Data Editor

Test plan

Version 1.0

4/11/2020

Document Control

Approval

The Guidance Team and the customer shall approve this document.

Document Change Control

|  |  |
| --- | --- |
| Initial Release: | 1.0 |
| Current Release: | 1.0 |
| Indicator of Last Page in Document: | $ |
| Date of Last Review: |  |
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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:

V&V Class Member

Dr. Roach

Change Summary

The following table details changes made between versions of this document

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Modifier | Description |
| 1.0 | 4/11/2020 | Juan Gaucin | Initial suites and test cases |
|  |  |  |  |
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# Introduction

<< This section gives introductory information regarding the project, the system to be tested, and the testing approach.>>

## Purpose

<< Identify the project and stipulate the test plan purpose by indicating what the document contains (e.g., organizational responsibilities, test approach, test schedule. There are generally four different types of test plans: project test plan that describes the overall strategy for testing; the system test plan that describes the system from the customer’s point of view; integration test plan that describes integration of units and subsystems; unit test plan that describes modules or classes. This section needs to identify which of these this document is.>>

## Scope

<<Specify the project software releases/versions encompassed by the plan. >>

## System Overview

<<Describe the system to be exercised by the testing approach specified in the plan. This overview serves to identify aspects of the system operation that will be the focus of the plan’s testing approach. This should align with the systems overview of other documents in the project.>>

## Suspension and Exit Criteria

<< “suspension criteria” describes when we suspend testing, to be resumed at a later time. For example, if 40% of the test cases fail, or if any of the critical test cases fail. If there are no suspension criteria, indicate that all tests cases will be executed. “Exit criteria” indicates when testing stops. This could be based on run rate (number of test cases run divided by number of test cases specified) or pass rate (number of test cases passed divided by number of test cases run, or test cases passed divided by number of test cases specified). Nominally, we expect to run all of the specified tests. We want the pass rate to be high. We might specify that all critical tests must pass, and 90% of the non-critical must pass. In general, we want this to be high. >>

## Document Overview

<<Describe the remainder of the document.>>

## References

<<List all the references applicable to the test plan. Generally, this includes project standards, SRS, SDD, and a product assurance plan.>>

# Test Items and Features

<< This section describes the test items (e.g., components, classes, functions or methods) and the features to be tested. It may also list features not to be tested. A class diagram is useful. A table of features is useful. >>

# Testing Approach

<<Describe the approach to be used to the test the system. This description includes specifying the types of tests to be performed, e.g., tests designed to exercise system functions one by one; tests designed to exercise sequences of functions that approximate operational use of the system; tests designed to stress the system to its design and requirements limits. The description lists the specific tests to be performed, but does not give the test steps. For each of these tests, give it a name and specify its objective. Label the criticality of the test cases. >>

The approach for the test of the system

Table 1: Test Plan

|  |  |  |
| --- | --- | --- |
| **TEST SUITE <Filter Function>** | | |
| **Description of Test Suite** | **The following test suite aims at testing the functionality of the filter functionality of the system.** | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| AND\_V | **Test the “AND” filter option with valid input** | **Medium** |
| AND\_I | **Test the “AND” filter option with invalid input** | **Medium** |
| OR\_V | **Test the “OR” filter option with valid input** | **Medium** |
| OR\_I | **Test the “OR” filter option with invalid input** | **Medium** |

|  |  |  |
| --- | --- | --- |
| **TEST SUITE <Search Function>** | | |
| **Description of Test Suite** | **The following test suite aims at testing the functionality of the filter functionality of the system.** | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| SE\_WW | **Test the search functionality with whole words** | **Medium** |
| SE\_MC | **Test the search functionality with matching case** | **Medium** |
| SE\_RE | **Test the search and replace functionality** | **Medium** |
| SE\_RA | **Test the search and replace functionality** | **Medium** |

# Test XX

<<The purpose of this section is to:

* document test input, specific test procedures, and outcomes.
* establish test methods,
* explain the nature and extent of each test >>

<< for each test case, complete the following: >>

## Test <AND\_V>

**Objective:** Test the functionality of the filter option with the “AND” option selected.

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: AND\_V | | | | Current Status: Pending | | |
| Test title: Test “AND” filter with valid input. | | | | | | |
| Testing approach: The test will be making use of an existing database that will be included. By default, the “AND” filter is selected so there is no action to be taken before conducting the test. The test will be conducted from the beginning by opening a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “ BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | In the blank cell underneath the column labeled “INDEX”  Enter the following text “Start”. Press the “ENTER” key. | This will begin filtering the data. | | | Only rows containing the word “Start” on the index column will be displayed. |  |
| 6 | In the blank cell underneath the column labeled “RESTRICTION\_TYPE”  Enter the following text “Correct”. Press the “ENTER” key. | This will exercise the “AND” option by filtering by two fields. | | | Only 1 row should be displayed that contains “Start” in the index column and “correct” in the restriction type column.  This demonstrates a successful test. | Failure to display only one row indicates an error and test should fail. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test <OR\_V>

**Objective:** Test the functionality of the filter option with the “OR” option selected.

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: OR\_V | | | | Current Status: Pending | | |
| Test title: Test “OR” filter with valid input. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “OR” option will need to be selected during the test. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “ BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “File” then from the menu select the radio button labeled “OR filter” | This step will enable the “OR” filter functionality | | | The window will remain the same after selecting the or option. |  |
| 6 | In the blank cell underneath the column labeled “INDEX”  Enter the following text “Start”. Press the “ENTER” key. | This will begin filtering the data. | | | Only rows containing the word “Start” on the index column will be displayed. There are two rows that contain the numbers “55” and “57” in the index column that will no longer be visible |  |
| 7 | In the blank cell underneath the column labeled “RESTRICTION\_TYPE”  Enter the following text “Restricted”. Press the “ENTER” key. | This will exercise the “OR” option by filtering by two fields. | | | The two rows containing “55” and “57” in the index column will be visible again along with the previously visible rows. | Failure to display the two rows indicated will show a failure on the filter function. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test <SE\_WW>

**Objective:** Test the search functionality with matching whole words

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_WW | | | | Current Status: Pending | | |
| Test title: Test the search functionality when the “match whole words” option is enabled. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “match whole words” option is enabled by default therefore there is no action required to activate it. Test will be conducted with a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “ BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | In the text field labeled “Search:” enter “Start\_Name” as text. | This will indicate to the system what word is being searched for. | | | The text field at the bottom of the window should display “Search wrapped”. |  |
| 7 | Click on the button labeled “Find” | This will signal the system to search for any instances of the word | | | The text field at the bottom of the window should display “Found at (0,0)”. | Failure to display the expected test will result in a test failure. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test <SE\_MC>

**Objective:** Test the search functionality with case sensitivity

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_WW | | | | Current Status: Pending | | |
| Test title: Test the search functionality when the “match whole words” option is enabled and the “match case” option is also enabled. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “match whole words” option is enabled by default therefore there is no action required to activate it. Test will be conducted with a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “ BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | In the text field labeled “Search:” enter “Start\_Name” as text. | This will indicate to the system what word is being searched for. | | | The text field at the bottom of the window should display “Search wrapped”. |  |
| 7 | Click on the button labeled “Find” | This will signal the system to search for any instances of the word | | | The text field at the bottom of the window should display “Found at (0,0)”. |  |
| 8 | In the text field labeled “Search:” enter “Start\_name” as text.  \*THIS TEST IS CASE SENSITIVE\* | This will modify the text to be searched to a lower case letter that was previously upper case | | | The text field at the bottom of the window should display “Found at (0,0)”. |  |
| 9 | Check the box labeled “Match case” | This will signal the system that the new search is case sensitive. | | | The box labeled “Match case” should display a checkmark |  |
| 10 | Click on the button labeled “Find” | This will signal the system to search for any instances of the word | | | The text field at the bottom of the window should display “Search wrapped”. This indicates that no instances matching the search with case sensitivity enabled. | Any other display would indicate a test failure. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test <SE\_RE>

**Objective:** Test the search and replace functionality

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_WW | | | | Current Status: Pending | | |
| Test title: Test the search and replace functionality of the system. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The test will follow the steps of the test SE\_WW since the test is a preliminary step for this test. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “ BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | In the text field labeled “Search:” enter “Start\_Name” as text. | This will indicate to the system what word is being searched for.. | | | The text field at the bottom of the window should display “Search wrapped”. |  |
| 7 | Click on the button labeled “Find” | This will signal the system to search for any instances of the word | | | The text field at the bottom of the window should display “Found at (0,0)”. |  |
| 8 | In the text field labeled “Replace:” enter “Test\_Change” as text.  Click on the button labeled “Replace” | This will indicate the system what the instance of the found text should be replaced with. | | | The text field at the bottom of the window should display “Found at (1,0)”.  On the window containing the database the first red box in the “INDEX” column should display “Test\_Change”. | Failure to see the change described will result in a test failure. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test SE\_RA

**Objective:** Test the search and replace all functionality

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_WW | | | | Current Status: Pending | | |
| Test title: Test the search and replace functionality of the system. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The test will follow the steps of the test SE\_WW since the test is a preliminary step for this test. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “ BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. | Failure to see the change described will result in a test failure. |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | In the text field labeled “Search:” enter “Start\_Name” as text. | This will indicate to the system what word is being searched for.. | | | The text field at the bottom of the window should display “Search wrapped”. |  |
| 7 | Click on the button labeled “Find” | This will signal the system to search for any instances of the word | | | The text field at the bottom of the window should display “Found at (0,0)”. |  |
| 8 | In the text field labeled “Replace:” enter “Test\_Change” as text.  Click on the button labeled “ReplaceAll” | This will indicate the system what the instance of the found text should be replaced with. | | | The text field at the bottom of the window should display “Replaced 8 occurences.”.  On the window containing the database, all the fields under the “INDEX” column should display “Test\_Change”. | Failure to see the change described will result in a test failure. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

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