Database Editor

Test plan

Version 4.0

04/24/2020

**Document Control**

**Approval**

The Guidance Team and the reviewers shall approve this document.

**Document Change Control**

|  |  |
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**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. Steve Roach

Producer: Ricardo Sanchez

Reviewers: Peter Hanson

Brian Cardiel

**Change Summary**

The following table details changes made between versions of this document

|  |  |  |  |
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| Version | Date | Modifier | Description |
| 1.0 | 4/11/2020 | Brian Cardiel | Creation and adding of Section 1 |
| 1.1 | 4/16/2020 | Peter Hanson | Finished 1st Review |
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| 3.1 | 4/22/2020 | Peter Hanson | Finished 2nd Review |
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Note: The template presented in this document was taken from:

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Supplementary information is from:

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# 1. Introduction

The following section includes detailed information regarding the system to be tested and its test plan.

## Purpose

The purpose of this file is to provide documentation of the tests and test types performed on the “dbEdit” script or the database text editor. This test plan will cover black box testing and describe the application from the user’s point on view. The test plan will focus on one of the four modules of the database text editor.

## Scope

This document will be modified multiple times. This document has two reviewers and one modifier. Once the reviewers provide feedback on the content of the document, the author or modifier will update the document based on feedback. This process will be repeated until the document has been completed.

## System Overview

The database text editor system is composed of multiple modules, this test plan will focus on the file tab module.

The file tab consists of multiple functions, the functions include Save, save as, print to fit, print to fit, and print normal.

## Suspension and Exit Criteria

There is no suspension criteria for this project. Exit criteria requires 100% pass rate for the tests provided on this document.

## Document Overview

The remainder of the document is composed of the following sections:

Section 2: Test of the functionality on the database table viewer.

Section 3: Explanation of the testing approach taken when testing the application.

## References

[1] Spec.docx provided by professor, Dr. Roach.

[2] GitHub provided and initialized by professor, Dr. Roach.

[3] dbEdit.jar provided by professor, Dr. Roach.

# Test Items and Features

The author of this test plan belongs to group 1, this section will describe the test items for group 1 only. The task for group 1 is to focus on file menu operations excluding compare file to other version, check for duplicate rows, and filter. This includes the search menu option on the database window.

* The Save an edited file function allows the user to modify a file, then to save the changes made to that file.
* The Save as option allows the user to save the current project as a new project with a different name or even different type.
* The Print to fit functionality allows the user to print the current project with no white space.
* Print Normal Fit functionality allows the user to print the current project or save as a pdf.
* Print CSV converts the current project to a CSV file so the user can print it as a CSV table.

# Testing Approach

The following tests are designed to test file menu operations. These tests are significant types of operations, 100% of them are critical, if any of the critical tests can’t be completed, i.e. they fail, testing must continue until they all pass.

**Table 1: Test Plan**

|  |  |  |
| --- | --- | --- |
| **TEST SUITE <Identifier>** | | |
| **Description of Test Suite** | The test suite will focus on testing the functionality of the buttons located on the file menu. | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| 1 | **Save an edited file** | **High** |
| 2 | **Save as** | **High** |
| 3 | **Print to Fit** | **High** |
| 4 | **Print Normal** | **High** |
| 5 | **Print CSV** | **High** |

# Test 1

This section describes tests in detail.

## Test 1

**Objective:** The objective of this rest case is to test the Save functionality, confirm whether an edit to a file can be saved.

**Notes:** Screenshots were provided to display expected results, the expected results are the same for any operating system that can run the dbEdir.jar file but the screenshots may vary since the screenshots are the results of a Windows OS. It is recommended to zoom into the screenshots if it’s difficult to read.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 1 | | | | | Current Status: Pending | |
| Test title: **Save functionality** | | | | | | |
| Testing approach: The following tests the save functionality by adding new given input to a table, then checks if the given input was saved on the table. The screenshots on the “Expected results” column should match after performing the corresponding operator action. | | | | | | |
| STEP | OPERATOR ACTION | PURPOSE | EXPECTED RESULTS | | | COMMENTS |
| 1 | Run “dbEdit” executive Jar file by double clicking on the file. | Initial condition |  | | |  |
| 2 | Click “file” tab then click the “open” option | To open file explorer so a file can be opened. |  | | | Make sure “Look in” dropdown displays the address where the project’s xml files are located on your computer. |
| 3 | Search for the “TEST\_DB\_\_CONSTRAINT\_TABLE” XML and double click the file. | Open XML file so tables can be loaded. |  | | | There should be 2 windows open, the window that open when the program was started, and the window with the xml content that has red and yellow colors |
| 4 | On the 2nd column “Description” go 1 row down and double click on it. Erase text inside and type “Save functionality test”. | Make a change to the XML file. |  | | |  |
| 5 | Click on the “file” tab and click on the “save” button | Saves change to the XML file. |  | | |  |
| 6 | Enter on the Author input box “tester”, enter on the Description input box “save test” and click the “ok” button. | The program records the author and a description record. | Notification of file being saved. | | |  |
| 7 | Click ok on the “file Write” window. Then click the ‘X’ button on the table view (where you entered “Save functionality test”) to close it. Last close the main window by pressing the X button. | Close program completely to restart. | Program is closed. | | |  |
| 8 | Repeat step 1 to 3. | Open XML that changes has been made previously. |  | | | Notice how after reopening the file the changes made previously were saved. |
| Concluding Remarks: | | | | | | |
| Testing Team:  Producer: Brian A. Cardiel  Evaluators: Peter Hanson, Ricardo Sanchez | | | | Date Completed:  TBD | | |

## Test 2

**Objective:** The objective of this rest case is to test the “save as” functionality, confirm that you can save a file with a different name.

**Notes:** Repeating steps 1 to 3 from test 1 are required before beginning this test.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 2 | | | | | Current Status: Pending | |
| Test title: Using the save as functionality. | | | | | | |
| Testing approach: Test ensures that the save as functionality is working successfully. The screenshots on the “Expected results” column should match after performing the corresponding operator action. | | | | | | |
| STEP | OPERATOR ACTION | PURPOSE | EXPECTED RESULTS | | | COMMENTS |
| 1 | Click on the “file” tab and click the “save as” button. | Triggers the save as functionality. |  | | |  |
| 2 | Enter “test2File.xml” and click the “save” button. | Program is saving a new copy of the opened xml as “test2File.xml” on the address displayed on the file explorer. |  | | | Remember the computer address where the file is being saved. |
| 3 | Enter on the Author input box “tester”, enter on the Description input box “save as test”. | The program records the author and a description record. | Notification of file being saved. | | |  |
| 4 | Click ok on the “file Write” window. | Closes the “file write” window. | File write window disappears. XML window is still open. | | |  |
| 5 | Close everything and restart the program again. | Reset the system | Program is closed. | | |  |
| 6 | Click on “File” tab and click “open” button.  . | Starts file explorer |  | | |  |
| 7 | Go to computer address where the “test2File.xml” was created and double click the xml file. | Tests if the “test2File.xml” was correctly saved and if it opens. |  | | | Notice the name of the file on the blue bar. |
| Concluding Remarks: | | | | | | |
| Testing Team:  Producer: Brian A. Cardiel  Evaluators: Peter Hanson, Ricardo Sanchez | | | | Date Completed:  TBD | | |

## Test 3

**Objective:** The objective of this rest case is to test the “print to fit” functionality, confirm whether a file can be printed.

**Notes:** Repeating steps 1 to 3 from test 1 are required before beginning this test.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 3 | | | | Current Status: Pending | | |
| Test title: Check for duplicate rows in an empty table. | | | | | | |
| Testing approach: This test will be conducted using the dbEdit.jar file using either windows or macOS. Behavior is observed on the simulation screen. The sample screenshots on the expected results column should match the operator’s after performing the corresponding operator action. | | | | | | |
| STEP | OPERATOR ACTION | PURPOSE | | | EXPECTED RESULTS | COMMENTS |
| 1 | Run the dbEdit executable (right click the dbEdit file and click Open). | Initial condition | | |  |  |
| 2 | Click “File” on the menu bar, then click the “Open” option.  After the file search path window open, select and open the file: G4\_\_EMPTY\_TABLE.XML | Open and display the empty table: G4\_\_EMPTY\_TABLE.XML | | |  | Output: window with the table: G4\_EMPTY\_TABLE.XML |
| 3 | Click “File” on the menu bar, then click the “Check for duplicate rows”. | Check for duplicates in a table with no column fields or row fields. | | |  | Output: window with the number of duplicates. In this case, since the table is empty, it found 0 duplicates. |
| Concluding Remarks: | | | | | | |
| Testing Team:  Producer: Ricardo Sanchez  Evaluators: Sebastian Nunez, Brian Cardiel | | | Date Completed: TBD | | | |

## Test 4

**Objective:** The objective of this rest case is to test the “print normal” functionality, confirm whether a file can be printed.

**Notes:** Repeating steps 1 to 3 from test 1 are required before beginning this test.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 4 | | | | | Current Status: Pending | |
| Test title: Check the “Print to fit” functionality | | | | | | |
| Testing approach: Test ensures that when the “print to fit” functionality successfully prints a table on a given xml. The screenshots on the “Expected results” column should match after performing the corresponding operator action. | | | | | | |
| STEP | OPERATOR ACTION | PURPOSE | EXPECTED RESULTS | | | COMMENTS |
| 1 | Click on the “file” tab and click the “Print Normal” button | Trigger the “print normal” function. |  | | |  |
| 2 | Click on the drop down button and select “Microsoft Print to PDF” and click on it. | Instead of physical printing it turns the print to a digital pdf file. |  | | | The “Microsoft print to PDF” may have already been preselected. This step makes sure that option is selected. |
| 3 | Click “print” button. Window explorer opens, select destination of pdf file. Enter “test4” on file name and click “save” button. | Saves a pdf of the xml tables on selected computer directory. |  | | | 1) Alert message will appear as seen on the 1st picture.  2) File explorer appears as seen on 2nd picture.  3) Once “save” button is clicked the user will be back to the program and the file explorer will close. |
| 4 | Go to the directory of the “test4” pdf and double click it | Open the digital print of test 3 table. |  | | | Notice that it’s a pdf format. This Simulates what it would have been physically printed as a print to fit. |
| Concluding Remarks: | | | | | | |
| Testing Team:  Producer: Brian A. Cardiel  Evaluators: Peter Hanson, Ricardo Sanchez | | | | Date Completed:  TBD | | |

## Test 5

**Objective:** The objective of this rest case is to test the “Print CSV” functionality, confirm that a file is converted to CSV format so it can be printed.

**Notes:** Repeating steps 1 to 3 from test 1 are required before beginning this test.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 5 | | | | | Current Status: Pending | |
| Test title: Check the “Print CSV” functionality | | | | | | |
| Testing approach: Test ensures that when the “print to fit” functionality successfully prints a table on a given xml. | | | | | | |
| STEP | OPERATOR ACTION | PURPOSE | EXPECTED RESULTS | | | COMMENTS |
| 1 | Click on the “file” tab and click the “Print csv” button. | Trigger the “print normal” function, a CSV file will be generated. |  | | | Remember the directory that the message displays. |
| 2 | Click the “ok” button on the message. The message will disappear, go to the directory that the message. | Got to directory where CSV was generated. |  | | |  |
| 3 | Find the csv file generated, the file should be named “TEST\_DB\_CONSTRANT\_TABLE” and double click it to open. | Open CSV |  | | | Notice that the XML was converted to a CSV file so the user can print it as a table. |
| Concluding Remarks: | | | | | | |
| Testing Team:  Producer: Brian A. Cardiel  Evaluators: Peter Hanson, Ricardo Sanchez | | | | Date Completed:  TBD | | |

# Test Schedule

Below is the test schedule for reviews and adjusts.

|  |  |  |
| --- | --- | --- |
| **Task and date** | **People** | **Description** |
| Test 1 / TBD | Reviewers | Execute test 1. |
| Test 2 / TBD | Reviewers | Execute test 2. |
| Test 3 / TBD | Reviewers | Execute test 3. |
| Test 4 / TBD | Reviewers | Execute test 4. |
| Test 4 / TBD | Reviewers | Execute test 5. |

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