CSCI 3308 Group Project Report

DiningGram

By: Andy Wood, Luke Chabin, Rodolfo Martinez-Maldonado, Yusuf Morsy

Project Description

Our application is a social media platform that revolves around the dining halls on campus. Users can upload pictures of their food and dining hall experiences. On their posts, they can include a rating for the dining experience, a dining hall location, and a caption. Users can view other posts and like, save, and leave comments on them, and they can click on the dining hall location to filter posts by that specific dining hall. The user can also edit their profile, adding a profile picture and bio, and view other user's profiles, where they can see that user's posts and saved posts. Through our platform, students will be actively engaged in creating a community-driven resource to improve their overall dining experience by highlighting the most and least favorable aspects of each dining hall. With this tool, students will have the opportunity to share constructive feedback, make informed dining decisions, and contribute to a positive impact on campus

Project Tracker

https://github.com/users/yusufmorsy/projects/1
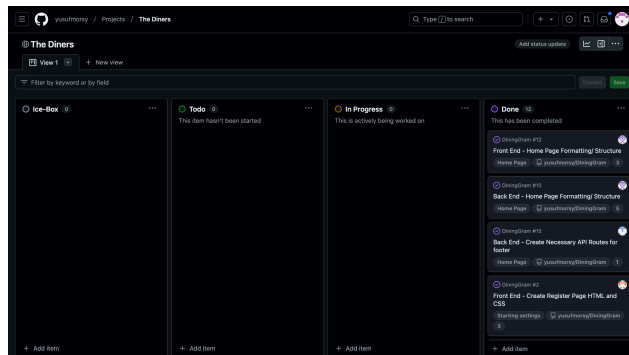
Video Demonstration

🎬 diningGram.mp4

Link to Git Repository

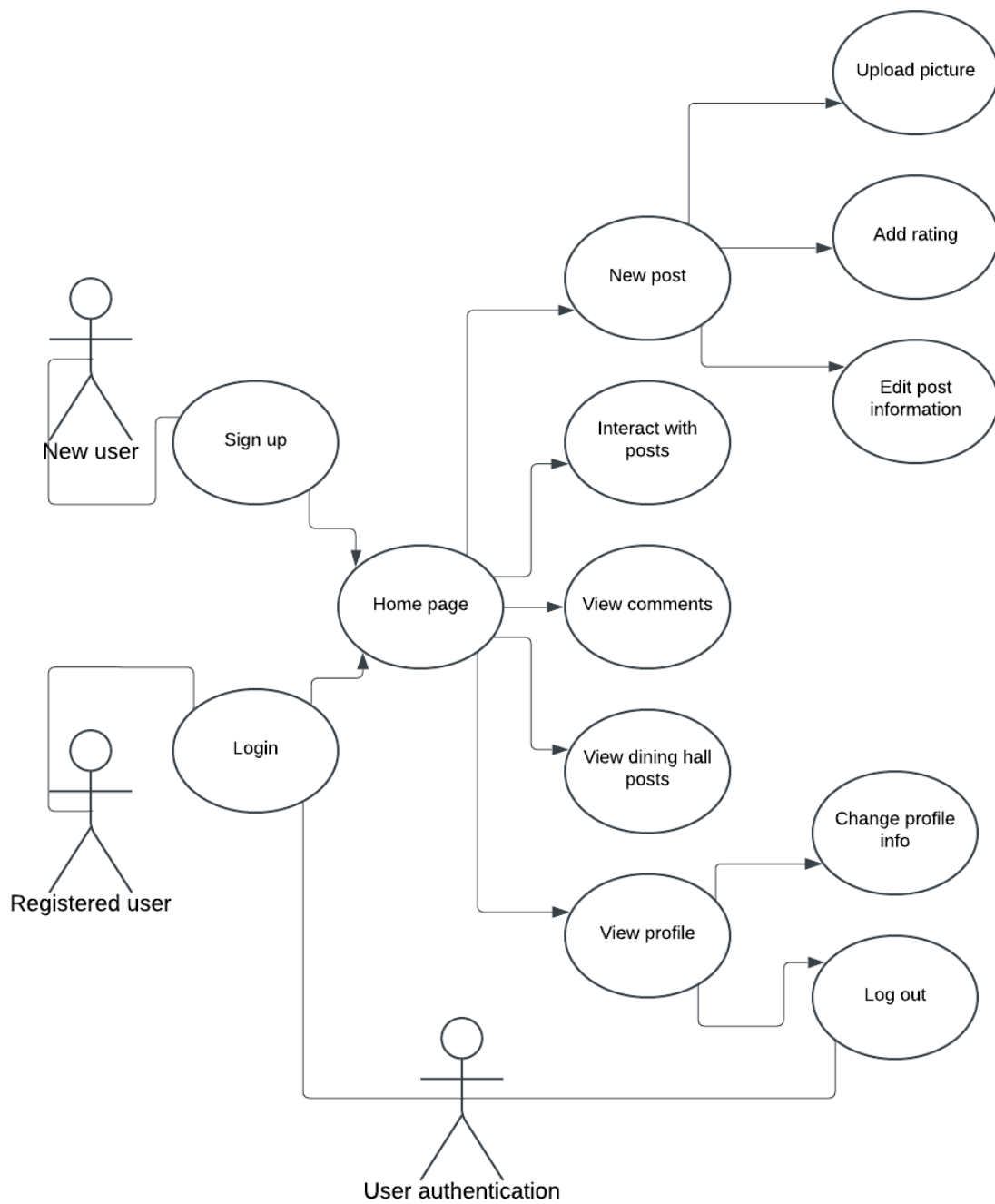https://github.com/yusufmorsy/DiningGram

Contributions
Yusuf: In this project, I worked on the entire home page. This included all the features: page structure, post structure, all the front end, and back end to display and retrieve information to them. It also included a sidebar with specific feed options. I also implemented the entire comment features, and save features. I also created the wireframe and helped fix bugs in my groupmate's work.

Luke: I worked on the front end of the project primarily. I made the initial HTML structure for the registration page, the structure and Javascript of the post cards to be integrated into the home page, the website footer, as well as working on the CSS formatting of the whole site. I also created the case diagram, architecture diagram, website logo, and made the presentation slideshow.

Andy: My contribution to the DiningGram project included designing and implementing both the front-end and back-end of key features. I developed the navigation bar, login, and registration pages(Luke made the initial HTML structure), ensuring they were both functional and visually appealing. For the profile page, I crafted its layout and functionality, including the ability to edit user profiles seamlessly.

Rodolfo: I designed the database SQL schema and developed the back-end API route for creating posts. I implemented and refactored file upload encoding into base64 strings (up to 10 MB), and updated the HTML/CSS structure (Luke created the original page) for the 'createpost' page. I created the unit tests for the following key features/routes: /register, /login, /createpost, and /profile/:userId/edit. I maintained the team meeting logs and updated the readme.md documentation. I also deployed the application's free instance through Render.

Use Case Diagram:

Wireframes:

Create a New Post

Upload Picture

| Choose File | No file chosen |

Bio

Write a caption...

Location

Enter location

Rating

Post

Dining Gram Login

Username

Enter username

Password

Password

Login

Search dining halls...

New Post

Popular Dining Halls

C4C Dining Hall
4.6/5 (1.2k ratings)

Sewall Dining Center
4.3/5 (890 ratings)

Village Center
4.2/5 (650 ratings)

john_doe
C4C Dining Hall

Rating: 4.5/5
☆☆☆☆☆

123 likes

john_doe   The pasta at C4C today was amazing! Fresh ingredients and perfect sauce. Must try! 🍝

View all 45 comments

sarah_smith   Looks delicious! 😊
mike_boulder   I need to try this!

Add a comment...   Post

foodie_buff
Sewall Dining Center

Rating: 3.8/5
☆☆☆☆☆

89 likes

foodie_buff   Today's special at Sewall: Taco Tuesday! 🌮 The guacamole was fresh and delicious!

View all 23 comments

taco_lover   Those look authentic!

Add a comment...   Post

Test Results

For the purposes of this project, we created unit cases for the following four features:

1) User registration (/register POST route)
    a) Description: User will create an account with a unique username and password
2) User logging in (/login POST route)
    a) Description: Provided the user made an account, the user will log in with the correct credentials
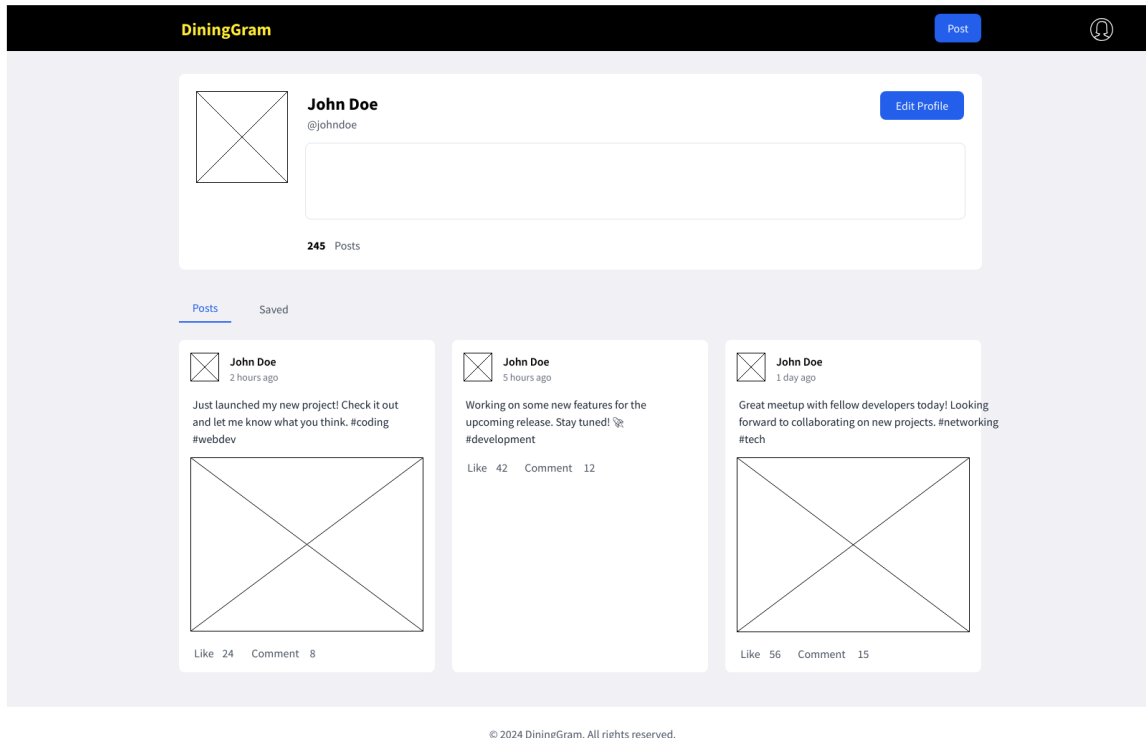3) Creating posts (/createpost POST route)
    a) Description: User will create a post given they provide file upload, post content, rating, and select which dining hall this post applies to
4) Editing profiles (/profile/:userId/edit POST routes)
    a) Description: User can edit their profile's photo, bio, and name (not username)

To test these features, we created a unit case for each and asked a fellow student to interact with our application. These are the findings we have made with the student as a user:

1) Unit Case #1
    a) The user first tried to make an account as normal, inputting both their chosen username and password. As a result, they were able to be successfully redirected to the home page.

    b) The user wanted to see if the application has security for when it allows users to make accounts without a password, reasoning that it will, ideally, let him create infinite accounts. Upon trying this, however, the user was unable to do so, receiving a message that informed them that the password (or lack thereof) is invalid.

    c) This behavior is consistent with the use case as the unit case predicts that users will try to create an account without a password for immediate access and infinite accounts.

2) Unit Case #2

    a) The user tried to access their recently-made account, but they forgot their password so he tried a random password. As such, the application informed them that the password was incorrect. After a few more attempts, they got access.

    b) This behavior is consistent as the unit case assumes that the password would be incorrect in the negative case.

3) Unit Case #3

    a) The user tried to make a new post by tampering with the hall id. This failed and the post was not created as predicted by the unit case.

4) Unit Case #4

    a) The user tried to edit their profile with the correct information (file, name, and bio) and was successful.

Application Deployment

https://dininggram.onrender.com/