Librarians Test Plan

This test plan outlines the process of using the Selenium IDE browser extension to create and execute tests for the Librarians Flask app. Selenium IDE is a user-friendly tool that allows you to record, edit, and run tests without writing code, making it suitable for testing web applications.

Steps to Perform Testing with Selenium IDE:

1. Install the Selenium IDE extension for your preferred browser. It is available for both Google Chrome and Mozilla Firefox.
2. Open the Selenium IDE extension in your browser to begin creating a new project.
3. Provide a descriptive name for the project, which will include all the test cases related to the Librarians Flask app.
4. Initiate the recording of a test case by clicking on the "Start Recording" button located in the top-right corner of the Selenium IDE window.
5. Conduct the test scenario in your browser by following the test steps from the improved test plan. The Selenium IDE will automatically capture the actions as test steps.
6. Upon completing the test scenario, cease the recording by clicking on the "Stop Recording" button within the Selenium IDE window. Assign an appropriate name to the test case when prompted.
7. To create additional test cases, repeat steps 4 to 6 for each scenario listed in the test plan.
8. Review the recorded test steps in the Selenium IDE, making any necessary adjustments or adding assertions to verify the properties of specific elements.
9. Execute the tests by clicking on the "Run All Tests" button, which resembles a play button accompanied by multiple lines. Monitor the test outcomes in the "Log" and "Test Results" sections.
10. Save the project in Selenium IDE to store the test cases and their corresponding steps for future reference.
11. Distribute the Selenium IDE project file to team members or incorporate it into the project documentation as part of the test plan. Team members can import the project file into their Selenium IDE to run or modify the tests as required.

1. Registration Test:

- Test that a new user can successfully register with valid inputs
- Test that an error message is displayed if the user tries to register with an existing username or email address

- Test that an error message is displayed if the user tries to register with invalid inputs

2. Login Test:

- Test that a registered user can successfully log in with valid credentials
- Test that an error message is displayed if the user tries to log in with incorrect username or password
- Test that a logged-in user can access the protected pages (e.g., book creation page)
- Test that an unauthenticated user is redirected to the login page when trying to access protected pages

3. Book Creation Test:

- Test that a logged-in user can create a new book with valid inputs
- Test that an error message is displayed if the user tries to create a book without being logged in
- Test that an error message is displayed if the user tries to create a book with invalid inputs
- Test that the created book is associated with the correct user

4. Logout Test:

- Test that a logged-in user can successfully log out
- Test that a logged-out user cannot access the protected pages (e.g., book creation page)

5. Preview Test:

- Test that a user can successfully preview the generated book
- Test that the preview page displays the book content correctly
- Test that users can make changes to the generated book on the preview page

6. Download Test:

- Test that a user can successfully download the generated book as a PDF
- Test that the downloaded PDF contains the correct book content
- Test that the downloaded PDF is readable and not corrupted

7.   Share Test:

- Test that a user can successfully share the generated book on social media
- Test that the shared book content is correct and matches the generated book
- Test that the shared link directs to the correct book page when clicked

8.   Browse Test:

- Test that a user can browse a list of 10 most recent created books
- Test that a user can read the correct book when clicking Read Now