**Problems and Solutions:**

**Page**: Login/Sign up

**Problem**: Users can sign up with empty text fields in both the username and password.

**Solution**: Added input validation in the signup process to ensure that they have filled both the username and password fields correctly and are not left empty. The method used was to check for null values or whitespace characters before the user is officially registered.

**Page**: Login/Signup

**Problem**: Users can sign up with existing usernames

**Solution**: Before allowing the user to be registered, check whether or not the username already exists in the MySQL database. If the username exists, give a prompt to the user to enter another username. Only register the user if the username is unique and not a duplicate.

**Page**: Progress Tracker

**Problem**: When goals are deleted, the position of previous goals do not move up on the page.

**Solution**: Created a for loop in order to adjust the positioning of each “goal” textbox.

**Page**: Progress Tracker

**Problem**: In certain instances the progress bar percentage would not show up

**Solution**: Ensured that the percentage of the progress tracker gets painted onto the page after the background colour.

**Page**: Graph Workout page

**Problem**: the graph will usually display many ups and downs in quick succession

**Solution**: only plot points if they are within 20% of the last point

**Page**: Workout Tracker

**Problem**: when scrolling the up and down buttons were reversed

**Solution**: swapped the buttons and their functionalities

**Page**: Calorie Tracker

**Problem**: There were some instances where inputted calorie data was not being saved to the database.

**Solution**: To address this issue I re-created the database from scratch to ensure that any pre-existing errors were eliminated. Next I implemented a different try-catch to catch any errors during data storage. And finally i made changes to the table the data was being stored