

Test Plan – Heroku Challenging DOM Web Page

Tester: Adam McClintock

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Intro

Test plan documenting tests to be carried out on the Heroku Challenging DOM web page, with a view to add these tests to an automated regression pack.

Assumptions

Testing under the assumptions that the Heroku Challenging DOM Web Page is currently operating as expected despite intentional major flaws on the web page i.e. Edit & Delete links not operating as a user might expect them to and coloured buttons doing very little in terms of functionality.

Test Strategy

Carry out several checks to ensure the Heroku Challenging DOM web page is operating as expected in light of assumptions made. Will focus on determining if all elements are present and if elements such as buttons, links, and the table are able to be interacted with.

Will also carry out an accessibility scan of the web page.

Environment

Focusing on executing tests using the Chrome Browser and will also be utilising Selenium, .NET, Specflow, and AXE.

Test Schedule

Tests are to be performed ASAP (within the current sprint) – and then be added to the automated regression pack to be run on a nightly basis and prior to the release of new functionality.

Test Cases

15 Tests in total covering the below scenarios:

1. Navigate to Challenging DOM Page
2. Confirming the blue button is clickable
3. Confirming the red button is clickable
4. Confirming the green button is clickable
5. Validating the canvas is displayed
6. Validating the table is displayed
7. Validating the table headers are correct
8. Validating table row one values are correct
9. Validating the table row count is correct
10. Confirming all Edit buttons are clickable and redirect the user (Update URL)
11. Confirming all Delete buttons are clickable and redirect the user (Update URL)
12. Perform an accessibility scan of the web page (NOTE: this test will always fail but this is expected)
13. Confirm canvas value is updated upon clicking blue button (manual test only)
14. Confirm canvas value is updated upon clicking red button (manual test only)
15. Confirm canvas value is updated upon clicking green button (manual test only)

Tools

- Selenium
- Visual Studio IDE / .NET
- Specflow
- AXE Accessibility selenium extension
- N-Unit
- Chrome (Browser & ChromeDriver)
- Azure DevOps

Exit Criteria

Functional UI tests to provide a 100% pass rate. Accessibility test results to be reviewed with project stakeholders and approval is granted if accessibility risk is within accepted guidelines.

Dependencies

Heroku Challenging DOM app being in a functional state upon test execution.

Access to relevant testing tools noted above.

Risks

Dependencies not being met.

Dev being carried out on the Heroku Challenging DOM app that may affect the results of the feature under test.