

**Application Name:**

SkiTracker

**Team Name:**

The Ski Dream Team

**Team Members(firstname, lastname, github username, email):**

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**Application Description:**

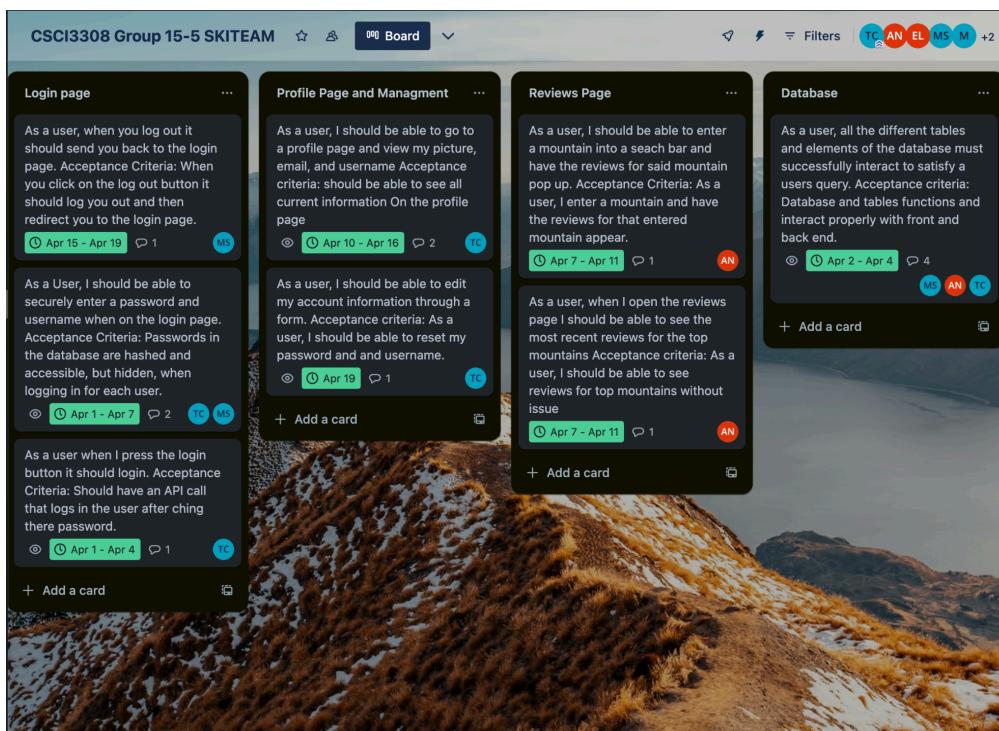
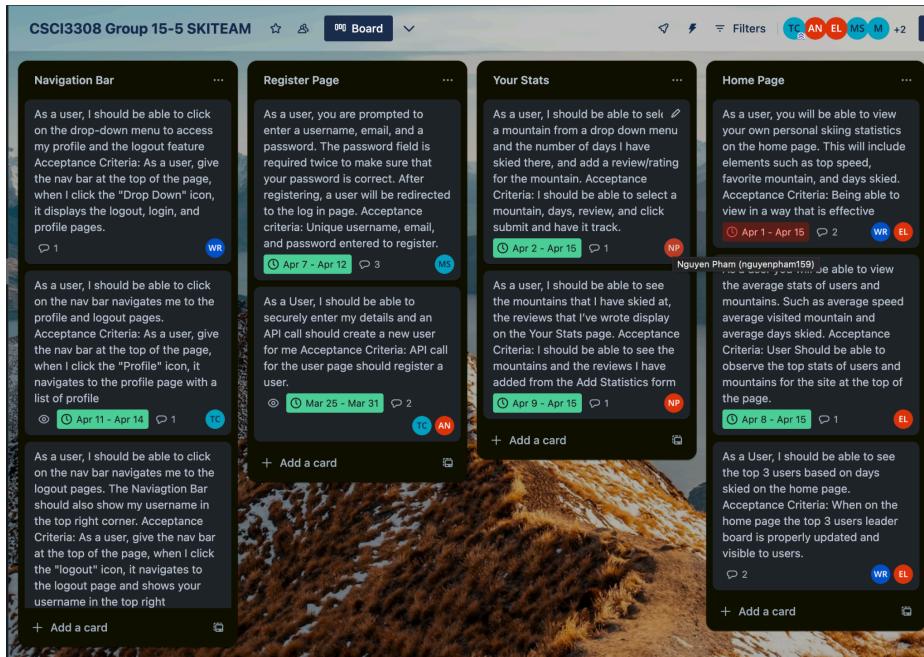
The SkiTracker is an application that presents information to the user about skiing. The user can add their ski information and our website will show how they compare to other users. In this application the user will be able to view reviews for different mountains and create reviews themselves. The user will be able to see where they rank against other users in categories such as speed, days skied, mountains visited, etc. The user will also be able to change their information.

**Version Control:**

<https://github.com/Ty3thousand/CSCI3308Group5SkiTracker>

## Project Tracker:

<https://trello.com/invite/b/ffotMORY/ATTIb6d98badc9598cceeb0eba5a6d73fe080375F6B0/csci3308-group-15-5-skiteam>



## Video:

Watch the video with this link <https://youtu.be/m7yUOWFtVOk>

## **Contributions:**

Tyler Campbell: I worked on the database with the create and insert files with Max. After working on the database and its setup I implemented the login page as well as the API for the register page. This later had to be updated again to save the user to use in other pages and functionalities. I then worked on the front and back end of the profile page and implemented the API and also the viewing for that page. Finally, I provided support for the new stat page and homepage to display some functionality better after adding new stats.

Ananya Nepal: I worked on the reviews page. This included the SQL queries and getting a base design for the page. Along with this I helped get certain aspects of the database functional. This included bug fixes and general functionality. Along with everyone else I helped get wireframes and general design to a level that we were all satisfied with. I helped get the github readme complete.

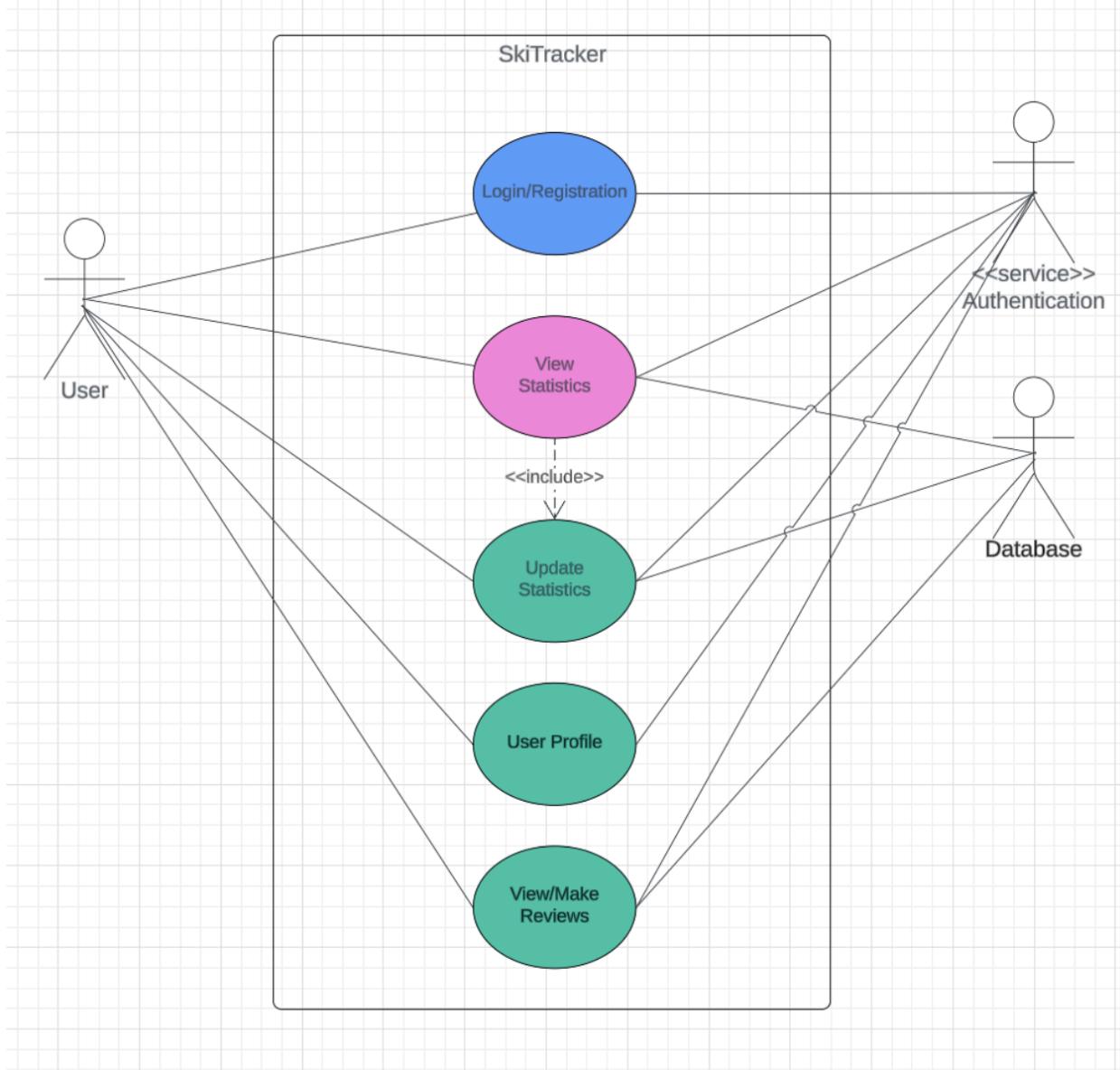
Winter Russell: I worked on the Homepage backend mostly, which included queries and API calls for user statistics. I worked a little on the database—mostly with bug fixes and small edits for succinctness in queries—and did clerical work in the form of working on project powerpoint presentation and parts of the project report. I also helped when needed with other sections.

Emerson Liu: I worked on both the Homepage frontend and backend, but mostly the frontend portion. I created the original styling for the homepage, including handlebars, creating cards, leaderboards, etc. I also helped with the backend, including the queries for finding the averages of the users and how the data is saved. Additionally, I came up with the original plan and design visualization for the website.

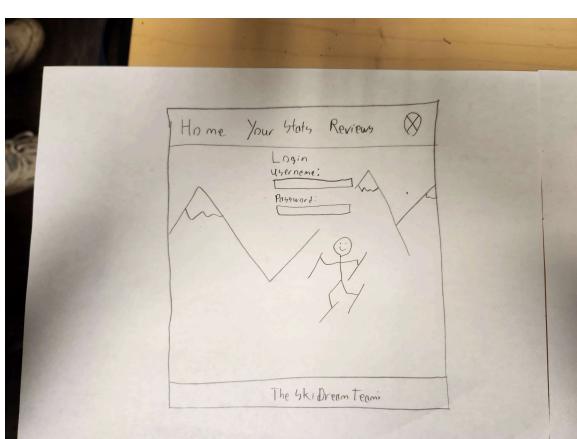
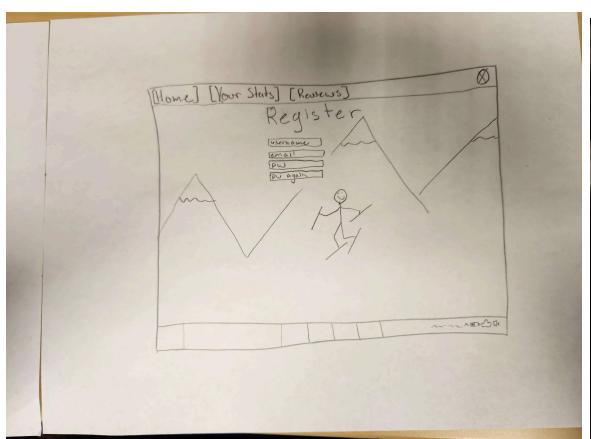
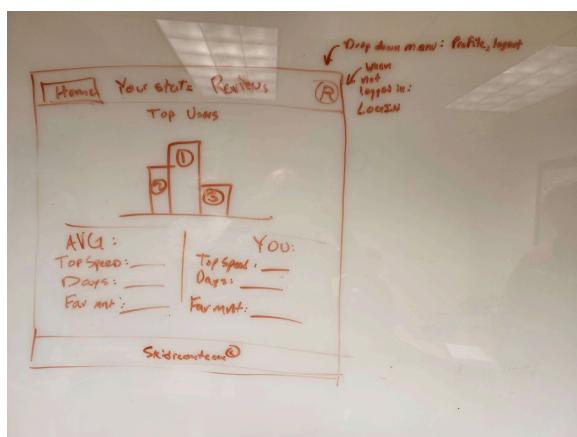
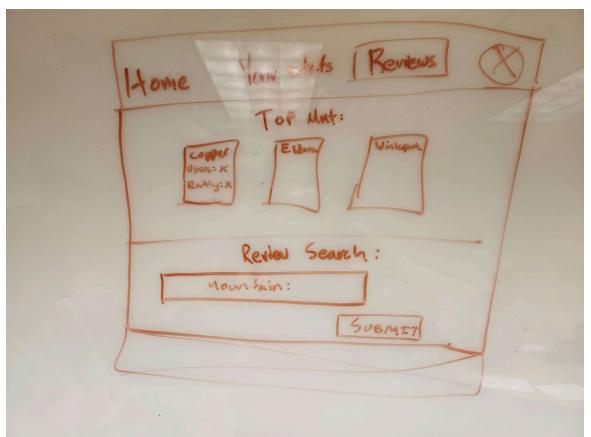
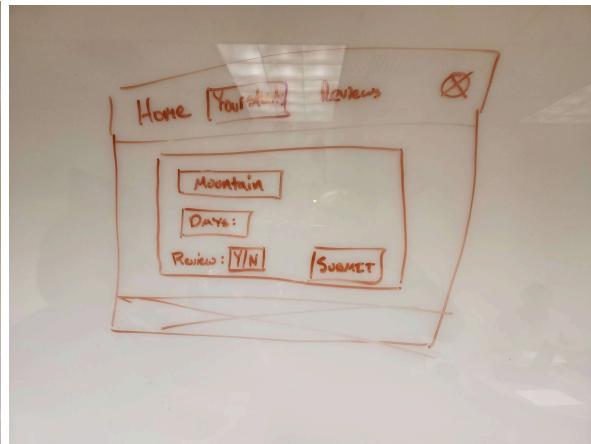
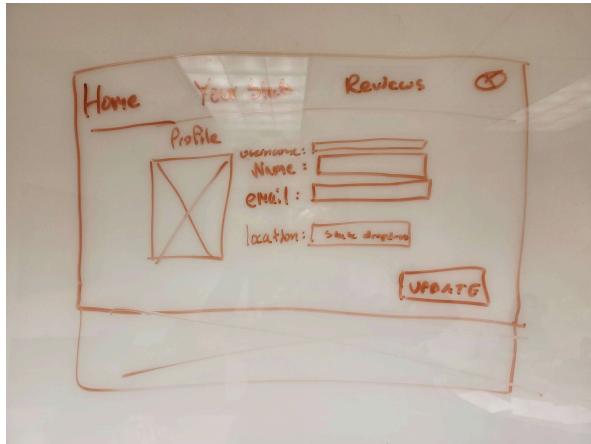
Nguyen Pham: I worked on both the frontend and backend of the Your Statistics page. For the frontend, I created a form where the user can choose a mountain and add related information, and write a review and rate the mountain. On the backend, I inserted and updated new data to the database tables in order for the user's information to display correctly on the Reviews and the Home page.

Maxwell Sherman: I worked on front end functionality for login and register, I worked on front end styling for all pages including the background, fonts, aligning, etc. I also wrote create statements for the database as well as working on the database design. I also assisted here and there when a team member needed assistance with a section.

## Case Diagram:



## Wireframes:



## **Test Results:**

Login:

Test Data: Logging in with username and password created when registering

- Testers will use pre-authorized accounts (username, password) to login and test the functionality
- Testers will also use “fake” accounts to login to ensure site does not wrongly login users

Test Environment: Localhost – testers will run website locally testing the accounts already made in the database

Test Results: User should be able to correctly input credentials, when already registered under such credentials, and presented the home page. When incorrectly inputting credentials users will not be logged in and be prompted to register. Users' credentials will be stored and hashed in the database to ensure security.

User Acceptance Tester Info: Users will be provided with account credentials already in the database and asked to login using those credentials, users will also be asked to login with random credentials of their choice to ensure the website does not incorrectly log users in when provided credentials not already in the database.

**Observations:** **Users were able to register an account and then log in with that account’s credentials. They were able to do this intuitively with no input from the test’s proctor—some users attempted to access other pages before logging in, but quickly realized they could not do so until they logged in. This is consistent with our use case for this feature, and the “deviations” users took (attempting to access other pages) were accounted for prior to testing. No changes were made or deemed necessary.**

Reviews:

Test Data: Any mountain able to be selected from the drop down menu located in the center of the Reviews page. This is a list that is pre-generated by us.

Test Environment: Localhost—testers will be given the locally hosted version of the Ski Tracker to perform user acceptance testing.

**Test Results:** A set of pre-generated reviews will be made and inserted into the database. Users should be able to input a mountain's name through a drop down menu and, after submitting that, be presented with the reviews for that mountain sorted by rating. If the functionality is not working, reviews will either not appear or not all reviews will appear.

**User Acceptance Tester Info:** Users will be given information about the functionality of the review page; i.e. that they can select a mountain from the dropdown menu in the center of the page to view reviews, loaded in a grid, about that mountain. They will not specifically be provided with the exact functionality of other features/pages, but due to the fact that most of these are self explanatory and obvious, UA testers might intuit other functionalities. We will ask friends and other students for help with testing.

**Observations:** **Users were able to access and view reviews with no issues, and did so intuitively. Once on the review page, the drop down menu provides a very clear input requirement for users to interact with. Users who had used the New Stats page—our page for inputting user information on ski days—and chose to leave a review were able to find that review without issue, and had no issues in general with the page. There was no unexpected behavior, and no changes were necessary.**

Your Profile:

**User Acceptance Criteria:** As a user I should be able to see my profile information and be able to change it.

**Test Case:** Can a user update information on the profile page

**Test Data:** A profile from the User database

**Test Environment:** Localhost/Cloud. We want to be able to see if the users are able to change their information by interacting with the website which can be done through localhost, but in order to see if the database is updated correctly it will need to be checked on the cloud.

**Test Results:** Users should be able to change their specific profile in the database without it affecting other entries in the database. This change should be reflected in your profile page by showing the user their new email and username if they changed it.

**User Acceptance Tester Info:** Users are given the profile page after logging in and are told to change their information. No other information is needed since users should be able to determine how to change their profile based on the website page. UA testers will be from University of Colorado Boulder with a variety of majors and departments.

**Observations:** Users were able to change their account information with no difficulty, and could see those changes reflected upon saving/refresh. Some users asked about the inability to change their username—this was expected, however, as this feature had to be cut due to the level of complexity required for implementation. There were no unexpected or unaccounted for actions users took in this test, and while allowing for username changes was discussed, it was decided against for the above reason.

## **Deployment:**

The SkiTracker is not currently up on the cloud but after completing the steps to run locally use this link: <http://localhost:3000/login>

- After downloading the code do the following:
- Make sure docker is open and has no running containers
- Open a terminal
- Set the directory to 'ProjectSourceCode'
- Run the following: docker compose up -d
- Open your browser and search: 'localhost:3000'
- Enjoy!

## **Read ME:**

Read ME can be found on our GitHub

<https://github.com/Ty3thousand/CSCI3308Group5SkiTracker>