A photograph of gym equipment on a green textured mat. In the center is a black hexagonal dumbbell. To its left is a pink resistance band with a white strap. Above the dumbbell is a grey sneaker with a white sole. Below the dumbbell is a blue foam roller. In the bottom left corner, there is a pink resistance band with a white strap.

Gym Membership and Class Booking System

Team OOPS

Prajwal, Mahesh Peta, Guru Saran Reddy
Busireddy, Hari Naga Venkata Sai Posani

Date:10/16/2024

Team Member Introductions



Prajwal: Frontend Design & Testing Lead- Designing user-friendly interface and performing frontend testing.



Mahesh Peta: AWS Deployment Specialist- Configuring AWS for hosting and ensuring security.



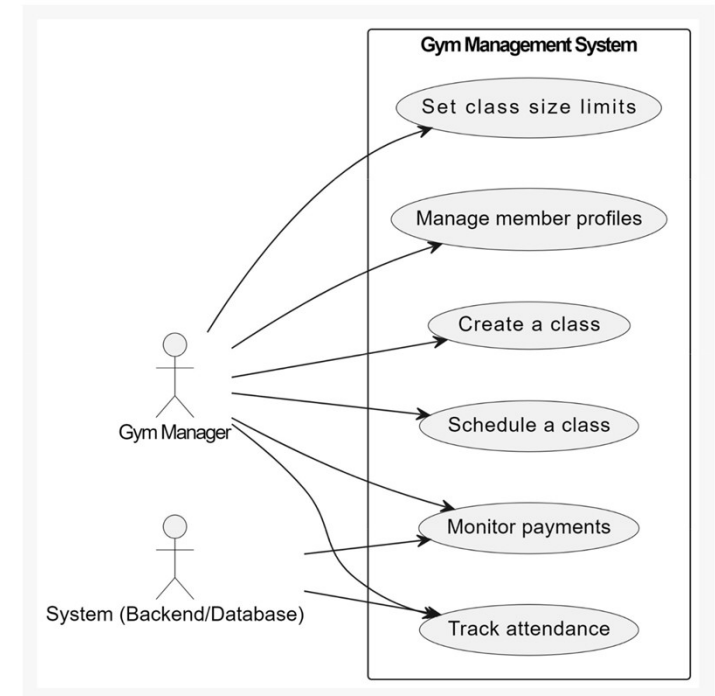
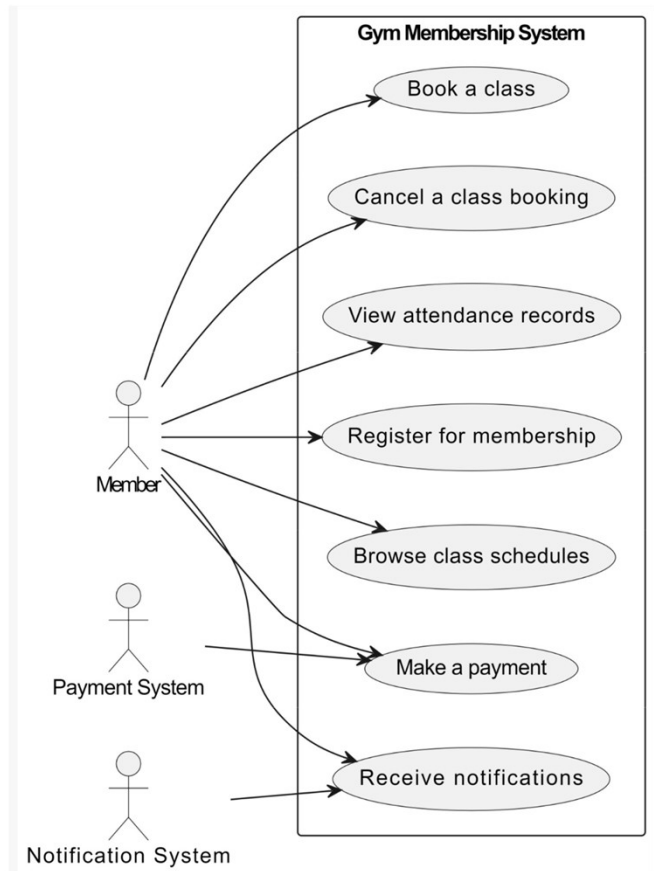
Guru Saran Reddy
Busireddy: Backend Developer- Developing and maintaining Node.js backend and PostgreSQL integration.



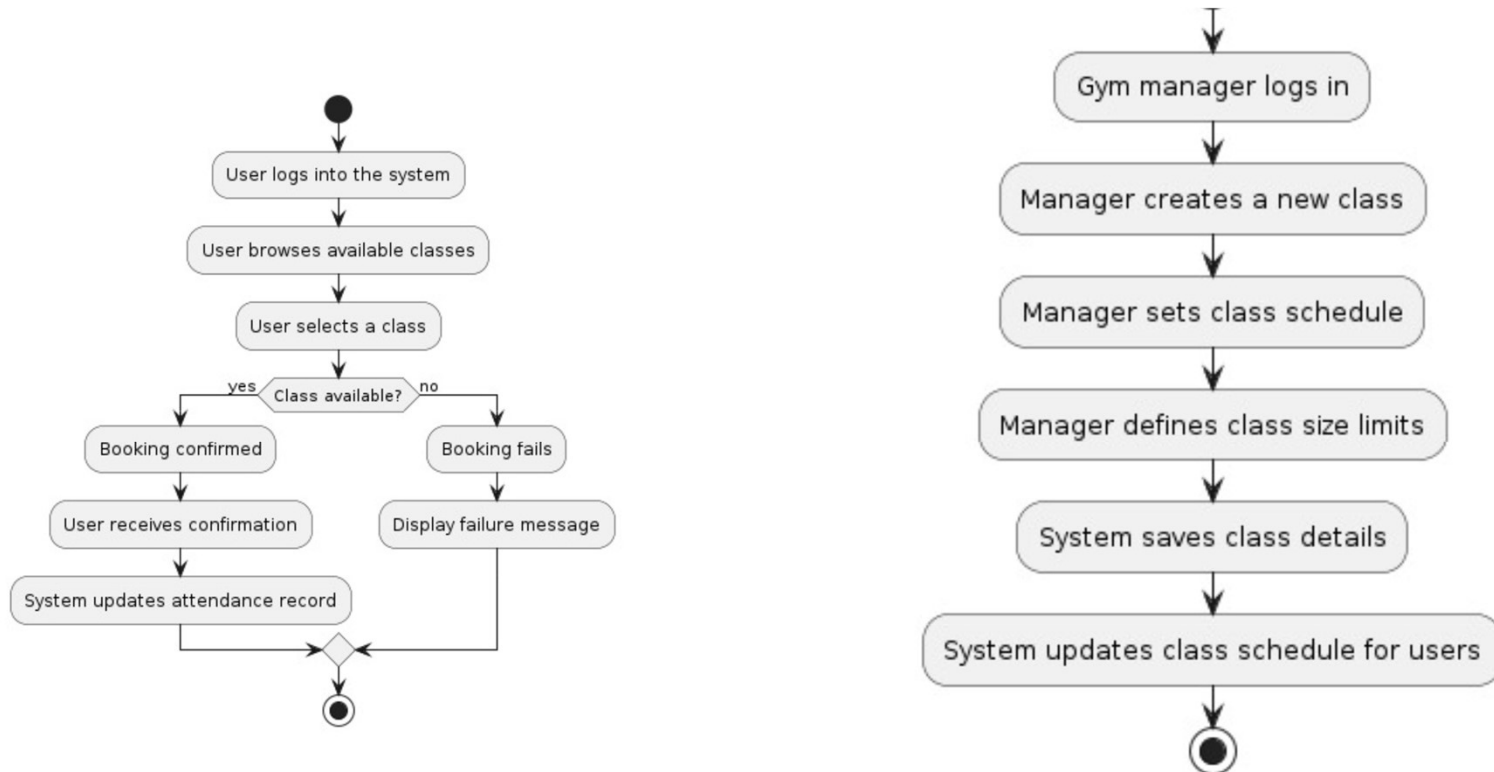
Hari Naga Venkata Sai
Posani: Payment & Notification Integration Specialist- Integrating Twilio for SMS notifications.

Project Overview

- Project Name: Gym Membership and Class Booking System
- Objective: To provide an easy-to-use platform for gym members to book classes, manage memberships, and process payments seamlessly.
- Key Features:
 - User Registration & Login
 - Class Scheduling
 - Automated Notifications using Twilio
- Technologies Used: HTML, CSS, JavaScript, Node.js, PostgreSQL, AWS, Twilio API

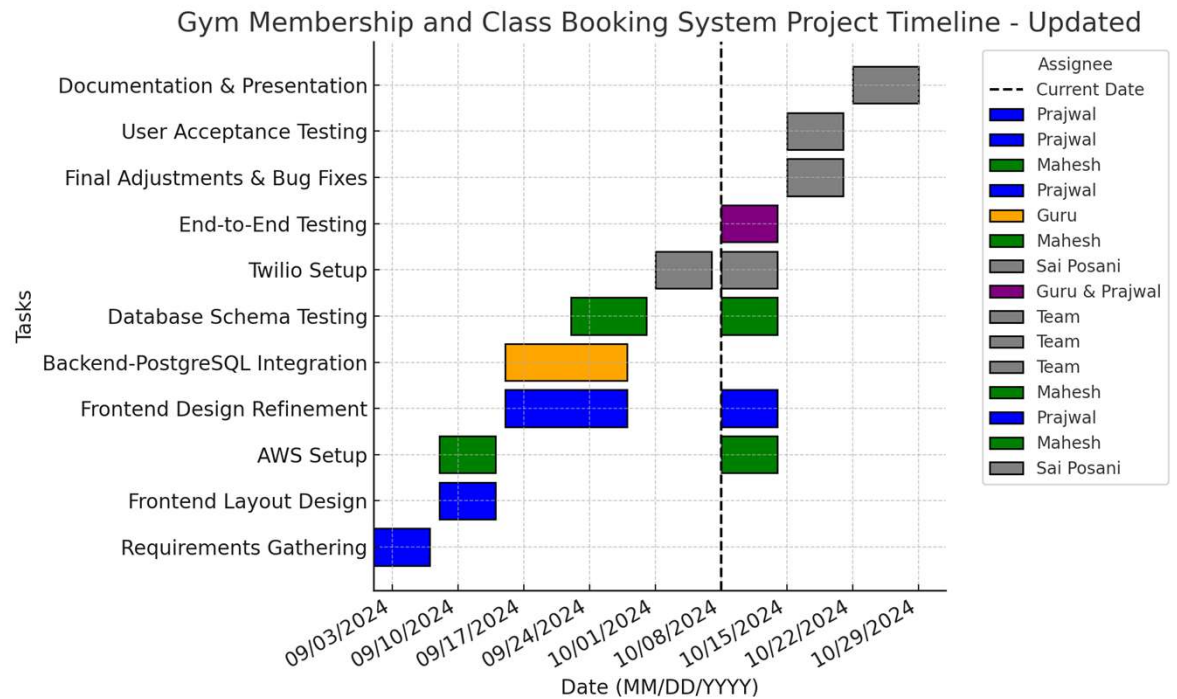


Use Case Diagram



Activity Diagram

Project Timeline (Gantt Chart)



Current Status



- User login and registration.



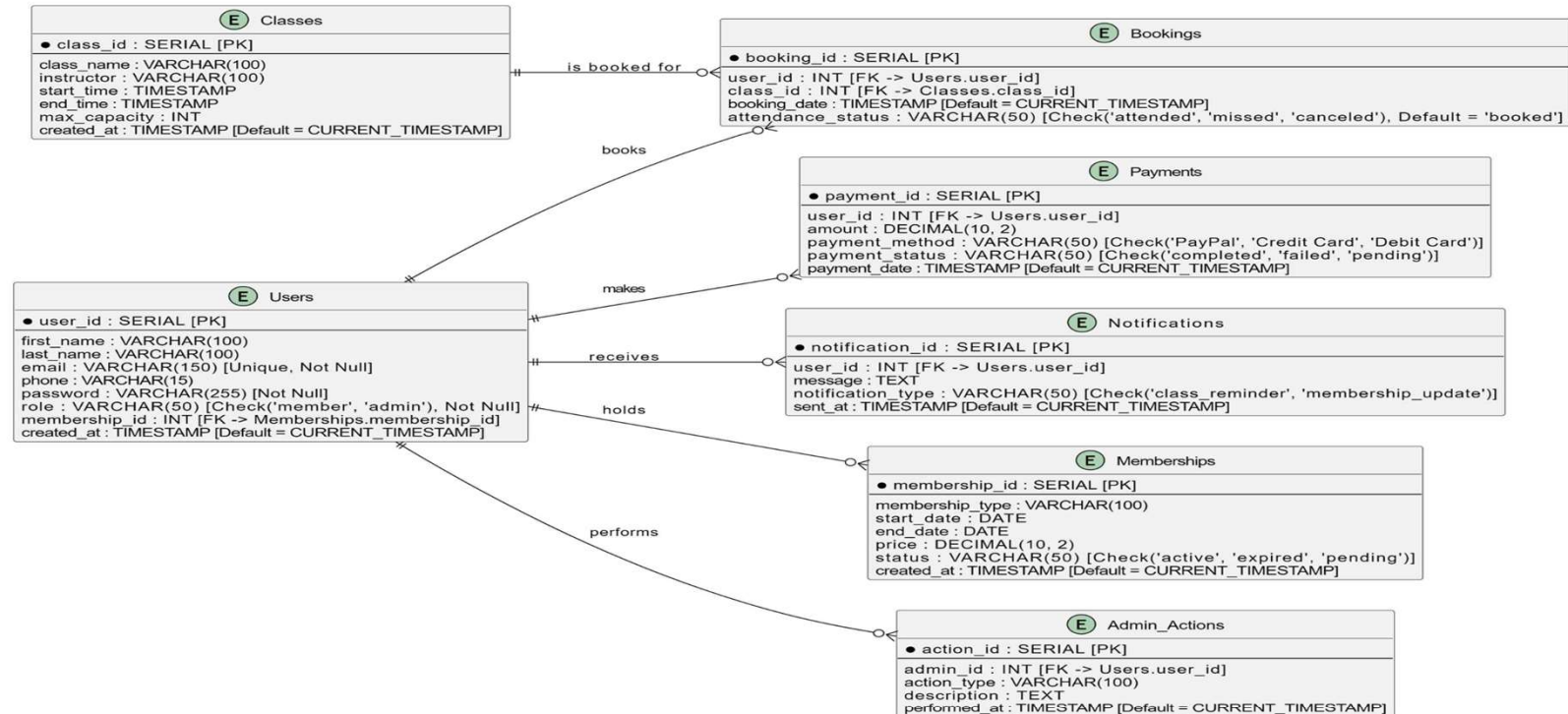
- Class calendar interface.



- Database setup with user and class tables.

Database ER diagram

ER Diagram:



Remaining Tasks & Responsibilities



- Frontend refinement: 1 week (Prajwal)



- AWS setup finalization: 1 week (Mahesh)



- Backend and database optimization: 1.5 weeks (Guru)



-Notification Setup and testing: 2 weeks (Sai Posani)



-Each team member is responsible for their respective areas.

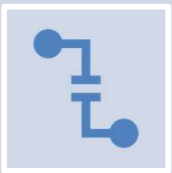
Challenges & Solutions



- PostgreSQL configuration on AWS Solution: Used AWS guides and forums.



- Responsive UI design Solution: Implemented media queries.

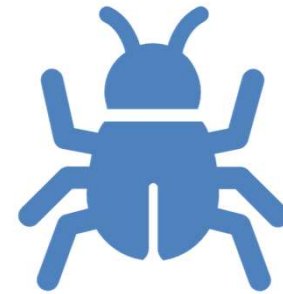


- Roadblocks: API timeouts and latency.

Conclusion & Next Steps



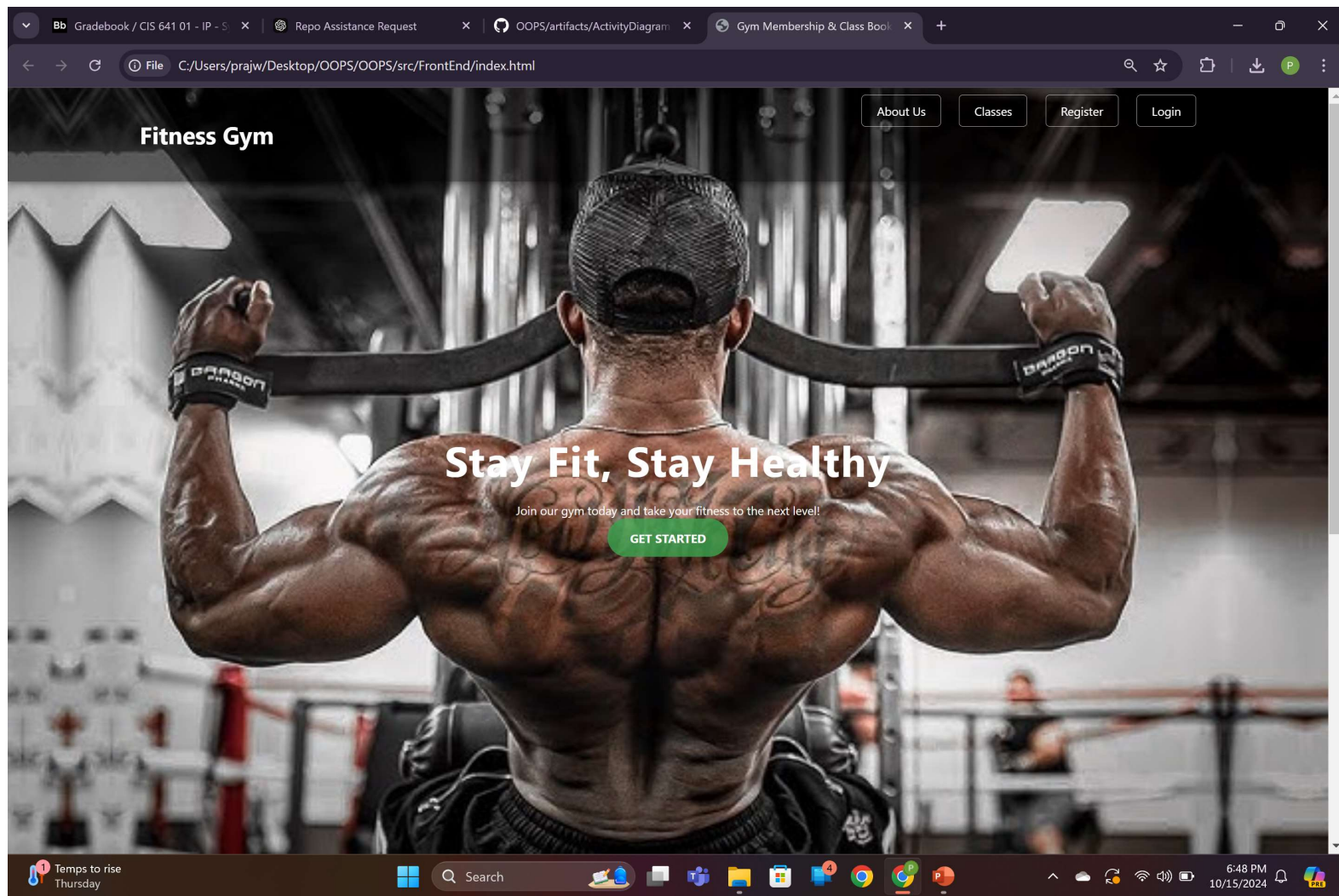
Summary: The project is progressing well, with key features implemented.



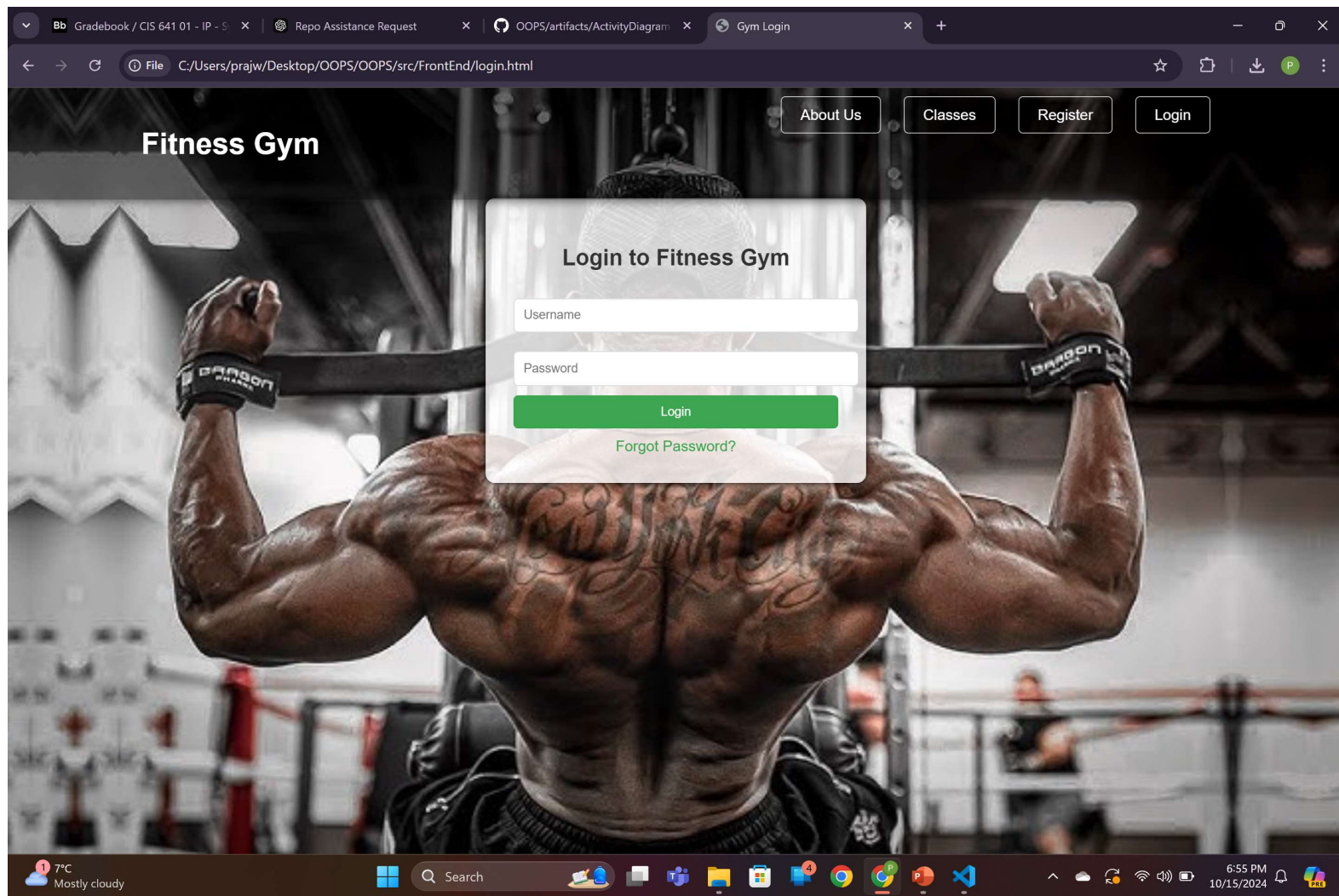
Next Steps:

- Final testing and bug fixes.
- Collect user feedback for improvements.
- Prepare for project submission.

Home Page



Login Page



Register NewUser

Fitness Gym About Us Classes Register Login

Create an Account

Full Name

Email Address

Username

Password

Confirm Password

Select a Plan

[Register](#)

[Already have an account? Login](#)

Membership Plans:

Gold Membership

Enjoy unlimited access to all classes, personalized training sessions, and priority booking.

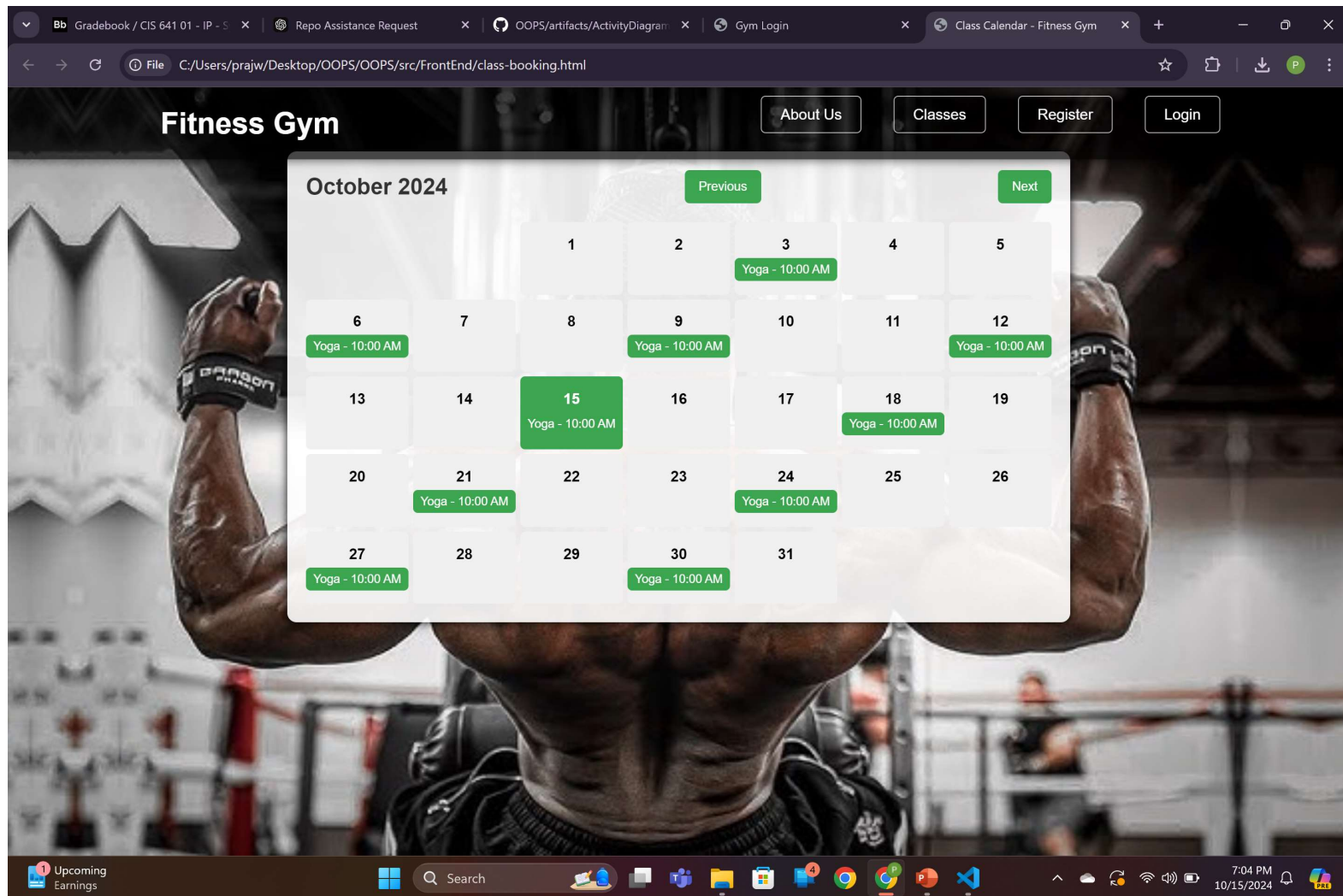
Silver Membership

Access to most classes with up to 5 personalized sessions per month and flexible booking options.

Bronze Membership

Basic access to gym facilities and standard classes, ideal for casual fitness enthusiasts.

Class calendar interface.



Questions & Feedback

- Feel free to ask any questions or provide feedback.

