

Poker Game Website

Team JKLS



Today's Agenda

Technical Details and Game Functionality

- Tech Stack
- Authentication and Sessions
- Lobby and Gameroom Chats
- Game State Persistence
- Game Data Flow

Game Demo

Discussions and Insights

- Discussion of Difficulties Encountered
- Discussion of Learnings

Technical Details & Game Functionality

Technologies used for Development

Tech Stack:

- Render
- [Node.js](#)
- [Express.js](#)
- Postgres
- CSS

Authentication and Sessions

Users can create account

- Register page
- Users need:
 - Username
 - Email
 - Password
 - Profile Picture (optional)



Register

Username:

ben2

Email:

Password:

Profile Picture:

Choose File

no file selected

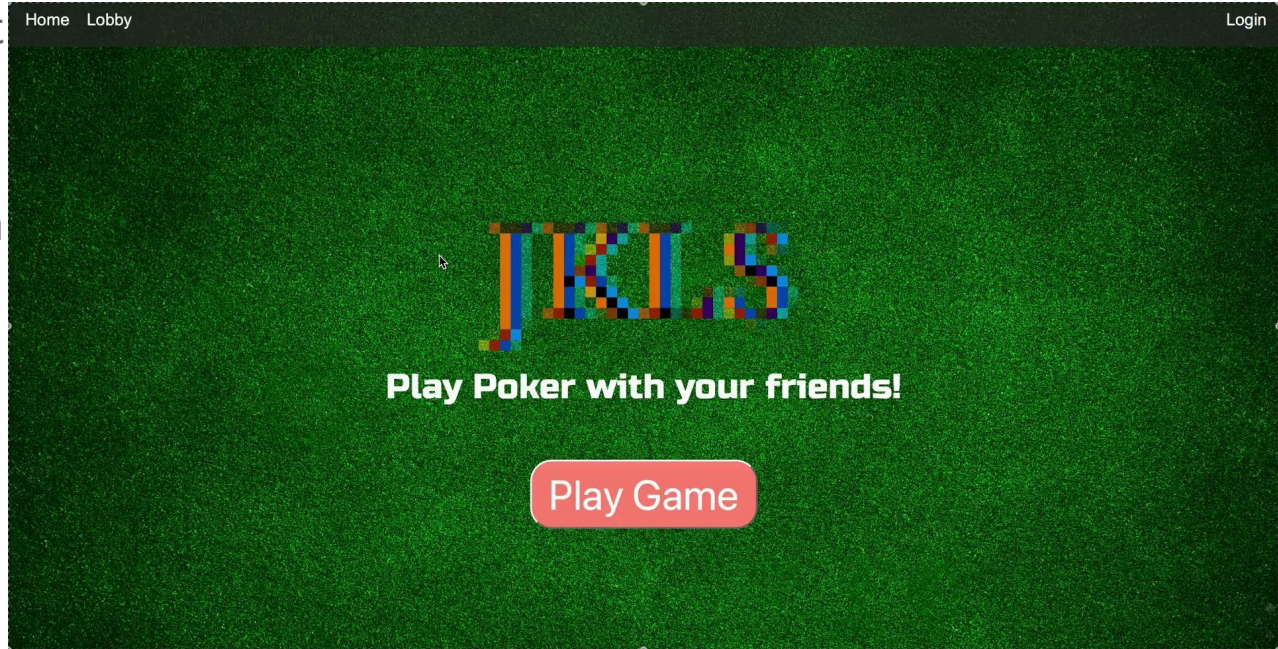
Register

Already have an account? [Login here](#)

Authentication and Sessions

Users can login and logout

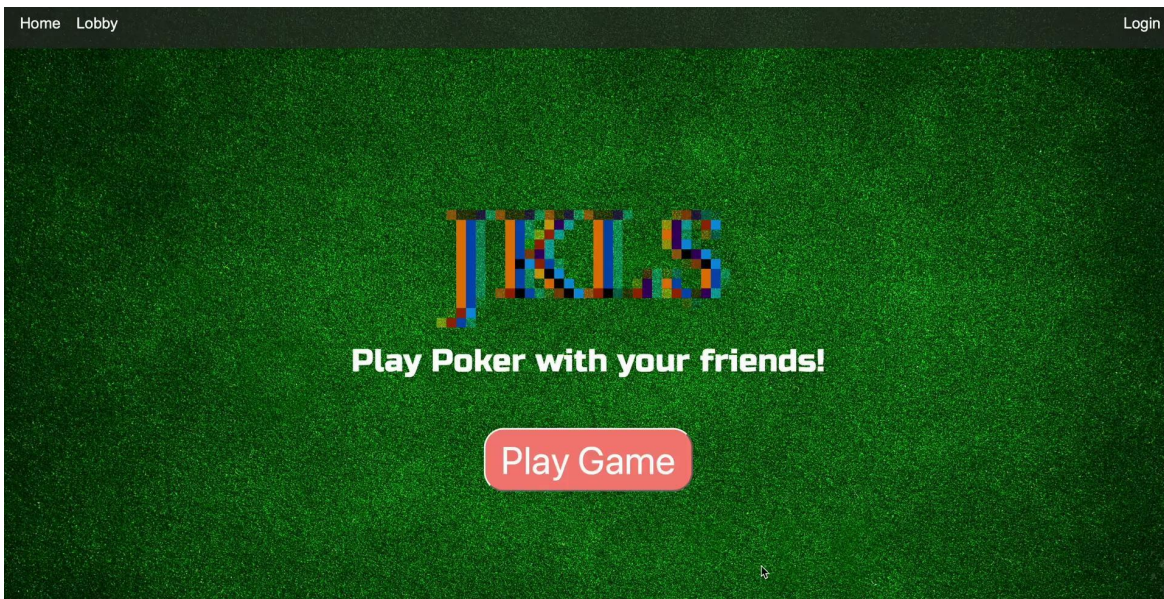
- They can login from Home Page and Login Page
- They can logout from Home, Lobby, and Game rooms



Authentication and Sessions

Account is protected from pages it shouldn't have access to. For example,

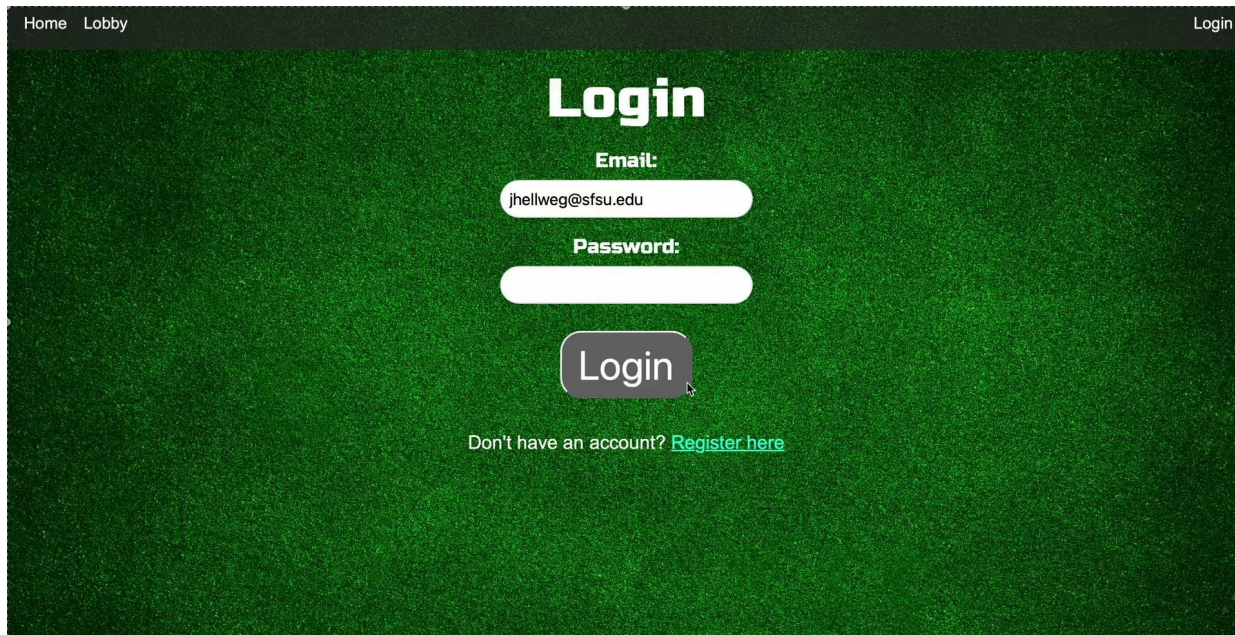
- Lobby Page redirects to the Login page if user is not logged in.



Authentication and Sessions

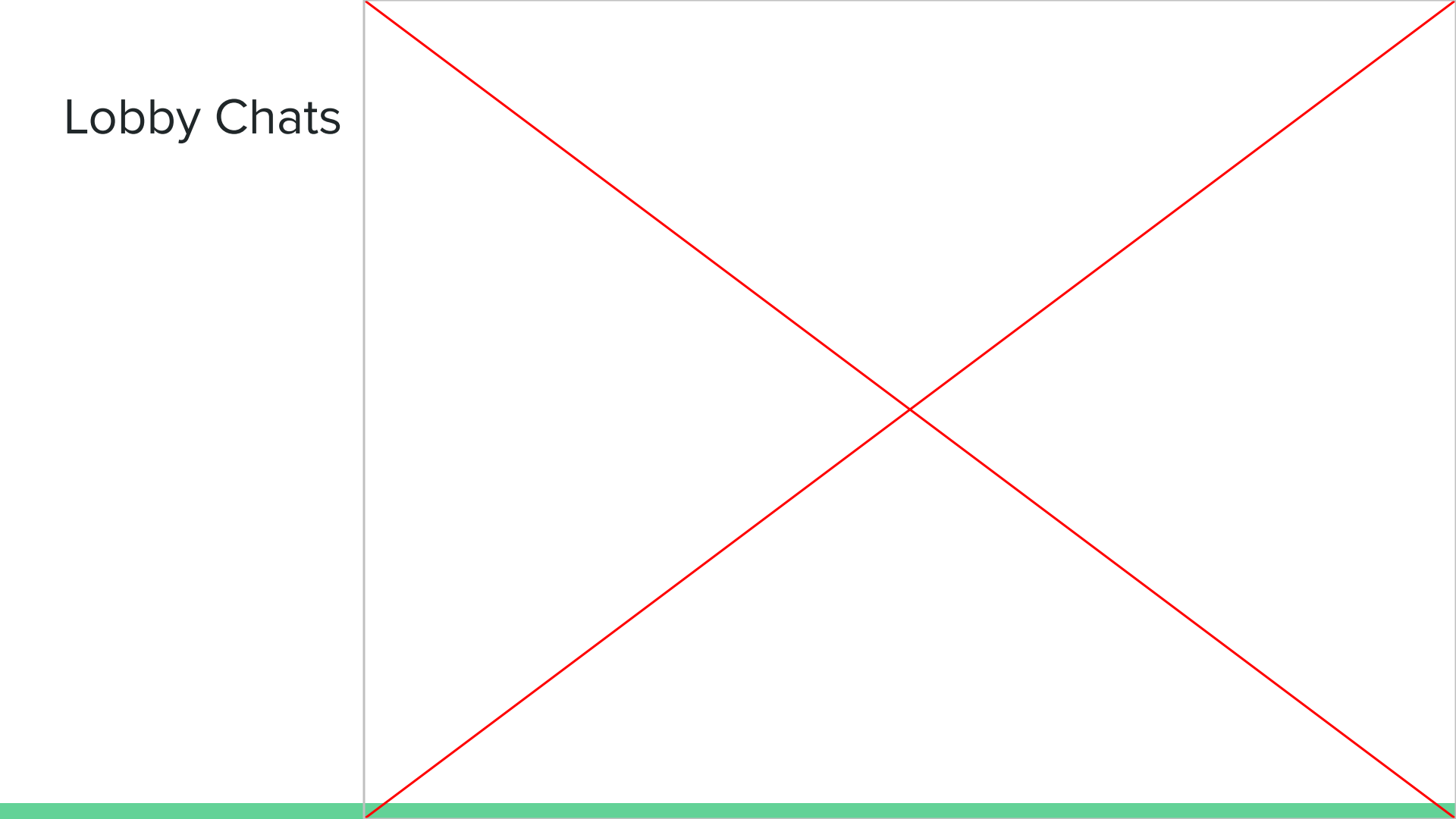
Account is protected from pages it shouldn't have access to. For example,

- Need to enter correct passwords to login and enter a private game that has a password

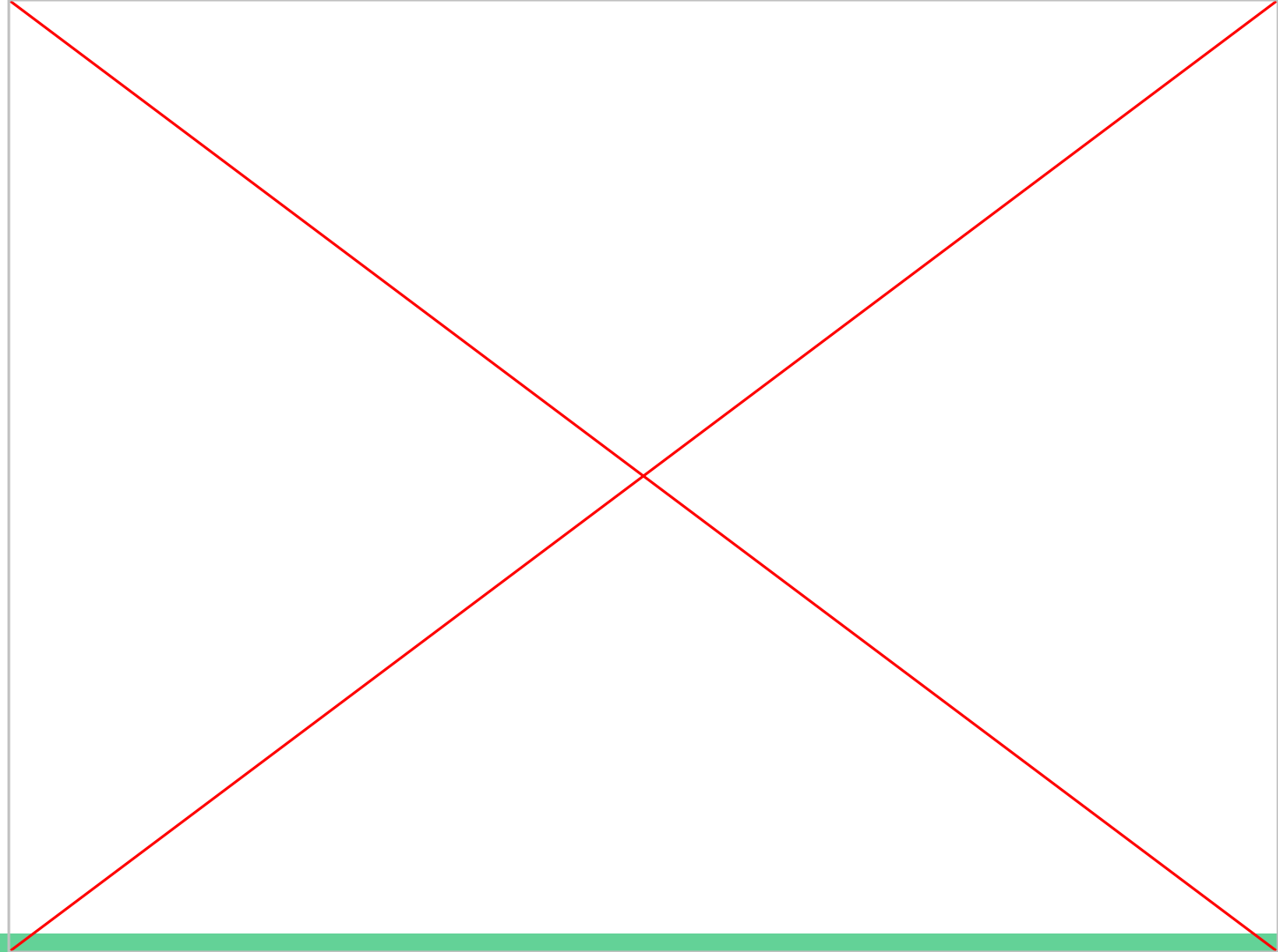


The screenshot shows a web application interface with a dark green grass texture background. At the top, a black navigation bar contains the links "Home" and "Lobby" on the left, and "Login" on the right. The main content area features the word "Login" in a large, bold, white font. Below it, the label "Email:" is followed by a white input field containing the text "jhellweg@sfsu.edu". Underneath, the label "Password:" is followed by an empty white input field. A dark grey "Login" button is positioned below the password field. At the bottom, the text "Don't have an account?" is followed by a blue, underlined link "Register here".

Lobby Chats



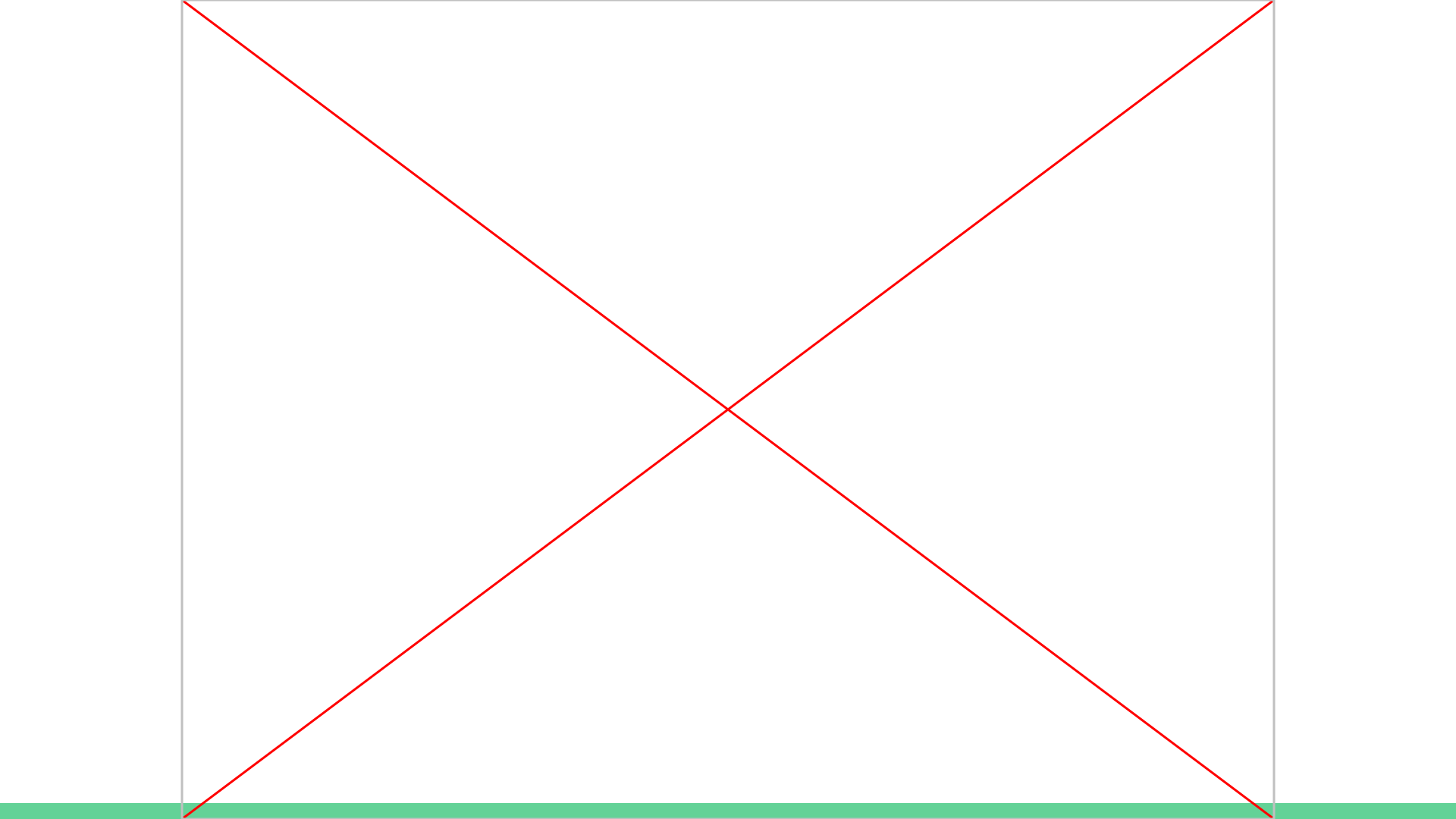
Gameroom
Chats



Game State Persistence

You can leave a game or log out, and then rejoin the room (after logging in) and it will save the state of the game.

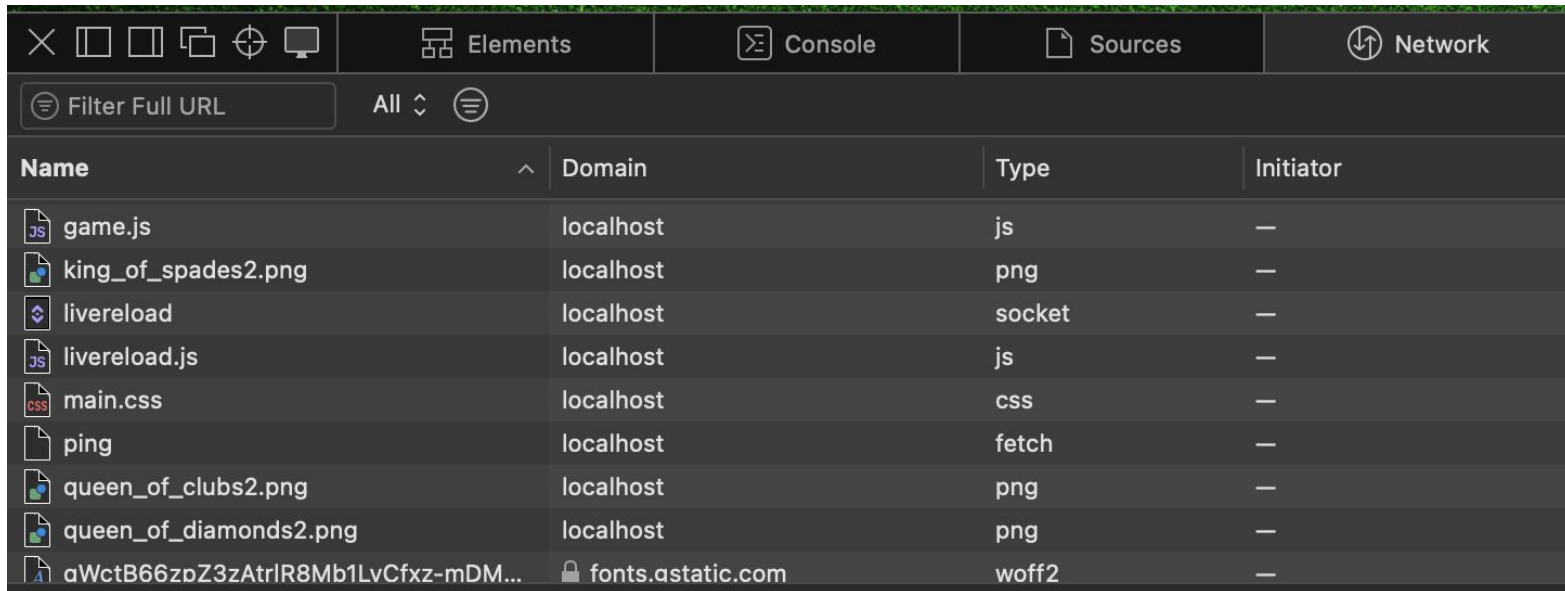
- Next page shows an example that it saves whether a game has been started or not.



Game Data Flow

Server sends HTML pages containing CSS, JS, etc.

- Network Screenshot:



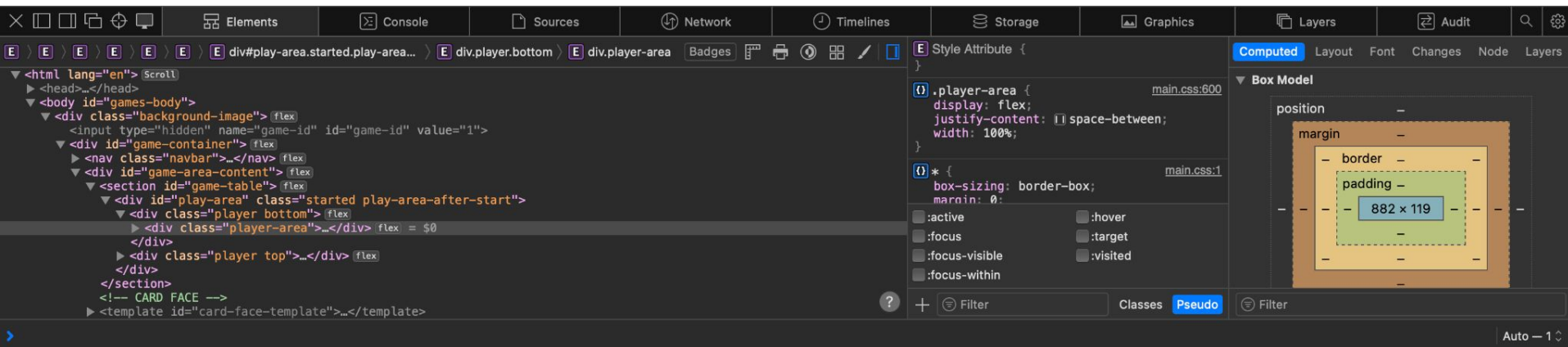
The screenshot shows the Network tab of a web browser's developer tools. The interface includes a toolbar with icons for filter, reset, expand, copy, zoom, and view. Below the toolbar is a search bar labeled 'Filter Full URL' and a dropdown menu set to 'All'. The main area displays a table of network requests.

Name	Domain	Type	Initiator
game.js	localhost	js	—
king_of_spades2.png	localhost	png	—
livereload	localhost	socket	—
livereload.js	localhost	js	—
main.css	localhost	css	—
ping	localhost	fetch	—
queen_of_clubs2.png	localhost	png	—
queen_of_diamonds2.png	localhost	png	—
aWctB66zpZ3zAtrIR8Mb1LvCfxz-mDM...	fonts.gstatic.com	woff2	—

Game Data Flow

Server sends HTML pages containing CSS, JS, etc.

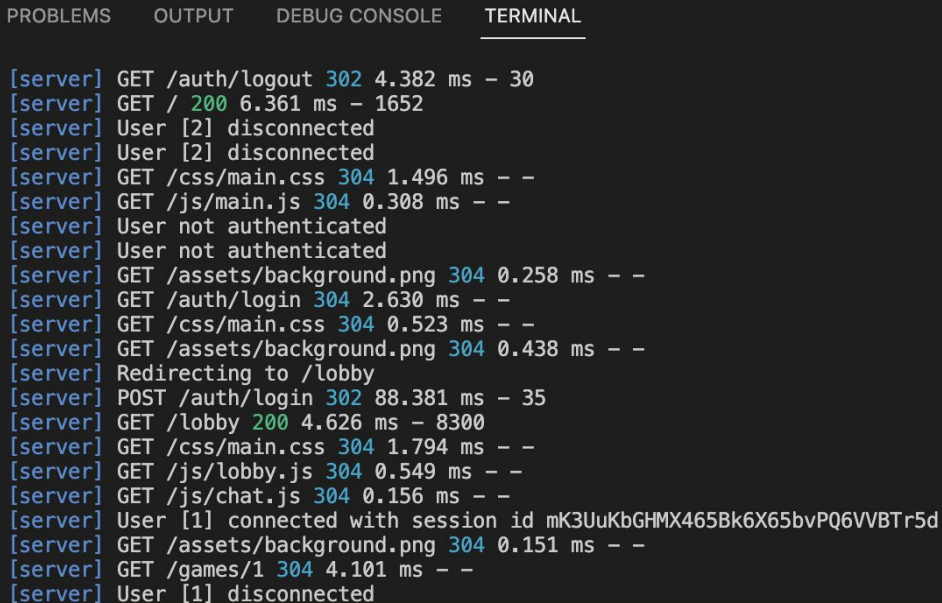
- Inspect Element Screenshot:



Game Data Flow

State changes are submitted asynchronously to the server using HTTP requests. The server is the source and the client doesn't hold any state information.

- Terminal Log:



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

[server] GET /auth/logout 302 4.382 ms - 30
[server] GET / 200 6.361 ms - 1652
[server] User [2] disconnected
[server] User [2] disconnected
[server] GET /css/main.css 304 1.496 ms - -
[server] GET /js/main.js 304 0.308 ms - -
[server] User not authenticated
[server] User not authenticated
[server] GET /assets/background.png 304 0.258 ms - -
[server] GET /auth/login 304 2.630 ms - -
[server] GET /css/main.css 304 0.523 ms - -
[server] GET /assets/background.png 304 0.438 ms - -
[server] Redirecting to /lobby
[server] POST /auth/login 302 88.381 ms - 35
[server] GET /lobby 200 4.626 ms - 8300
[server] GET /css/main.css 304 1.794 ms - -
[server] GET /js/lobby.js 304 0.549 ms - -
[server] GET /js/chat.js 304 0.156 ms - -
[server] User [1] connected with session id mK3UuKbGHMX465Bk6X65bvPQ6VVBTr5d
[server] GET /assets/background.png 304 0.151 ms - -
[server] GET /games/1 304 4.101 ms - -
[server] User [1] disconnected
```


Poker Game Demo



Discussions and Insights

Discussion of Difficulties Encountered

- **Scheduling Conflicts**

Different class times and workloads made it hard to coordinate meetings and collaborate consistently

- **Unclear Milestones**

Instructions on expected progress were vague, leading to uneven pacing and last-minute updates

- **Personal Challenges**

Team members faced health issues, family responsibilities, and job obligations that affected availability

- **Communication Gaps**

Inconsistent updates and unclear task delegation caused confusion and doubled effort

Discussion of Learnings

- **WebSockets**

Learned how to implement real-time communication for live gameplay using WebSocket connections

- **Middleware**

We gained more experience with using middleware to handle authentication, logging, and request processing in a modular way

- **Database Migrations**

We understood the importance of migrations for managing schema changes, syncing environments, and preserving data integrity