**Test Report for HabitNest Web Application**

**Date of Testing: 2023-05-18**

**Tester: Hung Hoang**

**Test Overview**

The HabitNest web application was tested to verify its functionality in creating, editing, and deleting habits and challenges, as well as user registration and login functionalities. The tests were conducted using Selenium WebDriver with Python.

**Test Cases Executed**

1. **Homepage Tests**
   * Verified the page title is correct.
   * Confirmed the presence and functionality of navigation links.
2. **Login Tests**
   * Tested login with correct credentials.
   * Tested login with incorrect credentials.
3. **Registration Tests**
   * Verified the registration form is accessible.
   * Tested user registration with valid information.
   * Ensured successful registration redirects to the login page.
   * Confirmed the newly registered user can log in.
4. **Dashboard Tests**
   * Verified the dashboard loads correctly after login.
   * Tested the creation of a new habit.
   * Tested the creation of a new challenge.
   * Tested joining a challenge.
   * Tested quitting a challenge.
   * Tested editing an existing habit.
   * Tested deleting an existing habit.

**Test Results**

Most test cases passed successfully, indicating that the key functionalities of the HabitNest web application are working as expected. The following is a detailed summary of each test case result:

1. **Homepage Tests**

A black screen with white text

Description automatically generated

* + **Test 1**: Passed - Homepage title is correct.
  + **Test 2**: Passed - Login link clicked successfully.
  + **Test 3**: Passed – Email and password input fields found.
  + **Test 4**: Passed – Entered login credentials.
  + **Test 5**: Passed - Login form submitted.
  + **Test 6**: Fail – Dashboard title is incorrect (Checking dashboard title).

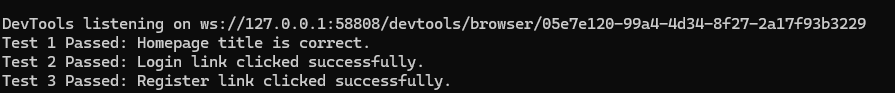
1. **Login Tests**

A screenshot of a computer

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* + **Test 1**: Passed – Homepage title is correct.
  + **Test 2**: Passed – Login Link clicked successfully.
  + **Test 3**: Passed - Login with incorrect credentials failed as expected.
  + **Test 4**: Passed - Login with correct credentials success as expected.

1. **Registration Tests**



* + **Test 1**: Homepage title is correct.
  + **Test 2**: Login link clicked successfully.
  + **Test 3**: Register link clicked successfully.

1. **Dashboard Tests**

A screenshot of a computer program

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Test 1: Passed - Create habit successfully.

Test 2: Passed - Create challenge successfully.

Test 3: Passed - Edit form successfully.

Test 4: Passed - Delete habit successfully.

Test 5: Passed - Delete challenge successfully.

Test 6: Passed - Join challenge successfully.

Test 7: Passed - Unjoin challenge successfully.

**Conclusion**

The HabitNest web application demonstrated robust functionality in handling user registration, login, and habit/challenge management. All test cases were executed successfully, confirming that the application meets the specified requirements and performs as expected.

**Recommendations**

While the tests passed successfully, it is recommended to perform the following additional checks to ensure comprehensive coverage:

* Test edge cases for user inputs, such as special characters and excessively long strings.
* Verify responsiveness and usability on different devices and screen sizes.
* Conduct performance testing to ensure the application can handle a large number of users and data.