DbEditTestPlanAssign

Test plan

Version <3.0>

4/24/20

Document Control

Approval

The Guidance Team and the customer 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:

Producer: Hernandez, Julio

Reviewers: Cervantes, Gerardo

Ortiz, Alejandro

Client: Dr. Roach

Change Summary

The following table details changes made between versions of this document

|  |  |  |  |
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| Version | Date | Modifier | Description |
| 1.0 | 4/12/2020 | Julio A Hernandez | Initial test plan creation |
| 1.0 | 4/15/2020 | Alejandro Ortiz | Reviewed version 1.0 |
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| 3.0 | 4/24/2020 | Julio A Hernandez | Version 3 uploaded |

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.

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# Introduction

This test plan is based on the Jar file created by Dr. Roach. The intention is to fully test the functionality of the filter and search function. The strategy followed will be unit testing.

## Purpose

The purpose of this is to create adequate tests that will make sure the edit function works.

## Scope

The scope is the JAR file created by Dr. Roach. No further versions will be provided. Only this version will be tested.

## System Overview

The system analyzed is the Jar file provided by Dr. roach. This JAR file implements functions that alter the contents of a database. In addition, it lets you manipulate the display structure of the database by filters, Boolean statements, search, and other functions.

## Suspension and Exit Criteria

The termination of testing will be done when all test cases are run successfully and no further tests are created due to attained results.

## Document Overview

Test plan to test filter and search function in edit menu. This Test plan will explain the test plan in detail from the functions being tested to how each test is going to be conduicted.

## References

<https://piazza.com/class_profile/get_resource/k55rbh37ri6be/k8hjj7sn7hu7n0>

https://github.com/CS5387/testplangroup2-team\_8

# Test Items and Features

The test encapsulates the search and filter option of dbEdit jar file.

This function can search the selected database by a keyword that resides anywhere in the database.

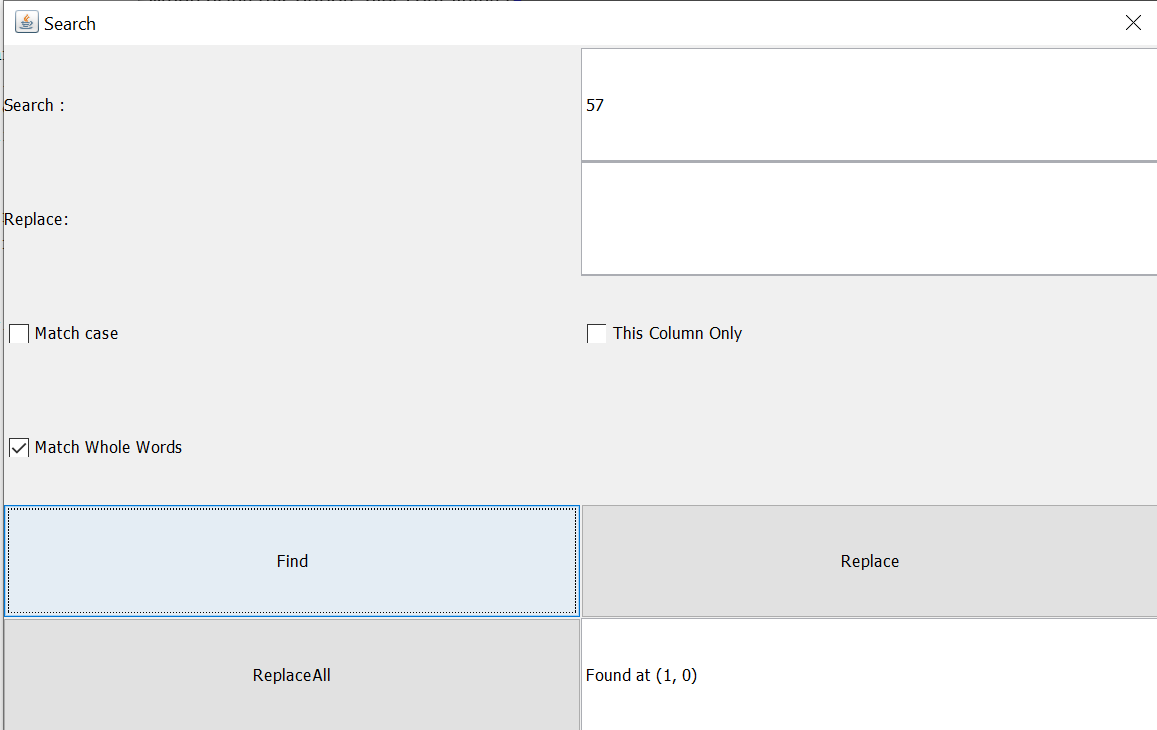
In addition, the search can be focused even more so by checking the following criteria:

* Match case
* This column only
* Match whole words

Search: search database by certain keyword

Filter: search and filter results by distinct criteria.

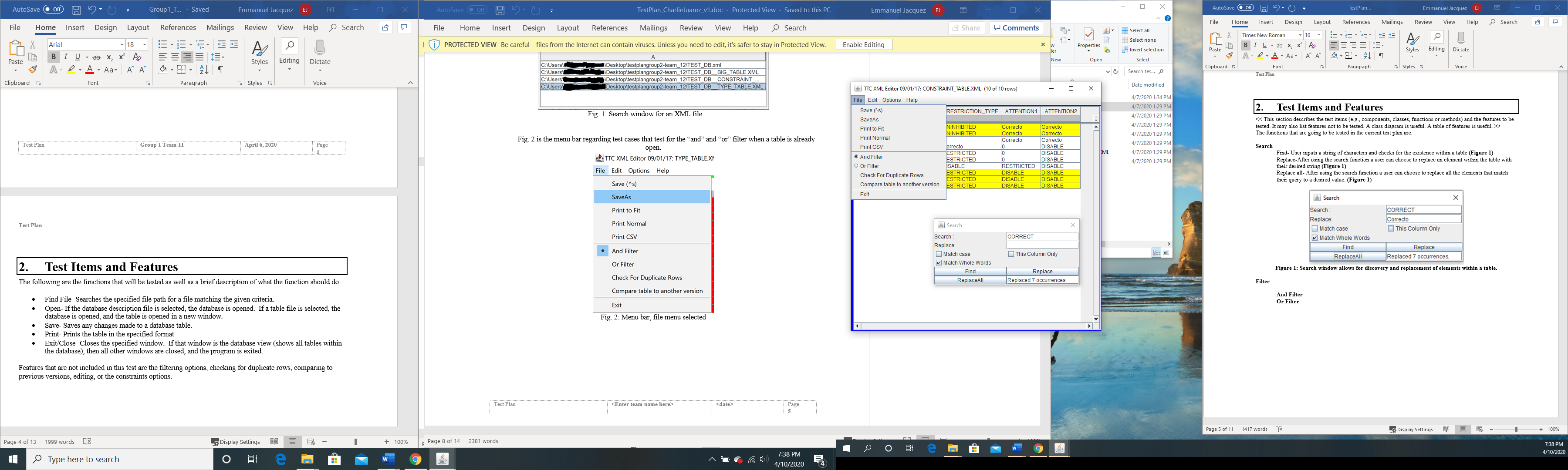
Search Function:



**Figure 2.1 Search window**

Filter Function:

This function uses boolean logic to filter currently displayed results by either an OR operation or an AND operation. By selecting the Boolean operation and adding a word on a colum, the view alters to match all the entry field.



**Figure 2.2 File window with the location of the AND and OR operator.**

# Testing Approach

The following test will test the functionality of the search and filter function using black box testing.

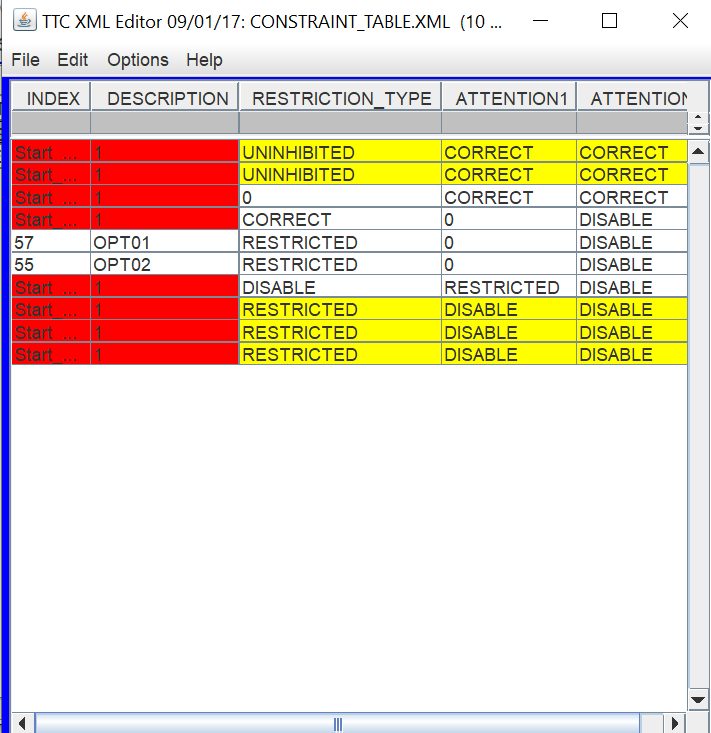
Table 1: Test Plan

|  |  |  |
| --- | --- | --- |
| **TEST SUITE 1** | | |
| **Description of Test Suite** | **Test functionality of edit and search function.** | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| 1 | **Search with a valid input** | **High** |
| 2 | **Search a nonexistent input** | **High** |
| 3 | **Search and input with duplicate entries** | **High** |
| 4 | **Functionality of AND filter** | **Medium** |
| 5 | **Functionality of OR filter** | **Medium** |

# Test Suite 1

Procedure to set up test environment.

1. Run Jar file called dbEdir.jar
2. Click on open, browse and select TEST\_DB.xml
3. Double click on CONSTRAINT\_TABLE
4. Testing environment has been successfully set up and you should see the following



Prerequisites:

* Test environment must be set up
* The Test\_DB.XML must be used
* Java must be installed in testing computer

## Test 1

**Objective:** Searcha given input

**Notes:** Meet the prerequisites stated to be able to run the test.

Be sure to use the TEST\_DB.xml and the CONSTRAINTS\_TABLE

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 1 | | | | Current Status: Pending | | |
| Test title: Test a input that is expected in a normal basis. An input that exists and will be found | | | | | | |
| Testing approach: Test a use case and make sure all pre-requisites have been met. The use case in question is the functionality of the search function. The test is intended to test the search function when there is duplicate results. | | | | | | |
| STEP  1 | OPERATOR ACTION  Click on Edit followed by the option labeled search. | PURPOSE  Set up test environment and open the search screen. | | | EXEPCTED RESULTS  The search window will launch. | COMMENTS |
| 2 | Input “OPT02” in the search dialog box and press find. | Test the behavior of the find function. | | | The search will conclude and display the location of the given input. (9,1) |  |
| **Figure 4.1: Expected output Test No. 1** | | | | | | |
| Testing Team:  TBA | | | Date Completed:  TBA | | | |

## Test 2

**Objective:** Search a nonexistent input

**Notes:** Meet the perquisites stated to be able to run the test.

Be sure to use the TEST\_DB.xml and the CONSTRAINTS\_TABLE

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 2 | | | | Current Status: Pending | | |
| Test title: Search for a non-existent value | | | | | | |
| Testing approach: Test a use case and make sure all pre-requisites have been met. The use case in question is the functionality of the search function. The test is intended to test the search function when there is duplicate results. | | | | | | |
| STEP  1 | OPERATOR ACTION  Click on Edit followed by the option labeled search. | PURPOSE  Set up test environment and open the search screen. | | | EXEPCTED RESULTS  The search window will launch. | COMMENTS |
| 2 | Input “123” in the search dialog box and press find. | Test the behavior of the find function. | | | The search will conclude. Return no results and present the user with a message dictating “Search wrapped” |  |
| **Figure 4.2: Expected output Test No. 2** | | | | | | |
| Testing Team:  TBA | | | Date Completed:  TBA | | | |

## Test 3

**Objective:** Search a input with multiple duplicate values

**Notes:** Meet the perquisites stated to be able to run the test.

Be sure to use the TEST\_DB.xml and the CONSTRAINTS\_TABLE

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 3 | | | | Current Status: Pending | | |
| Test title: Search an input with duplicate results | | | | | | |
| Testing approach: Test a use case and make sure all pre-requisites have been met. The use case in question is the functionality of the search function. The test is intended to test the search function when there is duplicate results. | | | | | | |
| STEP  1 | OPERATOR ACTION  Click on Edit followed by the option labeled search. | PURPOSE  Set up test environment and open the search screen. | | | EXEPCTED RESULTS  The search window will launch. | COMMENTS |
| 2 | Input “1” in the search dialog box and press find | Test the behavior of the find function | | | The location of the first occurrence of the given input will be displayed. |  |
| **Figure 4.3: Expected output Test No. 3** | | | | | | |
| Testing Team:  TBA | | | Date Completed:  TBA | | | |

## Test 4

**Objective:** Test functionality of AND filter

**Notes:** Meet the perquisites stated to be able to run the test.

Uses boolean logic to change the displayed information. A filter word will be added and the filter option will AND it. By using these filter the results will be limited by row only.

Be sure to use the TEST\_DB.xml and the CONSTRAINTS\_TABLE

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 4 | | | | Current Status: Pending | | |
| Test title: AND Filter | | | | | | |
| Testing approach: Test a use case and make sure all pre-requisites have been met. The use case in question is the functionality of the AND filter. | | | | | | |
| STEP  1 | OPERATOR ACTION  Click on file and select the and filter. | PURPOSE  Sets up the AND filter test. | | | EXEPCTED RESULTS  The environment shall remain the same and instead it will display a checkmark next to the AND field. | COMMENTS |
| 2 | Enter the term “1” in the gray box right below description and “CORRECT” in the gray box below Attention press enter. | Activate the AND filter as soon as enter is pressed. | | | Only the rows with the field “1” AND “correct will be displayed.  3 Rows for the given table will displayed. |  |
| **Figure 4.4: Expected output Test No. 4** | | | | | | |
| Testing Team:  TBA | | | Date Completed:  TBA | | | |

## Test 5

**Objective:** Test the OR functionality of the filter function

**Notes:** Meet the perquisites stated to be able to run the test.

Uses Boolean logic to change the displayed information. A filter word will be added and the filter option will OR it. By using these filter the results will be limited by row only.

Be sure to use the TEST\_DB.xml and the CONSTRAINTS\_TABLE

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: 5 | | | | Current Status: Pending | | |
| Test title: OR Filter Function | | | | | | |
| Testing approach: Test a use case and make sure all pre-requisites have been met. The use case in question is the functionality of the OR filter. | | | | | | |
| STEP  1 | OPERATOR ACTION  Click on file and select the and filter. | PURPOSE  Sets up the OR filter test. | | | EXEPCTED RESULTS  The environment shall remain the same and instead it will display a checkmark next to the OR field. | COMMENTS |
| 2 | Enter the term “1” in the gray box right below description and “CORRECT” in the gray box below Attention press enter. | Activate the OR filter as soon as enter is pressed. | | | Only the rows with the field “1” or “correct will be displayed. As long as they have one of the fields they will be included.  8 Rows for the given table will be displayed. |  |
| **Figure 4.5: Expected output Test No. 5** | | | | | | |
| Testing Team:  TBA | | | Date Completed:  TBA | | | |

# Test Schedule

|  |  |  |
| --- | --- | --- |
| **Task and date** | **People** | **Description** |
| TBD | TBD | TBD |
|  |  |  |
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