Software Testing Documentation for

Gym-Matched Website

Version 1.1

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1. Low-Level Test Plan and Execution

1.1 Gym-Matched Website Component's

Signup Page

This page allows new users to create an account by inputting a username, email, and password. Password1 must match password2 to create the account. Input will be sent to suauth.php to be authenticated and sent to the database.

Sign-in Page

This page allows valid users to sign in to the system by inputting their username and password. The auth.php will authenticate the input with the database and if the user is a valid user with a valid password.

Home Page

Upon successfully signing in, the home page will be loaded and there will be basic HTML instruction on how to operate the website.

Profile Page

Profile pages allow users to see their basic information. No sensitive information such as email, phone number, and password is displayed.

• Edit Profile Page

Edit profile page allows users to update their information and their gym information. Upon clicking the save button, it will prompt the epauth.php to check with the database and to save it. Upon successful save, it will redirect users to the profile page.

Search Page

Here users have the option of a drop-down menu where they can filter their search for another user. It would redirect users to the search page result and allow the user to send a "Match" request to the other person.

Notification Page

This page should display users with all "Match" requests and the option to Accept or Reject them. The other part of the page should show the user the list of all previously "Matched" users and their phone numbers.

Calories and BMI Calculator Page

This page allows users to input their weight and workout activity level to calculate calories per day. And by inputting weight and height it will also calculate the BMI.

• Gym Locator Page

This page is a plain HTML page with JavaScript that allows the user to sort the table display of all the available gyms in Minot.

1.2 Primary Author

Author	Component
Long Nguyen	Search Page, Notification Page, and Calories & BMI Calculator.
Luiz DuPont	Signup, Sign-in, Home page, Profile Page, Edit Profile, and Gym Locator

1.3 Primary Tester

Tester	Page Component	Date
Luiz DuPont	Signup, Sign-in, Home page, Profile Page, Edit Profile, and Gym Locator	April 26, 2021
Long Nguyen	Search Page, Notification Page, and Calories & BMI Calculator.	
Other Party Tester - Travis Smith	Signup, Sign-in, Home page, Profile Page, and Edit Profile	April 23, 2021

1.4 Test Plan

1.4.1 Algorithmic Faults Algorithmic Faults

- Databases are not being updated.
- The database cannot be accessed.
- Error in pulling data from the database.
- Syntax error in program or SQL command

1.4.2 Computation and Precision Faults Computation and precision faults

• Error in calculating BMI and calories.

1.4.3 Documentation Faults

- The notification page was not made the way it was intended.
- The search page was not made the way it was intended.

1.4.4 Capacity or Boundary Faults Capacity or boundary faults

In the testing process, we do not have the tool and time to execute this part of the testing, and Gym-Match v1 is currently running on localhost, it would not be able to be tested for capacity or boundary.

1.4.5 Timing or Coordination Faults Timing or coordination faults

• The authentication process in sign up, sign in, and edit profile is being bypassed and not generating errors.

1.5 Test Plan Execution

Component	Testing List	Type of Possible Fault
Sign Up Page	The username should be unique and not been taken by another user - if it does, it should reload the sign-up page while retaining the user input and with an instruction tell the user that username is taken.	Algorithmic fault: • The database is not updating the user input. Syntax fault: • Wrong SQL syntax Timing/Coordination fault: • Username is taken
Sign in Page	User must type the correct password and username; any wrong combination should result in reloading the sign-in page and notification that it is an invalid credential.	Algorithmic fault: • The database is not pulling and validating the right user. Syntax fault: • Wrong SQL syntax Timing/Coordination fault: • Password and username combination is not correct
Home Page	Only a valid user after sign-in could access this page	Algorithmic fault: • Allow an invalid or nonsign-in user to access the page. Timing/Coordination fault: • Only valid user can access the page
Profile Page	Only a valid user after sign-in could	Algorithmic fault:

	access this page. Should load the correct and updated information of the current login user.	 The database is not pulling the correct data. Syntax fault: Wrong SQL syntax Timing/Coordination fault: Only valid user can access the page
Edit Profile Page	Only a valid user after sign-in could access this page. Allow users to update their information and send it to the database. Users must enter their password, with password1 & password2 match with their credentials, or an error message should appear, and all the user input should be retained.	Algorithmic fault: • The database is not being updated. Syntax fault: • Wrong SQL syntax Timing/Coordination fault: • Authentication to database failed - failed to update the database. Timing/Coordination fault: • Only valid user can access the page
Search Page	The search page did not include Age and only included gender, workout level, and workout time.	Documentation Fault Timing/Coordination fault: Only valid user can access the page
Notification Page		Documentation Fault Timing/Coordination fault: • Only valid user can access the page
Calories and BMI Calculator Page		Computation Fault: • Do not give the correct calculation. Timing/Coordination fault: • Only valid user can access the page
Gym Locator Page	Only a valid user after sign-in could access this page	Timing/Coordination fault: Only valid user can access the page

1.5.1 Algorithmic Faults

Some syntax error was also found when writing the connection to the database on the sign-up page. After fixing those errors, it fixes the sign-up page error. Most of the algorithmic error was caused by a simple syntax error that was easily fixed.

1.5.2 Computation and Precision Faults

N/A found in the program.

1.5.3 Documentation Faults

• The notification page was intended to have.

1.5.4 Capacity or Boundary Faults

In the testing process, we do not have the tool and time to execute this part of the testing, and Gym-Match v1 is currently running on localhost, it would not be able to be tested for capacity or boundary.

1.5.5 Timing or Coordination Faults Timing or coordination faults

At the beginning of the creation of Gym-Matched that required a new user, a fault was found when the database did not update user input from the sign-up page. This leads to the system being unable to create a new user. The second fault was found on the sign-in authentication page where it did not recognize the user and no error notification was shown. This was fixed and should now show an error message. The third fault was found on the edit profile page where the database was not updating the new input from the user. This was caused by an error in SQL database insertion and was fixed with some modification.

2. Integration Testing Plan and Execution

To ensure the success of our system and that our system is free of error. Multiple tests have been conducted. We also have every team member of this team test the other team member's work to ensure the correct requirement has been fulfilled. In addition, with the help of third-party testing the system, we have ensured that we deliver the system to be working properly. Here is the list of functionalities that was required for the system.

Page	Functionality	Status
Sign up	Allow a new user to create a new valid user with a unique username. If there is an error such that the username is taken, it should show an error message.	Fulfilled
Sign up authentication	Validate the database and input the data into the database. Redirect the user to the sign-in page if valid or back to the sign-up page if something is wrong.	Fulfilled

Sign in	Allow valid users to log in with valid credentials. The username and Password must match the database. If an error occurs, it should send an error message.	Fulfilled
Sign authentication	Validate with the database if the password and username are matched. Redirect the user to the home page if valid or back to the sign-in page if it is invalid.	Fulfilled
Home	Allow valid users to access this page were a basic HTML short instruction on how to use this page. This page consists of topnav menu to navigate through the page.	Fulfilled
Profile	Grab the login user data from the database and display the correct data to the interface. This page consists of topnav menu to navigate through the page.	Fulfilled
Edit Profile	Allow users to input data and send it to the epauth.php to be authenticated with the database. Should be able to retain the input if there is an error while the data is being sent to the database. This page consists of topnav menu to navigate through the page.	Fulfilled
Edit Profile authentication	Get user input from editprofile.php and insert it into the login user database. Redirect the user to the profile page if the data is successfully saved or back to the edit profile page if something went wrong. This page consists of topnav menu to navigate through the page.	Fulfilled
Search	This page consists of topnav menu to navigate through the page.	
Notification	Grab the login user match data from the database and display the correct data to the interface. This page consists of topnav menu to navigate through the page.	

Calories and BMI Calculator	This page consists of topnav menu to navigate through the page.	
Gym Locator	List all the available gyms in Minot in basic HTML with a sort function build with JavaScript. This page consists of a topnav menu to navigate through the page.	Fulfilled
Sign out	Allow users to log out from the system and redirect them to the login page.	Fulfilled

Appendix A - Group Log and Contribution

Both of our members live in town and our group meeting occurs during nighttime for an average of three hours each time from 4/28/2021 to 5/6/2021 and email or electronic message exchanges. All ideas were created through a collaborative, section-segment edition and revision process using Google Drive. Long Nguyen is responsible for the creation, testing, and documentation of the Search Page, Notification Page, and Calories & BMI Calculator. Luiz DuPont is responsible for the creation, testing, and documentation of Signup, Sign-in, Home page, Profile Page, Edit Profile, and Gym Locator.