CS 1632 - DELIVERABLE 3: Automated System Testing of a Web Application

Jessica Chan – jmc282

https://github.com/jmc282/D3

**Summary**

I faced some difficulties with writing the app because I didn’t have a clear idea about how to make a dynamic truth table at first. However, It came along quickly after I found out ruby has a .permutation() method for arrays. The biggest problem I had was writing get ‘/’ to work correctly for defaulting and validating input. I did not realize that before the submit button is pressed, all parameters are set to nil, but after the button is pressed (with no input) the parameters are set to the empty string. It was an awfully important distinction. The app is fully functional, but the table generation is very slow for sizes greater than 7. The only difficulties I had with testing was distinguishing the very slight differences in the tests for many of the requirements.

**Traceability Matrix**

REQUIREMENT 1: TEST-MAIN-DISPLAY

REQUIREMENT 2: MAIN-RELOAD-LINK

TABLE-LINK-BACK

INVALID-PARAM-LINK-BACK

NOT-FOUND-LINK-BACK

REQUIREMENT 3: INVALID-SIZE-PARAM

INVALID-DUPLICATE-PARAMS

INVALID-SYMBOL-PARAM

INVALID-NONINTEGER-SIZE-PARAM

INVALID-MULTI-CHAR-PARAMS

INVALID-MIXED-PARAMS

REQUIREMENT 4: VALID-TRUE-FALSE-PARAMS

VALID-MIXED-PARAMS

REQUIREMENT 5: VALID-PARAMS-TABLE

REQUIREMENT 6: VALID-PARAMS-TABLE-2

REQUIREMENT 7: NO-PARAMS-DEFAULT-TABLE

REQUIREMENT 8: NOT-FOUND-ERROR-PAGE

