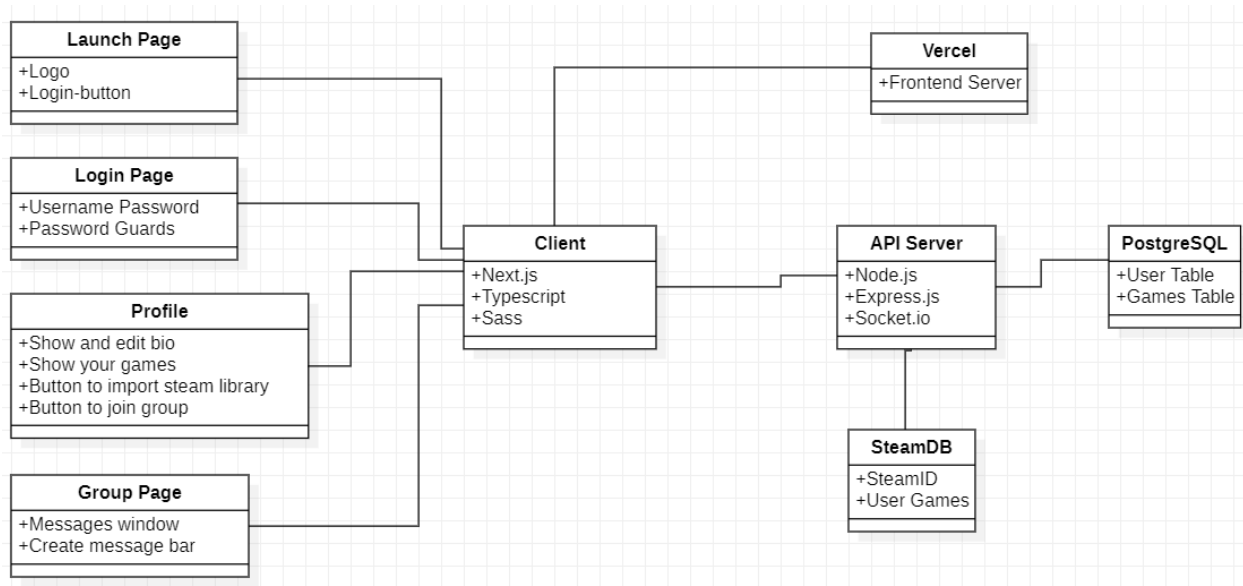


Project Milestone 4

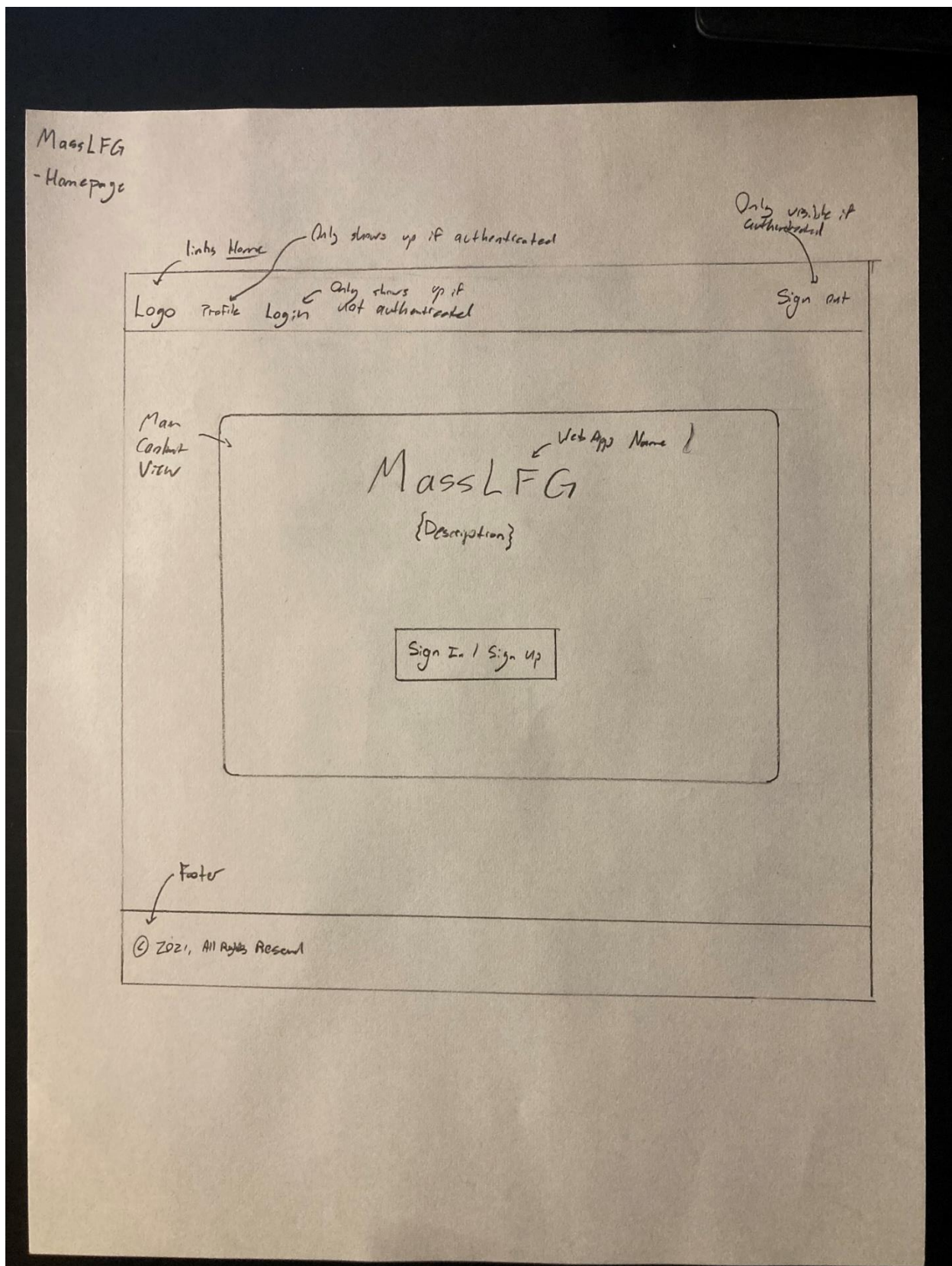
Feature List (features with highest priority are listed first):

- Import Steam Library
 - Description: MassLFG users are able to log into their Steam account to import their steam library. MassLFG uses these games to pair users into groups
- Group Chat
 - Description: When MassLFG users have been paired with a group, they are able to communicate with one another by means of a “group chat” style messaging window.
- Customize User Profile
 - Description: MassLFG users can easily customize their bio and the look and feel of the client interface.
- Account Registration
 - Description: Users will be able to create and log into dedicated accounts which hold information about their gaming preferences.
- Instant Group Finding
 - Description: When MassLFG users are ready to game, they simply hit the “Find Group” button which instantly pairs users with groups of gamers who are playing the same games.

Architecture Diagram



Front End Design



Mass LFG

- Login

Links to Home

Logo {No other links b/c not authenticated}

Auth -> Container

Mass LFG Smaller Logo

Username

↑
Username Form input

Password

↑
Password Form input

Sign In / Sign Up

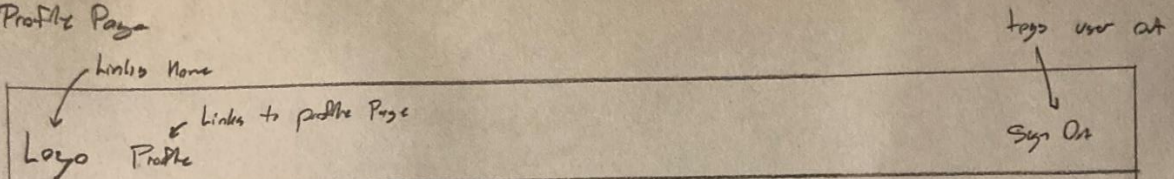
↑
Authenticate Button

Footer

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Moss LFG

- Profile Page



Username

User bio, e.g. I'm a big fan of FPS games & the strategy games

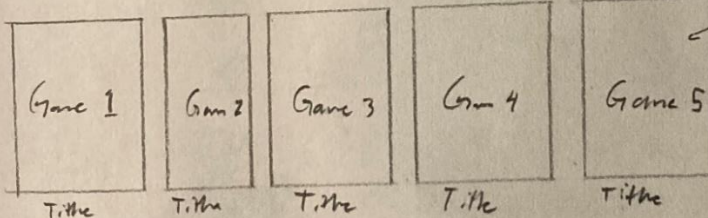
← Button opens modal to edit bio

Find Gaming Group

Button shows up after you select or input game preferences. Takes you to lobby where you'll find your panel w/ group

Your Games

← Button allows you to log into Steam & import your game libraries



Each game shows the game cover as etc.

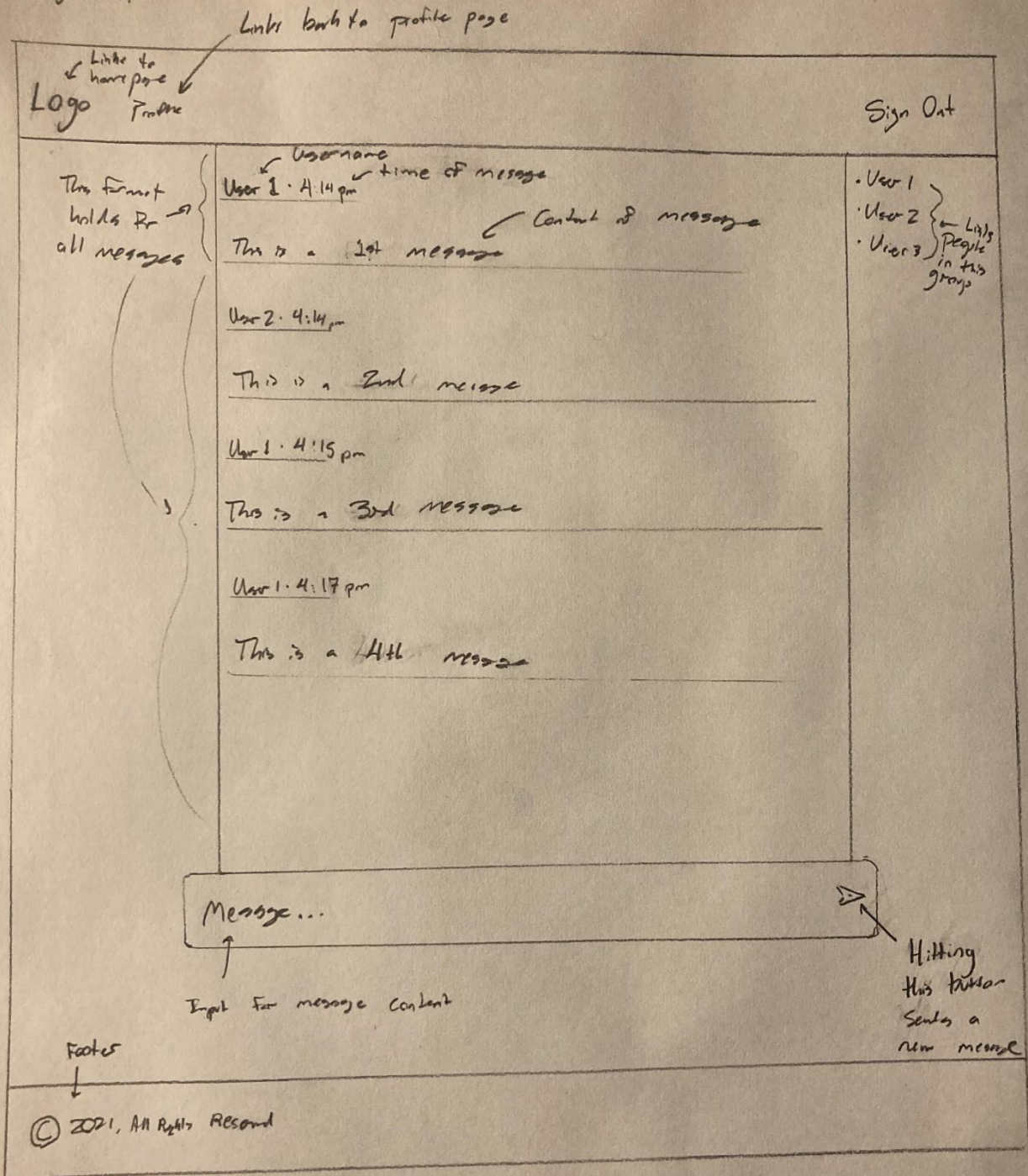
Footer

This is a list of your favorite games (you'll be paired w/ groups according to your preferences)

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Mass hFG

- Group Chat



Web Service Design

Steam: we're using SteamKit to allow users to log into their Steam accounts and then subsequently capture their Steam Account information in our Express server. We then use this information (specifically the user's SteamId) together with our Steam API key to query Steam's API for the user's public game library.

Database Design

We are using Postgres together with a docker configuration very similar to what we have been working with in the labs.

We will be using two main tables defined as below:

```
user_info (  
    username VARCHAR(200) PRIMARY KEY,  
    steamid VARCHAR(200),  
    bio VARCHAR(200),  
    password VARCHAR(200)  
);
```

```
games_info (  
    steamid VARCHAR(200) PRIMARY KEY,  
    gameid VARCHAR(200)  
);
```

The first table holds information about each individual user (including their steamid). We'll use this table for anything that requires user-specific actions.

The second table is a one-to-many table which associates users (by steamid) with the ids of the games in their steam library. We'll use this information to pair users into gaming groups.

Challenges

1. Steam Api: The Steam API is fairly finicky, and one of our group members got denied service to the API. As such, we only have limited access to information about games in the user's steam library
 - a. Backup Plan: Use the limited information for now (which does include game name) and look for other options to obtain more information about the games.
2. Pairing Algorithm: We're still trying to figure out how to efficiently pair users based on their preferred games.
 - a. Backup Plan: If everything else fails, we can simply use a very inefficient SQL query against Postgres to literally just find other users who have the same games in their library. It will work, but it's certainly not particularly "smart."
3. User Authentication: We're trying to figure out how to securely hold user information during authentication, as it's very poor practice to physically store passwords in a database.
 - a. Backup Plan: For now, we're just going to store the passwords themselves, and we get the correct behavior on the frontend, even if it is a very poor pattern.

Individual Contributions

- Danny Geisz:
 - Contribution: Used socket.io to complete messaging functionality on the frontend; added Express logic to handle Steam authentication and redirect; added components to show user games on the frontend.
 - Last Commit: <https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-014-02/commit/b647759b094c8eb504631c65985321635ab558ba>
- Aaron Grissom
 - Contribution: Helped integrate Steam authentication and API access in the Express server
 - Last Commit: <https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-014-02/commit/8eda73c516e29ac47f2c1926e5e9a818e8e229ed>
- Daniel Pearsall
 - Contribution: Planning docker deployment to Heroku
 - Last Commit: <https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-014-02/commit/647633f89b3019888ab0fbde05f89951c2c7f449>
- Oliver Doig
 - Contribution: Creating Postgres architecture; planning pairing algorithm
 - Last Commit: <https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-014-02/commit/9d5758fdf3ee70f03fc804f476c736ccbed59e9d>

Project Milestones

CSO 3308 Project Milestone 4

B00 board - Agile board - Jira

csi-3308-fall21-014-02.atlassian.net/jira/software/projects/B00/boards/1

Search

Create

Broncos-014-02
Software project

Roadmap

Backlog

Board

Code

Project pages

Add shortcut

Project settings

Projects / Broncos-014-02

Account Login

Create the user sign-up/login in flow using a very standard interface

0 days remaining

Complete sprint

Q

DG DP

Epic

Type

GROUP BY: None

Insights

TO DO 3 ISSUES

Impl server endpoint to create a user
800-20

Impl server endpoint to see if user has been created
800-22

Impl server endpoint to fetch user's login information
800-23

IN PROGRESS 1 ISSUE

User creates an account by inputting a username and a password
800-12

REVIEW 2 ISSUES

Impl database query to add new user to the Users table
800-21

User logs into MassLFG using their username and password
800-13

DONE 1 ISSUE

Impl form on frontend that captures name and password, and send this information to the server
800-19

You're in a team-managed project

Learn more

Quickstart

7:58 PM