Db Edit Menu

Test plan

Version <3.0>

<4/24/2020>

Document Control

Approval

The Guidance Team and the reviewers shall approve this document.

Document Change Control

|  |  |
| --- | --- |
| Initial Release: | 1.0 |
| Current Release: | 3.0 |
| Indicator of Last Page in Document: | % |
| Date of Last Review: | 4/22/20 |
| Date of Next Review: | N/A |
| Target Date for Next Update: | N/A |

Distribution List

This following list of people shall receive a copy of this document every time a new version of this document becomes available:

Guidance Team Members: Dr. Steven Roach

Customer: Dr. Steven Roach

Software Team Members: Sebastian Nunez

Peter G. Hanson

Ricardo A. Sanchez

Change Summary

The following table details changes made between versions of this document

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Modifier | Description |
| 1.0 | 4/6/2020 | Sebastian Nunez | Completed Sections 1-3 |
| 2.0 | 4/17/2020 | Sebastian Nunez | Revisions to Sections 3-5 |
| 3.0 | 4/22/2020 | Sebastian Nunez | Revision of typos and formatting of Document |

Note: The template presented in this document was taken from:

Donaldson, S., and S. Siegel, *Successful Software Development*. Upper Saddle River, NJ: Prentice Hall, 2001, pp. 321-323.

Note: The template presented in this document was taken from: Donaldson, S., and S. Siegel, *Successful Software Development*. Upper Saddle River, NJ: Prentice Hall, 2001, pp. 321-323 and modified by Humberto Mendoza and Steve Roach.

Supplementary information is from:

Pfleeger, S. *Software Engineering, Theory and Practice*. Upper Saddle River, NJ: Prentice Hall, 1998, p. 365.

Table of Contents

[Document Control ii](#_Toc38639030)

[Approval ii](#_Toc38639031)

[Document Change Control ii](#_Toc38639032)

[Distribution List ii](#_Toc38639033)

[Change Summary ii](#_Toc38639034)

[1. Introduction 1](#_Toc38639035)

[1.1. Purpose 1](#_Toc38639036)

[1.2. Scope 1](#_Toc38639037)

[1.3. System Overview 1](#_Toc38639038)

[1.4. Suspension and Exit Criteria 1](#_Toc38639039)

[1.5. Document Overview 1](#_Toc38639040)

[1.6. References 1](#_Toc38639041)

[2. Test Items and Features 2](#_Toc38639042)

[2.1. Edit Menu 2](#_Toc38639043)

[2.1.1. Undo 2](#_Toc38639044)

[2.1.2. Copy Row 2](#_Toc38639045)

[2.1.3. Paste Row 2](#_Toc38639046)

[2.1.4. Insert Row 2](#_Toc38639047)

[2.1.5. Delete Row 2](#_Toc38639048)

[3. Testing Approach 3](#_Toc38639049)

[4. Test Specifications 4](#_Toc38639050)

[4.1. Test 01 4](#_Toc38639051)

[4.2. Test 02 2](#_Toc38639052)

[4.3. Test 03 2](#_Toc38639053)

[4.4. Test 04 2](#_Toc38639054)

[4.5. Test 05 2](#_Toc38639055)

[4.6. Test 06 2](#_Toc38639056)

[4.7. Test 07 2](#_Toc38639057)

[5. Test Schedule 3](#_Toc38639058)

[6. Appendix 4](#_Toc38639059)

# Introduction

This project is to test a DB Edit Options for the class CS 5387 Software Integration and Testing.

## Purpose

The purpose of this test plan is to create a unit test plan to derive any possible faults in code for the functionality of the Edit Menu Options.

## Scope

This project is created for CS 5387 to test the edit menu options of the dbEdit.jar attached in the following GitHub repository: <https://github.com/CS5387/testplangroup3-team6>.

## System Overview

The edit menu options serve to insert, copy, paste, and delete a row in the opened tables. The user can also search any specific component they want. Any performed action can also be undone using the undo option.

## Suspension and Exit Criteria

All tests will be executed. If 80% of the tests pass, then the system is ready to be integrated into the full system. All the critical tests identified in the document must pass to show that the system has achieved the base functionality needed for deployment.

## Document Overview

The remainder of the document will be focused on identifying the test cases for the edit menu options and the components of those tests.

## References

The repository of <https://github.com/CS5387/testplangroup3-team6> must be downloaded for use to test the dbEdit.jar developed by Dr. Roach.

# Test Items and Features

This section contains the features of the dbEdit to be tested.

## Edit Menu

The edit menu is in the file menu bar of the table view. Its functionality serves to contain the editing options the user has for a table.

### Undo

Undo is an edit option that allows the user to undo the previously performed action.

### Copy Row

Copy row is an edit option that allows the user to copy the selected row to their clipboard.

### Paste Row

Paste row is an edit option that allows the user to paste the row in their clipboard into a new row.

### Insert Row

Insert row is an edit option that will insert a new row at the end of the table.

### Delete Row

Delete row is an edit option that allows the user to delete the currently selected row.

# Testing Approach

The testing approach used for this unit testing is black box testing through dynamic analysis. These tests are designed to exercise system functions one by one.

Table 1: Test Plan

|  |  |  |
| --- | --- | --- |
| **TEST SUITE <Identifier>** | | |
| **Description of Test Suite** | **The following test cases will entail the testing of all edit option functionality excluding search functionality.** | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| 01 | **Test Insert Row Option for appending row to end of table.** | **High** |
| 02 | **Test Delete Row Option for correct row deletion.** | **High** |
| 03 | **Test Copy & Paste Row Options to test copy functionality.** | **High** |
| 04 | **Test Undo Option to see if actions can be undone.** | **High** |
| 05 | **Test Column Dragging** | **High** |
| 06 | **Test Row Editing** | **Low** |
| 07 | **Test Column Header Editing** | **Low** |

‘

# Test Specifications

This section is composed of the test input, procedures, and outcomes for each test case. The test methods will be established in a table format.

## Test 01

**Objective:** Test Insert Row Option for appending row to end of table.

**Notes:** The Insert Row Option is vital towards adding new rows to the table. This functionality being critical towards the system.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 01 | | | | Current Status: Pending | | |
| Test title: Test Insert Row Option | | | | | | |
| Testing approach: By running dBEdit.jar and opening the file TEST\_DB.xml. Then double clicking the CONSTRAINT\_TABLE option to open that table. Once the menu is open the test can begin. | | | | | | |
| STEP  1  2 | OPERATOR ACTION  Open the CONSTRAINT\_TABLE.xml using dbEdit.jar.  Press Control+i on the keyboard. | PURPOSE  This table will be used for testing.  Control+i is the shortcut for row insertion. | | | EXPECTED RESULTS  The table should open with no errors.  A new row should appear at the bottom of the table. | COMMENTS |
| Concluding Remarks: | | | | | | |
| Testing Team:  Sebastian Nunez  Peter Hanson  Ricardo Sanchez | | | Date Completed: Pending | | | |

## Test 02

**Objective:** Test Delete Row Option for deleting a specified row in the table.

**Notes:** The Delete Row Option is vital towards adding deleting rows to the table. This functionality being vital towards the system.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 03 | | | | Current Status: Pending | | |
| Test title: Test Delete Row Option | | | | | | |
| Testing approach: By running dBEdit.jar and opening the file TEST\_DB.xml. Then double clicking the CONSTRAINT\_TABLE option to open that table. Once the menu is open the test can begin. | | | | | | |
| STEP  1  2  3 | OPERATOR ACTION  Open the CONSTRAINT\_TABLE.xml using dbEdit.jar.  Select a Row to Delete on the table by clicking a cell in the row  Press Control+d on the keyboard. | PURPOSE  This table will be used for testing.  Determining which row should be deleted  Control+d is the shortcut for row deletion. | | | EXPECTED RESULTS  The table should open with no errors.  Cursor is on selected cell in the selected row.  The selected row should be deleted from the table. | COMMENTS |
| Concluding Remarks: | | | | | | |
| Testing Team:  Sebastian Nunez  Peter Hanson  Ricardo Sanchez | | | Date Completed: Pending | | | |

## Test 03

**Objective:** Test Copy & Paste Row Options for copying and adding a specified row in the table.

**Notes:** The Copy & Paste Row Options is vital towards copying selected rows in the table. This functionality being vital towards the system.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 03 | | | | Current Status: Pending | | |
| Test title: Test Copy & Paste Row Options | | | | | | |
| Testing approach: By running dBEdit.jar and opening the file TEST\_DB.xml. Then double clicking the CONSTRAINT\_TABLE option to open that table. Once the menu is open the test can begin. | | | | | | |
| STEP  1  2  3  4 | OPERATOR ACTION  Open the CONSTRAINT\_TABLE.xml using dbEdit.jar.  Select a Row to copy in the table by clicking a cell in the row  Press Control+c on the keyboard.  Press Control+p on the keyboard. | PURPOSE  This table will be used for testing.  Determining which row should be copied.  Control+c is the shortcut for copying a row.  Control+p is the shortcut for pasting a row. | | | EXPECTED RESULTS  The table should open with no errors.  Cursor is on selected cell in the selected row.  The selected row should be deleted from the table.  The previously selected row should be pasted at the end of the table. | COMMENTS |
| Concluding Remarks: | | | | | | |
| Testing Team:  Sebastian Nunez  Peter Hanson  Ricardo Sanchez | | | Date Completed: Pending | | | |

## Test 04

**Objective:** Test Undo Option to undo any performed action.

**Notes:** The Undo Option is vital towards fixing mistakes the user makes. This functionality being vital towards the system.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 04 | | | | Current Status: Pending | | |
| Test title: Test Undo Option | | | | | | |
| Testing approach: By running dBEdit.jar and opening the file TEST\_DB.xml. Then double clicking the CONSTRAINT\_TABLE option to open that table. Once the menu is open the test can begin. | | | | | | |
| STEP  1  2  3  4 | OPERATOR ACTION  Open the CONSTRAINT\_TABLE.xml using dbEdit.jar.  Select a Row to copy in the table by clicking a cell in the row  Press Control+d on the keyboard.  Press Control+u on the keyboard. | PURPOSE  This table will be used for testing.  Determining which row should be copied.  Control+d is the shortcut for row deletion.  This shortcut should undo the row deletion. | | | EXPECTED RESULTS  The table should open with no errors.  Cursor is on selected cell in the selected row.  The selected row should be deleted from the table.  The previously deleted row should reappear in the same location it was prior deletion. | COMMENTS |
| Concluding Remarks: | | | | | | |
| Testing Team:  Sebastian Nunez  Peter Hanson  Ricardo Sanchez | | | Date Completed: Pending | | | |

## Test 05

**Objective:** Test if columns can be dragged.

**Notes:** This editing functionality will make it easier to categorize and organize tables.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 05 | | | | Current Status: Pending | | |
| Test title: Test Column Drag | | | | | | |
| Testing approach: By running dBEdit.jar and opening the file TEST\_DB.xml. Then double clicking the CONSTRAINT\_TABLE option to open that table. Once the menu is open the test can begin. | | | | | | |
| STEP  1  2 | OPERATOR ACTION  Open the CONSTRAINT\_TABLE.xml using dbEdit.jar.  Click and Drag the column with the header “ATTENTION1” to the immediate left of “RESTRICTION\_TYPE” | PURPOSE  This table will be used for testing.  This is done to change the location of the column | | | EXPECTED RESULTS  The table should open with no errors.  The column of “ATTENTION1” will become the 3rd column and “RESTRICTION\_TYPE” will become the 4th column. | COMMENTS |
| Concluding Remarks: | | | | | | |
| Testing Team:  Sebastian Nunez  Peter Hanson  Ricardo Sanchez | | | Date Completed: Pending | | | |

## Test 06

**Objective:** Test if rows can be edited

**Notes:** This editing functionality is used to manipulate the contents of individual cells.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 06 | | | | Current Status: Pending | | |
| Test title: Test Row Editing | | | | | | |
| Testing approach: By running dBEdit.jar and opening the file TEST\_DB.xml. Then double clicking the CONSTRAINT\_TABLE option to open that table. Once the menu is open the test can begin. | | | | | | |
| STEP  1  2  3 | OPERATOR ACTION  Open the CONSTRAINT\_TABLE.xml using dbEdit.jar.  Click the 5th row of the 1st column.  Type “58” | PURPOSE  This table will be used for testing.  This is done to select the row to be manipulated.  To append onto the current content the text “58” | | | EXPECTED RESULTS  The table should open with no errors.  The cell in row 5 column 1 is selected.  The cell should have the original content with the suffix of “58”. | COMMENTS  The rest of the system should continue to function according to the requirements. |
| Concluding Remarks: | | | | | | |
| Testing Team:  Sebastian Nunez  Peter Hanson  Ricardo Sanchez | | | Date Completed: Pending | | | |

## Test 07

**Objective:** Test if column headers can be edited

**Notes:** The user should not be able to edit column headers.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 07 | | | | Current Status: Pending | | |
| Test title: Test Column Header Editing | | | | | | |
| Testing approach: By running dBEdit.jar and opening the file TEST\_DB.xml. Then double clicking the CONSTRAINT\_TABLE option to open that table. Once the menu is open the test can begin. | | | | | | |
| STEP  1  2 | OPERATOR ACTION  Open the CONSTRAINT\_TABLE.xml using dbEdit.jar.  Click the column header “ATTENTION1” | PURPOSE  This table will be used for testing.  This is done to select the column header to be manipulated. | | | EXPECTED RESULTS  The table should open with no errors.  The previously selected cell should remain selected. Not allowing you to select column headers for editing. | COMMENTS |
| Concluding Remarks: | | | | | | |
| Testing Team:  Sebastian Nunez  Peter Hanson  Ricardo Sanchez | | | Date Completed: Pending | | | |

# Test Schedule

This section includes the test schedule provided for completion of specific tests in respect to time.

|  |  |  |
| --- | --- | --- |
| **Task and date** | **People** | **Description** |
| Test 1 TBD | TBD | Complete and document Test 1 |
| Test 2 TBD | TBD | Complete and document Test 2 |
| Test 3 TBD | TBD | Complete and document Test 3 |
| Test 4 TBD | TBD | Complete and document Test 4 |
| Test 5 TBD | TBD | Complete and document Test 5 |
| Test 6 TBD | TBD | Complete and document Test 6 |
| Test 7 TBD | TBD | Complete and document Test 7 |

# Appendix

All files necessary for the completion of these test cases are located in the GitHub repository: <https://github.com/orgs/CS5387/teams/team6>

To access these files, they must either be downloaded from GitHub or cloned using the link provided on GitHub. To clone the repository the first step is to open the command prompt on their computer. The proceed to use cd to enter the directory they want this to be cloned to. Then enter the command “git clone <https://github.com/CS5387/testplangroup3-team6.git>” to have it on their computer.

%