Study Circle

Nathan Mahary, Layla Seefried, Matusala Tewelde

Project Description

Study Circle is a networking platform designed to help students collaborate and succeed academically. By leveraging shared course data, the application connects students with peers who share similar academic goals and interests, fostering meaningful study partnerships.
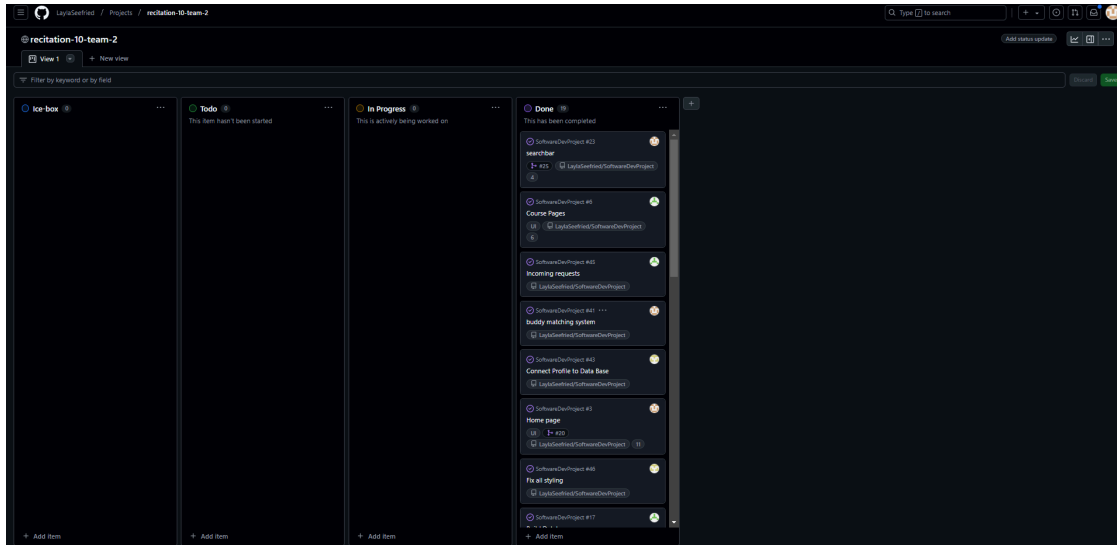
One of the key features of Study Circle is the ability to search for CU Boulder computer science courses and add them to your profile. Once courses are added, users can see other students enrolled in the same classes and reach out to them to form study groups. This feature simplifies the process of finding study partners by directly connecting users based on shared academic pursuits.

In addition, Study Circle offers a personalized recommendation system. On the home page, users are presented with a list of suggested study buddies based on overlapping courses and interests. This ensures that students can easily connect with peers who align with their academic needs, encouraging more effective and targeted collaboration.

With its intuitive interface and focus on fostering academic connections, Study Circle aims to create a supportive environment for students to network, collaborate, and excel in their studies.

Project Tracker

https://github.com/users/LaylaSeefried/projects/2/views/1

Video

https://github.com/LaylaSeefried/SoftwareDevProject/blob/main/Study%20Circle.mp4

VCS

https://github.com/LaylaSeefried/SoftwareDevProject.git

Contributions

Layla Seefried:

Layla implemented the home page, including the search bar and its required routes, as well as the header and footer with most of the overall styling. She rebuilt the register page as our database changed, contributed to profile editing, and developed the "other user" pages accessible through the courses page. Layla ensured the add course routes updated users correctly and wrote the create.sql and insert.sql scripts to provide sample data for the group. She primarily worked with Handlebars, Node.js, Express, and SQL to implement these features effectively.
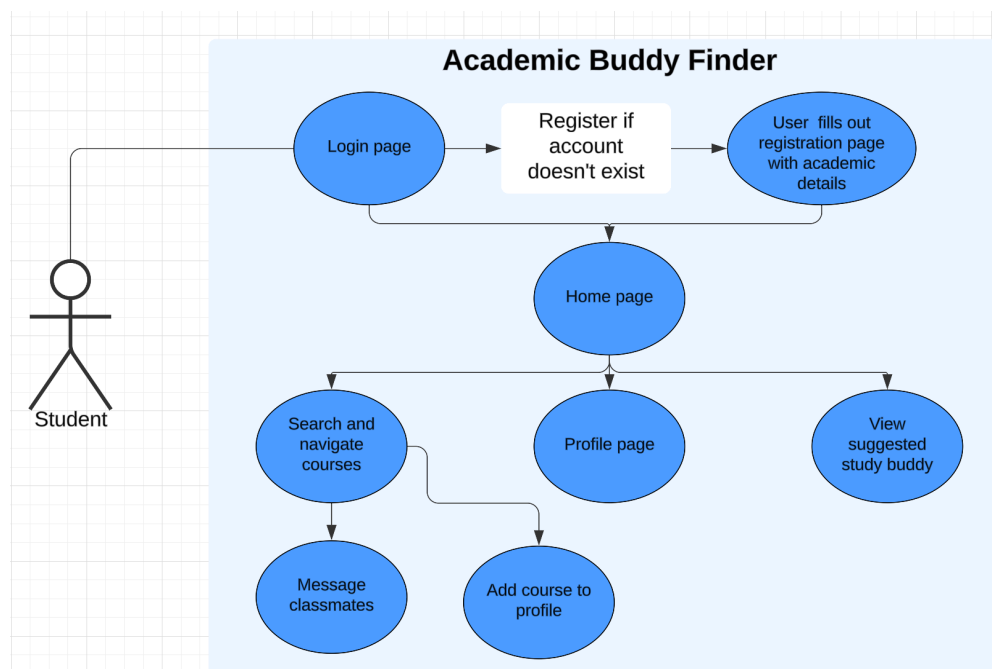
Nathan Mahary:

I implemented the login and register allowing the user to be in our database and made the logout page as well. I had also implemented the profile page and included a functionality that allows the user to edit their profile and also add what their name, major, year and bio are. I had

also put in the feature for suggested buddies that is supposed to show other students that are taking the same courses as you. It is supposed to do this using the database but since there was an issue, the feature now shows random students but the logged in user can look into their profile to see if they take similar classes and contact them using what is on their contact section. I primarily used handlebars, node.js, sql and bootstrap to implement these features..

Matusala Tewelde:

Matusala focused on using handlebars alongside PostgreSQL, Express, and Node.js to create dynamic course pages. These pages primarily utilized handlebars to display course-specific information based on the user's selection in the class search bar. This was then implemented by creating a route that fetched data from the database and rendered the appropriate content on the course pages.

Use Case Diagram

Wireframes

https://balsamiq.cloud/skrf6m5/pdx5uon

Test Results

Test #1
Register with new name

- What are the users doing?
    - Users are putting in a name and password for the account
- What is the user's reasoning for their actions?
    - The users reasoning is to be able to access the website Study Circle
- Is their behavior consistent with the use case?
    - Their actions are consistent with the use case because we need the user to register prior to doing anything on the website
- If there is a deviation from the expected actions, what is the reason for that?
    - No there isn't because before doing anything they need to register
- Did you use that to make changes to your application? If so, what changes did you make?
    - We did not because there were no deviations.

Test #2
Register with Invalid name (invalid input)

- What are the users doing?
    - Users are putting in a name and password for the account that is already registered
- What is the user's reasoning for their actions?
    - To see if it replaces the current account in the database
- Is their behavior consistent with the use case?
    - Their actions are consistent with the use case because we need the user to register with an already registered account to see if it redirected them to the register page
- If there is a deviation from the expected actions, what is the reason for that?
    - No there isn't because before doing anything they need to register
- Did you use that to make changes to your application? If so, what changes did you make?
    - We did not because there were no deviations.

Test #3
Login with registered name

- What are the users doing?
    - Users are logging in with registered account
- What is the user's reasoning for their actions?
    - The users reasoning is to be able to access the website Study Circle

- Is their behavior consistent with the use case?
  - Their actions are consistent with the use case because we need the user to login to access their profile and main page
- If there is a deviation from the expected actions, what is the reason for that?
  - No there isn't because before accessing the home page they need to login
- Did you use that to make changes to your application? If so, what changes did you make?
  - We did not because there were no deviations.

Test #4
Login with Invalid login (invalid input)

- What are the users doing?
  - Users are logging in with an unregistered account
- What is the user's reasoning for their actions?
  - The users reasoning is to be able to see if they can access the website without registering for an account
- Is their behavior consistent with the use case?
  - Their actions are consistent with the use case because we need the user to login without a registered account and start using study circle
- If there is a deviation from the expected actions, what is the reason for that?
  - No there isn't because before accessing the home page they need try the login before registering
- Did you use that to make changes to your application? If so, what changes did you make?
  - We did not because there were no deviations.

Deployment

https://studycircle-b5kf.onrender.com/