**COMP5202**

Login System Test Plan

Introduction

Outlined in this test plan is the process for testing the Login System application. Its purpose is to ensure the correct outputs are displayed to the user and to find invalid inputs.

Test Items

Login System app v0.1a (Alpha release)

This application is contained in the file methods\_login\_system.sln, with additional files in the methods\_login\_system folder required to run the application in Visual Studio 2017.

Test Environment

This application is designed to run as a console application in Visual Studio 2017.

No other specific systems required for testing.

Scenario

Scenario 1 – Test to see if valid username and password inputs from the user will display a message that both are valid and exit the loops.

Scenario 2 – Test what happens if the user enters an invalid username and make sure the user cannot progress to entering a password without a valid username.

Scenario 3 – Test what happens if the user enters two matching passwords of invalid length.

Scenario 4 – Test what happens if the user enters two different passwords of valid length.

Testing Method

This test plan utilizes two types of testing, black box testing (check inputs and outputs are appropriate) and white box testing (inspecting the code).

Pass / Fail Criteria

Scenario 1

Inputs Outputs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Username | Password | Confirm Password | Accepted? |
| Expected | marysue88 | password123 | password123 | Valid username & password |
| Actual | marysue88 | password123 | password123 | ? |

Scenario 2

Inputs Outputs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Username | Password | Confirm Password | Accepted? |
| Expected | mary | - | - | Username error msg, password prompt not accessible |
| Actual | mary | ? | ? | ? |

Scenario 3

Inputs Outputs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Username | Password | Confirm Password | Accepted? |
| Expected | marysue88 | pass | pass | Password error msg |
| Actual | marysue88 | pass | pass | ? |

Scenario 4

Inputs Outputs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Username | Password | Confirm Password | Accepted? |
| Expected | marysue88 | password | passworr | Valid username, password error msg |
| Actual | marysue88 | password | passworr | ? |

Modification Notes

Scenario 1 – Check that correct input of all variables results in a successful login and application closes.

Scenario 2 – Check that user is prompted to re-enter their username if it is invalid and cannot reach the password prompt without a valid username.

Scenario 3 – Check that even with matching passwords a password of 8 or more characters is required.

Scenario 4 – Check that even with passwords of 8 or more characters, matching passwords are required.