CS1632 – Deliverable 3: Automated System Testing of a Web Application

Project: Truth Table using Katalon

(repository link: https://github.com/yds725/D3

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**Description**:

This project was little bit tricky because I had to work by myself. Also, I am new to html and web application. That also made things rough. I am taking another class that used jinja tag which is similar to erb so I had an idea how to use erb even though I think erb is easier to use than jinja tag.

I had hard time and trouble using Katalon to test web application. I am very accustomed to do manual testing or creating unit test (minitest) manually so I was little confused about how to use Katalon. It does everything automatically by just clicking on website. However, setting up assert statement, target and value actually requires some good knowledge of html or DOM. I think using Katalon is very convenient in some situations but it was harder for me to set up test plans or test suites by requirement.

The reason is that it seems like website and web application functions explicitly (like user only looking at external appearance, not how website is built in detail) so I had trouble thinking about what there is actually test for.

I think this is difference between black-box and white-box testing. For this Katalon and web application testing, tester needs sufficient knowledge about html, DOM structure, and how https methods work.

Overall, this assignment was tougher than others because I had hard time to implement truth table (html, erb) and set up test plan using Katalon.

Traceability Matrix

**Requirement1: Check-Args-Text-Main,** Check-Args-Input-Box

**Requirement2:**

**Back-To-Main-From-Table, Reload-Main-Page-By-Link**

Back-To-Main-From-Args-Error, Back-To-Main-From-Invalid-Addr-Error

**Requirement 3:**

Display-Invalid-Page-Error, Display-Direction-When-Invalid-Args

**Requirement 4:**

Valid-User-Input-Test, Test-More-Than-Single-Characters, Valid-Size-Test-Edge-Case, Test-Two-Symbols-Equal-Invalid, Test-Size-Input-Non-Numeric-Corner-Case, Test-Size-Input-Negative-Edge

**Requirement 5:**

Test-Display-Binary-Bit-Properly, Test-Top-Row-Display-Properly

**Requirement 6:**Test-Logical-And-Properly,Test-Logical-Or-Properly, Test-Logical-XOR-Properly

**Requirement 7:** Test-No-Input-To-Default-Values

**Requirement 8:** Test-Handle-Invalid-Page-Error

