**Individual Report – Steve Morrison**

I worked on several of the main features of the application, with a focus on the workout class tools for trainers and parts of the admin functionality. I was responsible for setting up the login and registration system, making sure users could access the correct menus based on their roles. I also handled the trainer-side functionality, including the ability to add, update, delete, and view workout classes. On the admin side, I added features for managing users and viewing overall membership and revenue stats. Near the end of the project I made some final adjustments to clean up the system and completed all the documentation as well. During the project I also helped with testing and worked closely with Chris to make sure everything stayed organized and functional.

**feature/steve-authentication**

I set up core of the project with the user login and registration system. I integrated password hashing with BCrypt, added basic input validation, and connected everything to the PostgreSQL backend.

**steve-workoutclass-menus**

In this branch I built out the trainer experience. I developed the menu system for trainers, added options for viewing, adding, and deleting workout classes, and created the backend logic to link to the database. I also made sure trainer actions were scoped to their own user ID so they could only manage their own classes.

**steve-admin**

I added features for the Admin user, including the ability to view all users, delete users by username, view all memberships, and check the total revenue generated by the system.

**steve-documentation**

I creating all the program documentation that explains how the application works, including a comprehensive UML diagram.

**minor-fixes**

This was a cleanup and review branch with a few smaller updates and corrections.

One of the first challenges I ran into was getting the authentication system working the way I wanted in the feature/steve-authentication branch. At first the login logic wasn’t correctly validating hashed passwords, which turned out to be a mismatch between the password hashing and the way the data was being stored and retrieved from the database. I had to debug with the BCrypt library. While I was working on the steve-workoutclass-menus branch, I had a number of logic issues around how isolating workout class data by trainer. At first, all classes were visible to all users/roles. I had to fix the queries and write filtering that tied class data to the currently logged-in ID. There were also some input bugs that caused problems when entering non number values into the menu.