

1. Testing the 3 following features:
 - a. Username
 - b. Password Authentication
 - c. User workout preference inputWe'll use Mocha to test these
2. For our username, we will use a few different test cases in order to validate
 - Checking if the username already exists in the database
 - Checking if the username is null
 - Check if the username is over the character limitPassword Authentication will include
 - Checking if password matches the creation requirements
 - Checking if the password is null
 - Check if the password is hashed and not plaintextUser workout preference
 - Check what happens if the user tries searching for no selected options
 - Ensure correct queries for each group
3. Test data used to test the features will include:
 - username needs to be a string
 - password needs to be a string that includes uppercase letters and lowercase letters, the length cannot overpass 20 characters
 - workout preference will be a dropdown menu
4. The test environment will be the browser login page that runs mocha. Another one would be considered testing the homepage when the user chooses a workout.
5. -For the Username's test results
 - Result 1: The user input should equal the information in the database
 - Action: process the user name and checks for password authentication
 - Result 2: the user input is not found in the database
 - Action: redirect the user to the register page
 - Result 3: if the user input exceeded the character limit
 - Action: prompt the user to re-Enter the username within the character limit- For the Password's test results
 - Result 1: the password should equal the hashed password in the database
 - Action: process the user to the home page
 - Result 2: the password isn't found in the database
 - Action: prompt the user with an error message, and reload the page- For the workout preference test results
 - Result 1: user input isn't found in the database
 - Action: prompt the user with an error message, and reload the page
 - Result 2: Wrong output showing up
 - Action: This should not happen
 - The user password input should be equal to the password.
 - The user input should preferences and get the result database
6. The user acceptance testers would include our group members because we have the ability to make changes to the code if a test fails.

