CS 1632 – Deliverable 4: Performance Testing

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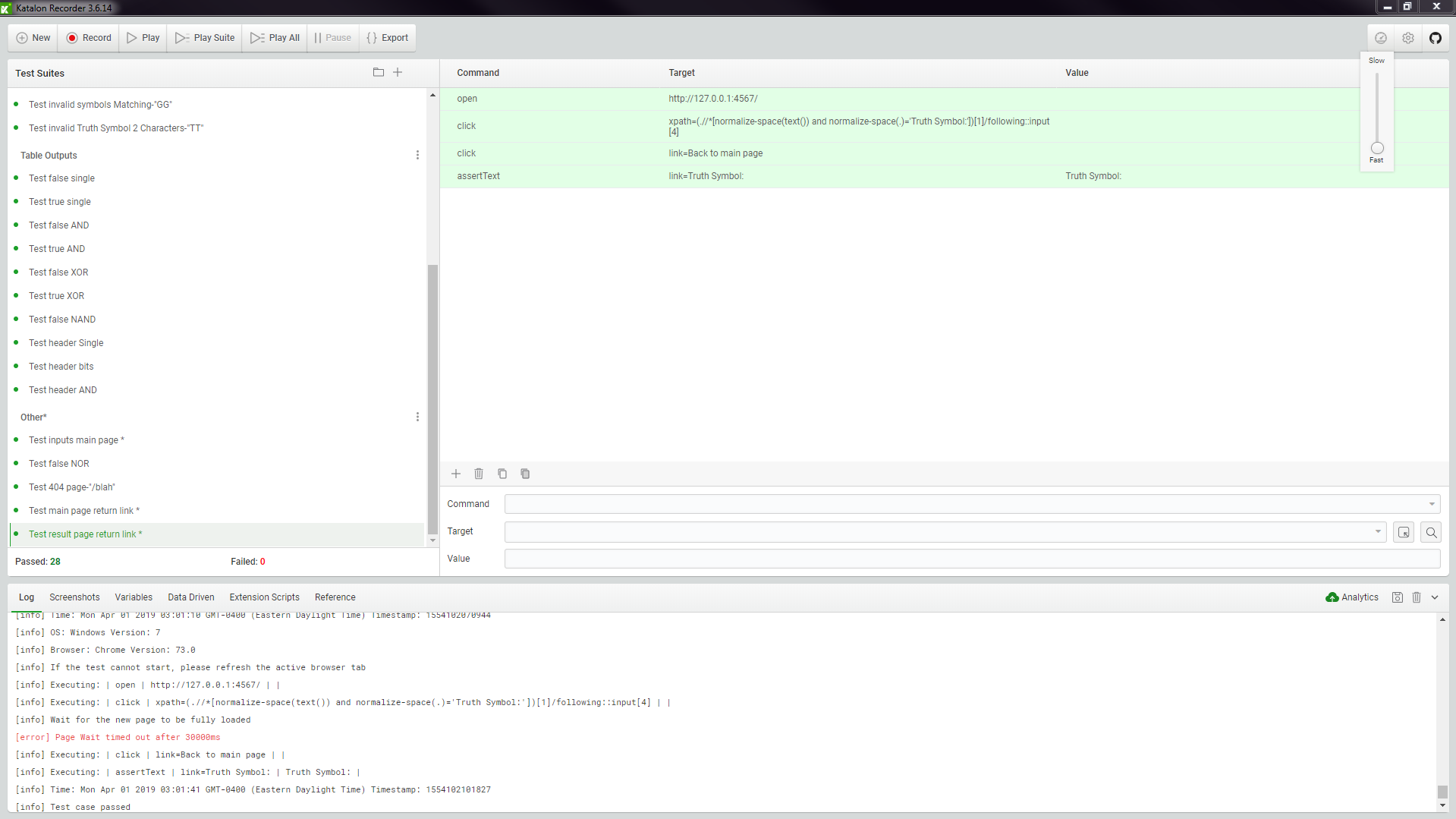
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https://github.com/willgs/D3.git

**Issues Faced**

While writing this code I one of the first problems me and my partner had was understanding the how to implement the functionality of the deliverable. Even though this project was a very simplified version of blockchain verification, it was still a new and somewhat complicated process for us to implement. It took several re-reads of the billcoin.md file and about a half an hour of discussion between me and my partner to fully understand what we were implementing and then about another hour to determine the structure of our program and begin dividing the work.

The way in which structured our code impacted the failure cases we considered. Because we were using white box testing, we knew that all of the arguments passed to the methods that verify the data in between pipes would all be strings. We did not need to check for bad data types, only bad data. All of the



**Traceability Matrix**:

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| --- | --- |
| REQ1 | Test Inputs Main Page |
| REQ2 | Test Main Page return link | Test Result Page return link |
| REQ3 | Test Invalid Truth Symbol 2 Characters-“TT” | Test Invalid Size - “A” | Test invalid symbols Matching –“GG” | Test invalid size –“-1” |
| REQ4 | Test Valid Truth Symbol-“T” | Test Valid Truth Symbol-“1” | Test Valid False Symbol – “F” | Test Valid False Symbol – “0” |
| REQ5 | Test Header Bits | Test Header AND | Test Header SINGLE |  |
| REQ6 | Test true AND | Test false AND | Test true XOR | Test false XOR | Test true Single | Test false  Single |
| REQ7 | Test Empty Truth Symbol-“” | Test Empty False Symbol-“” | Test Empty Size-“” |
| REQ8 | Test 404 page-“/blah” |