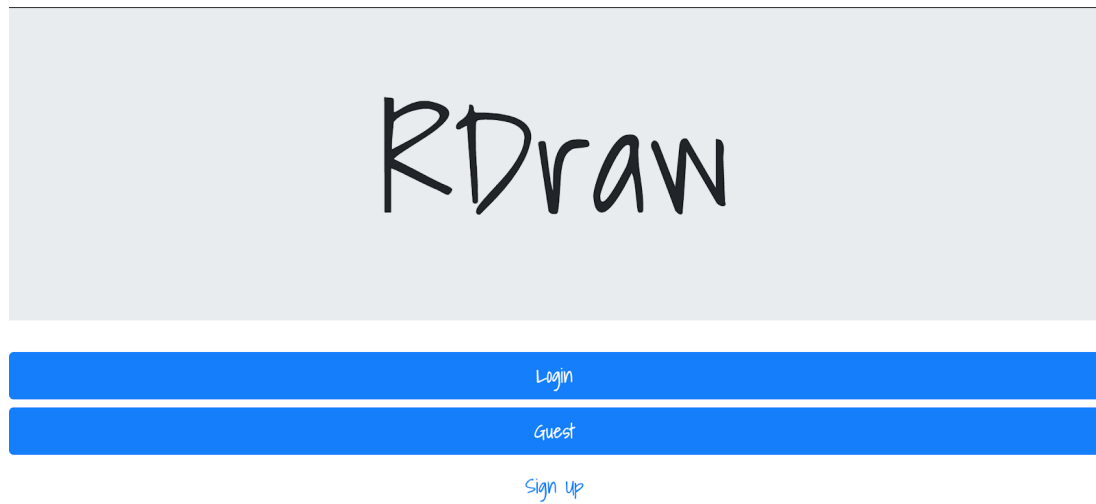
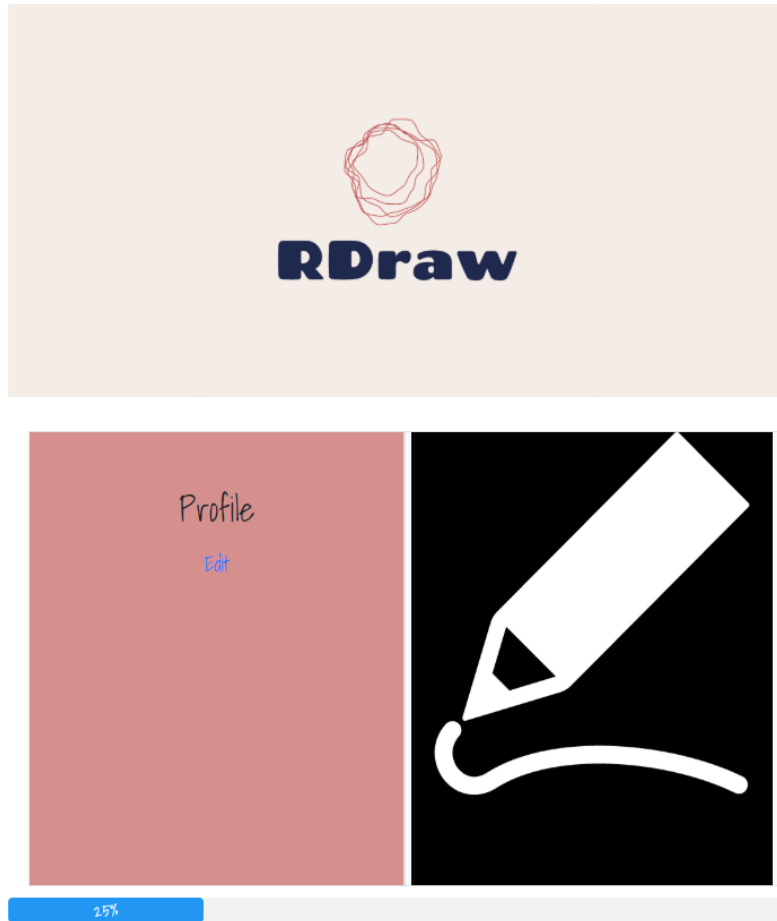Figure 5: Wire Diagram of RDraw Quit Page

Figure 6: Login Page Display in HTML

Figure 7: Waiting Room Page Display in HTML

Figure 8: Drawing Page Display in HTML

4. **Web Service Design**

We will not be implementing an API for RDraw, as it was deemed not necessary for our web app to function properly.

5. **Database Design**

Below is an Entity Relationship Diagram that shows the overall database design:

User

user_id: integer
last_name: text
first_name: text
user_name: text
password: text
photo: image
age: integer
email: text

Rating

rating_id: integer
user_id: integer
rating: integer

Key

● primary key
● foreign key

User_Host

user_id: integer
host_id: integer
user_name: string

User_Guest

user_id: integer
guest_id: integer
user_name: string

Chat

chat_id: integer
host_id: integer
guest_id: integer
message: text