



CS 1632 Software Quality Assurance

Deliverable 3

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1. Summary

The biggest issue we had with Selenium was the tests not running in Firefox. Often, it would get stuck saying "Preparing to run test", and never open the website to begin testing. This was fixed by running a test, cancelling execution but not closing the window that opened, then running the test again. Now it would proceed with the test. I imagine this would cause a lot of time wasted in the workplace. We thought it was really cool getting to watch the tests run in real time. It is satisfying to watch them run and pass.

2. Defects

IDENTIFIER: DEFECT1-FUN-FIB

Summary: The Fibonacci number for 10 is not calculated

Description: The requirements say that the Fibonacci calculator should work for values 1-10. However, 10 does not get calculated if inputted.

Preconditions: Firefox 86.0.1, Windows 10 20H2, Cloudflare DNS 1.1.1.1

Reproduction Steps:

1. Type <https://cs1632.appspot.com/fib> into the URL and press [enter]
2. Type 10 into the box directly to the left of the submit button
3. Click the Submit button

Expected Behavior: The page displays "Fibonacci of 10 is 55!"

Observed Behavior: The page displays "Fibonacci of 10 is 1!"

IDENTIFIER: DEFECT2-FUN-FACT

Summary: The website gives a 404 on large integer values

Description: Entering values that overflow the integer size causes the webpage to crash.

Preconditions: Firefox 86.0.1, Windows 10 20H2, Cloudflare DNS 1.1.1.1

Reproduction Steps:

1. Type <https://cs1632.appspot.com/fact> into the URL and press [enter]
2. Type 100000000000 into the box directly to the left of the submit button
3. Click the Submit button

Expected Behavior: The page displays "Factorial of 100000000000 is 1!"

Observed Behavior: The page displays the 404 error page, which is not implemented.

IDENTIFIER: DEFECT3-FUN-HELLO

Summary: The website does not show the proper "from message" with special characters

Description: Entering any string, x, into the url should show as "from x" but it does not work with special characters

Preconditions: Firefox 86.0.1, Windows 10 20H2, Cloudflare DNS 1.1.1.1

Reproduction Steps:

1. Type <https://cs1632.appspot.com/hello/###&&&;> into the URL and press [enter]

Expected Behavior: The page displays “Hello CS1632, From ###&&&;!”

Observed Behavior: The page displays “Hello CS1632, From Dr. Ahn!”