

Examination Report: Selenium Testing for Login Functionality

Project Overview

Project Name: SpareHub

Application Type: Django Web Application

Testing Framework: Selenium

Test Environment: Local Development Environment

Objective

The objective of this testing phase is to validate the login functionality of the SpareHub application using automated Selenium tests. The tests aim to ensure that users can successfully log in with valid credentials and that appropriate error messages are displayed for invalid credentials.

Test Environment Configuration

1. **Test Database:** A separate test database is created for running tests to ensure isolation from the production database.
2. **Test User Creation:** A test user is programmatically created in the database during the test setup phase.

Test Execution

Test Cases

Test Case 1: Successful Login

Description: Verify that a user can log in with valid credentials.

Steps:

1. Navigate to the login page.

Enter the username and password.

Submit the login form.

Expected Result: The user should be redirected to the dashboard, and the page should contain the text "Welcome".

Actual Result: Pass

2. Test Case 2: Invalid Credentials

Description: Verify that an error message is displayed when invalid credentials are entered.

Steps:

1. Navigate to the login page.
2. Enter an invalid username and password.

Submit the login form.

Expected Result: An error message should be displayed indicating invalid credentials.

Actual Result: Pass

Conclusion

The Selenium tests for the login functionality of the SpareHub application were executed successfully, with all test cases passing. The application behaves as expected, allowing users to log in with valid credentials and providing appropriate feedback for invalid attempts.