

**“Text Filter”
Desktop application
Testing
Project**

Version 1.0

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

Revision History

Date	Version	Description	Author
21.04.2018	1.0	Created	Topolov A.

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

Table of Contents

1. Introduction	4
1.1 Purpose	4
1.2 Background	4
1.3 Scope	4
2. Test strategy	4
3. Application requirements	4
4. Compatibility testing	6
5. Functional testing	7
6. Defects	15
6.1 Functional defects	15
6.2 UI defects	20
7. Test Report	21

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

Test Plan

1. Introduction

1.1 Purpose

The purpose of this document is to describe the process of testing of Text Filter desktop application. This document allows you to get an idea of testing, ways of testing, description of the defects found and test report.

1.2 Background

Text Filter is a free application that is designed to read text documents, and also allows you to search the file for user-defined terms or phrases. Text strings are immediately filtered when entering a search phrase, and the corresponding words are highlighted in contrast color. There are several filtration modes. The search results can be copied to the clipboard.

1.3 Scope

The purpose of testing this project is to check its compliance, check its main functionality, and user interface.

The final results of the testing process will be test report with test results.

2. Test Strategy

At first all *requirements* will be listed. Compatibility testing will start after that. The program will be tested on different operational systems and different screen resolution. After that, main functionality will be tested.

Functional testing will consist of:

- Installing/Uninstalling of the application;
- opening/closing of the application;
- input data CRUD;
- input data sorting/filtration.

UI testing will take place after that. All found defects will be described and analyzed.

When verifying input data, such test design techniques as *equivalent classes* and *boundary values* will be used. *Decision tables* and *state-transition diagrams* will also be used.

3. Application requirements.

1. How Text Filter works.

In the left part of the program window, the user can organize a list of strings (or elements) of arbitrary length, and on the right - to specify filters that restrict the list of rows only to those elements that satisfy certain conditions. If the condition is fulfilled, the item in the list is displayed, otherwise it is not.

Conditions can be of three types:

- match the substring, starting with the "head" of the element. Example: among the lines "a, abc, defab, xyz" and the current filter "ab", only the string "abc" will be displayed in the list;

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

- match of the substring inside the element (including the upper and lower bounds). If a substring occurs several times in a given element, then it must also be mapped. Example: among the lines "123, 1289, 674, 77, 871, 9" and the current filter "7", only the lines "674, 77, 871" will be displayed in the list;
- coincidence of the substring on the "tail" of the element. Example: among the lines "21h, a321, ab21, f17" and the current filter "21", only the lines "a321, ab21" will be displayed in the list.

Limitations:

- if the <None> element is specified in the filter, then all rows are displayed in the list, the filtering is not performed;
- if the length of the filter is greater than the length of the row in the list, then the element is not displayed.

2. Working with files.

By selecting the appropriate items in the *File menu*, the user can:

- create a new list of rows and groups of filters;
- open an existing list and filter groups;
- save the typed list and filter groups;
- close the program.

3. Working with the clipboard.

By selecting the corresponding Edit menu items, the user can:

- copy string to clipboard;
- cut a string to the clipboard;
- insert a row from the clipboard.

4. Working with the list of strings.

User can:

- add a line to the list by typing it in the Element line and clicking the Add button;
- delete a row from the list by selecting the desired row and pressing the Delete button;
- sort the list in alphabetical order by descending / increasing by pressing the Sort z-a (Sort a-z) button, each time changing its state depending on the current sorting type.

Limitations:

- the maximum possible number of lines in the list is 20;
- the strings can only consist of a-z (lower case) and 0-9 characters.

5. Working with filter groups.

User can:

- add the filter by typing it in the Filter row and clicking the Add Filter button. The filter is added to the group, depending on the position of the switch Apply filter to ...;
- remove the filter from the group by setting the Apply filter to ... switch to the desired position, highlighting the desired filter and pressing the Delete Filter button.

Limitations:

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

- the maximum possible number of filters in any group is 10;
- filter <NONE> can not be deleted.

4. Compatibility testing.

The correct operation of the program had been tested on the following operating systems with different screen resolutions:

<i>Operational System</i>	<i>Screen Resolution</i>	<i>Result</i>
Microsoft Windows XP 32-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct
Microsoft Windows XP 64-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct
Microsoft Windows Vista 32-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct
Microsoft Windows Vista 64-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct
Microsoft Windows 7 32-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct
Microsoft Windows 7 64-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct
Microsoft Windows 8 32-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

Microsoft Windows 8 64-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct
Microsoft Windows 10 32-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct
Microsoft Windows 10 64-bit	1024 x 768	Correct
	1280 x 1024	Correct
	1366 x 768	Correct
	1600 x 900	Correct
	1920 x 1080	Correct

5. Functional testing.

TC_01: program opening. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Double click on the desktop icon		Program opens	High

TC_02: program closing with the "X" button. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on the "X" button		Program closes	High

TC_03: program window minimizing. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on the "Minimize" button		Program window minimizes	High

TC_04: program window maximizing. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on the "Maximize" button		Program window maximizes	High

TC_05: program window expanding. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program		Program window	High

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

2. Click on the "Minimize" button 3. Click on the program tab		expanded correctly	
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TC_06: Closing the program from TASK MANAGER. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Open TASK MANAGER 3. Close the program from TASK MANAGER		Program is closed	High

TC_07: New project creation. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW		New project is created	High

TC_08: Open the project. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - OPEN		Project is opened	High

TC_09: Saving the new project. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE – NEW - SAVE		New project is saved correctly	High

TC_10: Saving the opened project. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE – OPEN - SAVE		Opened project is saved correctly	High

TC_11: FILE drop down list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE		Drop down list with NEW – OPEN – SAVE – EXIT appears	High

TC_12: HELP drop down list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on HELP		Drop down list with INDEX - ABOUT appears	High

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

TC_13: EDIT drop down list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on EDIT		Drop down list with CUT – COPY - PASTE appears	High

TC_14: PASTE function after COPY. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on element to cut 3. Click on COPY - PASTE		Element is correctly pasted to the desired field	High

TC_15: INDEX tab opening. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on HELP - INDEX		INDEX window is opened	High

TC_16: ABOUT tab opening. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on HELP - ABOUT		ABOUT window is opened	High

TC_17: Scroll through the fields with the TAB button. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on TAB		Every field is working with TAB	High

TC_18: Working with ENTER button. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Pick the desired element to ENTER or function to be done 3. Press ENTER		Element is being added via ENTER button or function is accomplished with the ENTER button	High

TC_19: Copy the element with CTRL + C. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on element to copy 3. Click CTRL + C		Element is copied to the clipboard	High

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

TC_20: Paste the element with CTRL + V. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on element to copy 3. Click CTRL + V		Element is pasted to the desired field	High

TC_21: Cut the element with CTRL + X. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on element to cut 3. Click CTRL + X		Element is deleted from the field to the clipboard	High

TC_22: Delete the element with CTRL + Z. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on element to delete 3. Click on CTRL + Z		Element is deleted from the field	High

TC_23: Copy the filter with CTRL + C. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on filter to copy 3. Click CTRL + C		Filter is copied to the clipboard	High

TC_24: Paste the filter with CTRL + V. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on filter to copy 3. Click CTRL + V		Filter is pasted to the desired field	High

TC_25: Cut the filter with CTRL + X. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on filter to cut 3. Click CTRL + X		Filter is deleted from the field to the clipboard	High

TC_26: Delete the filter with CTRL + Z. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on filter to delete		Filter is deleted from the field	High

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

3. Click on CTRL + Z			
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TC_27: Input valid data in ELEMENT field. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter valid data to the ELEMENT field	Latin (sample) Cyrillic (сэмпл) Numeric (0123456789) Uppercase (SAMPLE) 1 symbol (S) Space in the beginning Space in the middle Space in the end	Data is added correctly to the field. Data is added to the list after ADD button click.	High

TC_28: Input special symbols in ELEMENT field. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter special symbols to the ELEMENT field	< > / \ ' " () { } @ #	Data is added correctly to the field. Data is added to the list after ADD button click.	High

TC_29: ELEMENT field input data valid length. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter special symbols to the ELEMENT field	Empty field (0) 50 symbols 100 symbols 500 symbols	Data is added correctly to the field. Data is added to the list after ADD button click.	High

TC_30: Input SPACE in the ELEMENT field. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter "space" to the ELEMENT field	Space ()	Data is added correctly to the field. Data is added to the list after ADD button click.	High

TC_31: Input more than 20 elements in the ELEMENT list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
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Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

1. Open the program 2. Click on FILE - NEW 3. Enter data to the ELEMENT field 4. Click on the ADD more than 20 times	Test	Message is shown: List should contain no more than 20 elements	High
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TC_32: ELEMENT list A-Z sorting with symbols. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the ELEMENT list 4. Click on the Sort a-z button	ctest atest btest	atest btest ctest	High

TC_33: ELEMENT list Z-A sorting with symbols. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the ELEMENT list 4. Click on the Sort z-a button	ctest atest btest	ctest btest atest	High

TC_34: ELEMENT list A-Z sorting with numbers. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the ELEMENT list 4. Click on the Sort a-z button	4 3 1 8 11	1 3 4 8 11	High

TC_35: ELEMENT list Z-A sorting with numbers. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the ELEMENT list 4. Click on the Sort z-a button	4 3 1 8 11	11 8 4 3 1	High

TC_36: Delete an element with DELETE button. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
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Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

1. Open the program 2. Click on FILE - NEW 3. Enter data to the ELEMENT list 4. Click on DELETE button	sample	Element is deleted from the ELEMENT list	High
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TC_37: Delete an element with BACKSPACE button. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the ELEMENT list 4. Click on BACKSPACE button	sample	Element is deleted from the ELEMENT list	High

TC_38: Input valid data in FILTER field. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter valid data to the FILTER field	Latin (sample) Cyrillic (сэмпл) Numeric (0123456789) Uppercase (SAMPLE) 1 symbol (S) Space in the beginning Space in the middle Space in the end	Data is added correctly to the field. Data is added to the list after ADD FILTER button click.	High

TC_39: Input special symbols in FILTER field. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter special symbols to the FILTER field	< > / \ ' " () { } @ #	Data is added correctly to the field. Data is added to the list after ADD FILTER button click.	High

TC_40: FILTER field input data length. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter special symbols to the FILTER field	Empty field (0) 50 symbols 100 symbols 500 symbols	Data is added correctly to the field. Data is added to the list after ADD FILTER button click.	High

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

TC_41: Input SPACE in the FILTER field. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter "space" to the FILTER field	Space ()	Data is added correctly to the field. Data is added to the list after ADD FILTER button click.	High

TC_42: Input more than 10 elements in the FILTER 1 list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the FILTER field 4. Click on the ADD FILTER more than 10 times	Test	Message is shown: List should contain no more than 10 elements	High

TC_43: Input more than 10 elements in the FILTER 2 list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the FILTER field 4. Click on the ADD FILTER more than 10 times	Test	Message is shown: List should contain no more than 10 elements	High

TC_44: Input more than 10 elements in the FILTER 3 list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the FILTER field 4. Click on the ADD FILTER more than 10 times	Test	Message is shown: List should contain no more than 10 elements	High

TC_45: Delete an item from the FILTER list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Test data	Expected result	Priority
1. Open the program 2. Click on FILE - NEW 3. Enter data to the FILTER field	Test	The item is deleted from the filter list	High

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

4. Click on the DELETE FILTER			
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6. Defects.

6.1. Functional defects.

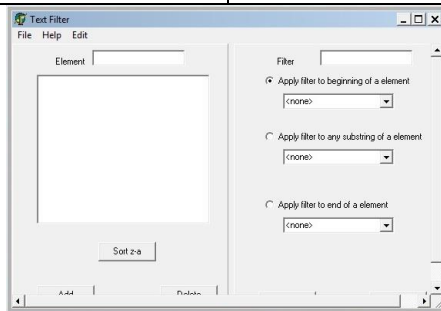
During the functional testing the following bugs were found.

Bug_01: new project creation fails. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

<i>Description</i>	<i>Actual result</i>	<i>Expected result</i>	<i>Severity / Priority</i>
1. Open the program 2. Click on the FILE - NEW	New project does not opens	New project opens	High / High

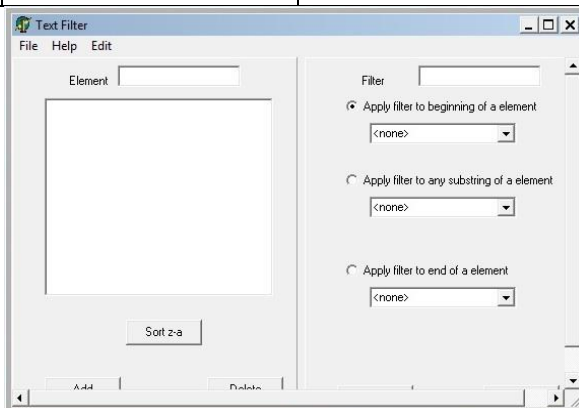
Bug_02: new project does not open in full window. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

<i>Description</i>	<i>Actual result</i>	<i>Expected result</i>	<i>Severity / Priority</i>
1. Open the program 2. Click on the FILE - NEW	The project opens in a window with bottom and side scrolls	New project opens without scrolls	Low / Medium



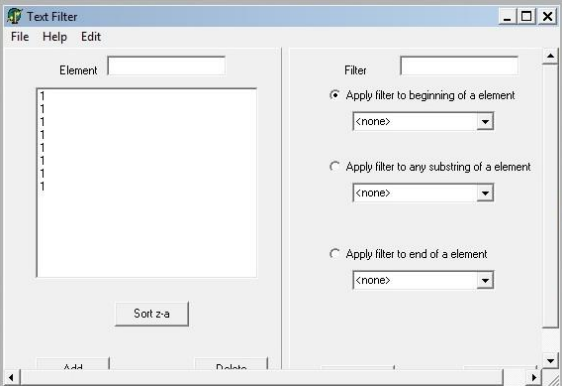
Bug_03: when new project is opened not all the elements are fully viewed. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

<i>Description</i>	<i>Actual result</i>	<i>Expected result</i>	<i>Severity / Priority</i>
1. Open the program 2. Click on the FILE - NEW	Not all the elements of the window are seen at once	All the elements are seen properly at once	Low / Low

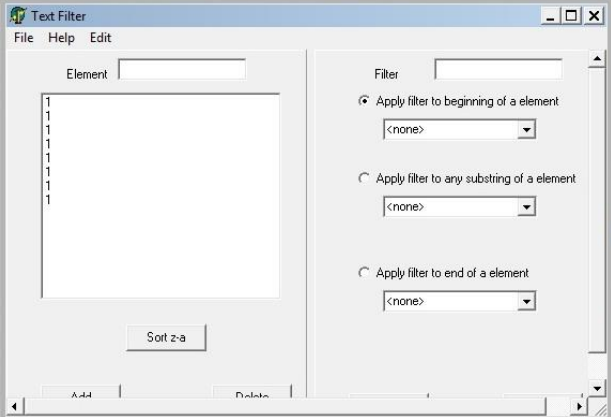


Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

Bug_04: project does not open in full window. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE - OPEN	The project opens in a window with bottom and side scrolls	New project opens without scrolls	Low / Low
			

Bug_05: when project is opened not all the elements are fully viewed. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE - OPEN	Not all the elements of the window are seen at once	All the elements are seen properly at once	Low / Low
			

Bug_06: No dialog window when closing the program with "X" button. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.


Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the "X" button	Program closes without any dialog window	Dialog window appears: "Do you want to close the program?"	Medium / Medium

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

Bug_07: No dialog window when closing the program with “X” button when project is opened.
Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Open the project 3. Click on the “X” button	Program closes without any dialog window	Dialog window appears: “Do you want to close the program?”	High / Medium

Bug_08: Error message appears when exiting the program. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE - EXIT	Error message appears	Dialog window appears: “Do you want to close the program?”	High / High
			

Bug_09: “About” window bug. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the HELP – ABOUT 3. Click on the OK button	Window ABOUT does not close	Window ABOUT closes	High / High

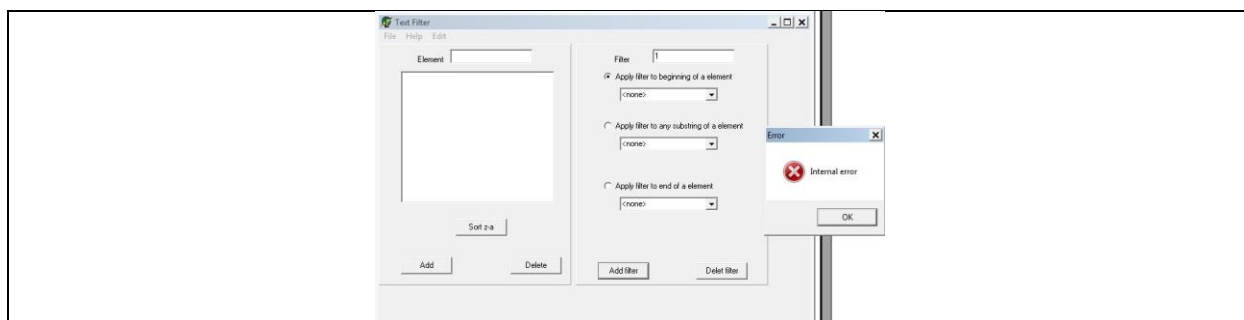
Bug_10: “About” window bug. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the HELP – ABOUT 3. Click on the OK button multiple times	The program freezes	Window ABOUT closes	High / High

Bug_11: When trying to enter more than 10 filters in the filter 1 field, the program crashes and an error occurs. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE – NEW 3. Add more than ten filters in the filter 1 field	The program crashes and error occurs	User can’t add more than ten filters in the field	High / High

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

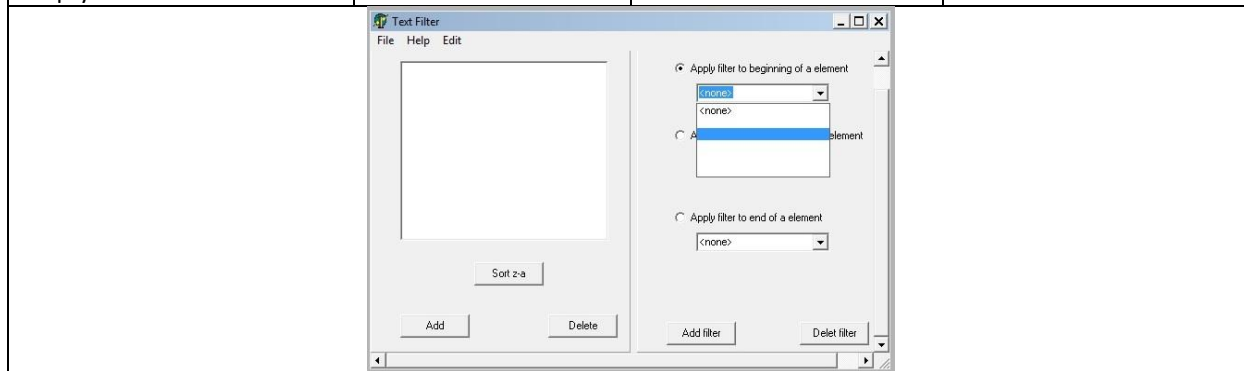


Bug_12: When trying to enter more than 10 filters in the filter 2 field, the program freezes. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE - NEW 3. Add more than ten filters in the filter 2 field	The program freezes	User can't add more than ten filters in the field	High / High

Bug_13: Empty lines in the drop-down list of filters. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

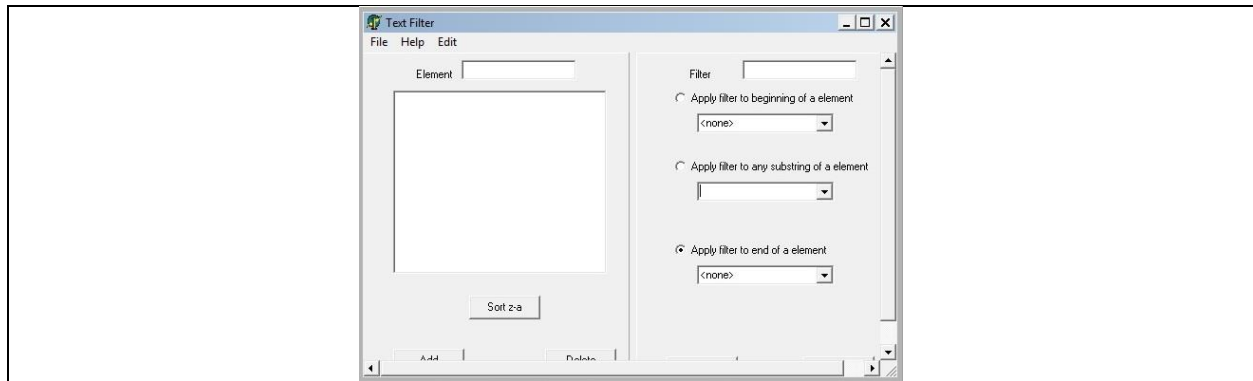
Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE – NEW 3. Click on ADD FILTER with empty FILTER field	Empty lines appear in the drop-down list of filters.	No filters are being added to the drop-down list.	Low / Low



Bug_14: It is possible to delete the "NONE" filter from the field. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE - NEW 3. Click on the NONE filter and then BACKSPACE	NONE word is being deleted from the field	User can't delete the symbols from the field.	Medium / Medium

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018



Bug_15: When trying to enter symbols in the filter field the list of elements disappears. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE - OPEN 3. Add symbols in the filter field	The list of elements disappears	User can add filters only with the ADD FILTER button.	High / High

Bug_16: It is possible to add identical filters in the filter list. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE - NEW 3. Add several identical filters	User can add identical filters	User can't add identical filters	Low / Low

Bug_17: Sorting a-z with the numbers is wrong. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

Description	Actual result	Expected result	Severity / Priority
1. Add several different elements with numbers 2. Click on the SORT button	Sorting is wrong	All numbers are sorted correctly	High / High

Bug_18: Sorting z-a with the numbers is wrong. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Add several different elements with numbers 2. Click on the SORT button	Sorting is wrong	All numbers are sorted correctly	High / High

Bug_19: ELEMENT field error. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Add symbols in the ELEMENT field 2. Click on the ADD button	The added symbols remain in the field after the ADD button had been pushed	The field becomes empty	Medium / Low

Bug_20: BACKSPACE does not work in the ELEMENT field. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Add symbols in the ELEMENT field 2. Press on the BACKSPACE button	BACKSPACE does not work	Symbols are deleted from the field	Low / Low

Bug_21: ELEMENTS can be deleted from the list without any notification. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Add several elements to the list 2. Click on the DELETE button	The program deletes one element from the list without asking	Message appears: "Pick an element from the list."	High / Medium

Bug_22: Element deletion delay. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Add symbols in the ELEMENT field 2. Press on the DELETE button	The deletion of an element takes several seconds	The element is being deleted right away	High / High

6.2. UI defects.

During the testing process several errors were found in spelling and also in different tabs location.

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

Bug_23: Elements HELP and EDIT must be reversed. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program	HELP is placed ahead of EDIT	EDIT should come before HELP	Low / Low

Bug_24: There is no SAVE AS function. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the FILE	There are no SAVE AS functionality	SAVE AS functionality is present	Medium / Low

Bug_25: CUT word is written with error. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the EDIT tab	The word is written CAT	The word should be CUT	Medium / Low

Bug_26: INDEX tab is beginning with lower case. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Press on the HELP tab	index tab is beginning with lower case	The word should begin with the Upper letter "I"	Medium / Low

Bug_27: DELETE FILTER is written with an error. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program	The word DELET on the DELET FILTER button is written with an error	The button should be like DELETE FILTER	Medium / Low

Bug_28: Product name error. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Press on the HELP - ABOUT	The product name is: Text Filter Teknics	The product name should be: Text Filter	Low / Low

Bug_29: Version of the program is wrong. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program 2. Click on the HELP - ABOUT	The version is: 0.0.001hb	The version should be like: 1.01	Low / Low

Bug_30: Error in spelling. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

Description	Actual result	Expected result	Severity / Priority
1. Open the program	"Apply filter to any substring of a	Should be like: ".... of an element".	Low / Low

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

	element" is written with an error		
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Bug_31: No info about the right holder company. Environment: Windows 7 Pro SP1. Version: 0.0.001hb.

<i>Description</i>	<i>Actual result</i>	<i>Expected result</i>	<i>Severity / Priority</i>
1. Open the program	No info about the	Name of the company	Low / Low
2. Click on the HELP - ABOUT	right holder company	should be written	

7. Test report.

During the test process of the TEXT FILTER application following things were tested and analyzed:

1. Requirements
2. Compatibility
3. Functionality
4. User interface

45 test cases passed successfully and 31 defects were found in the application. For better understanding you can through diagrams listed below.

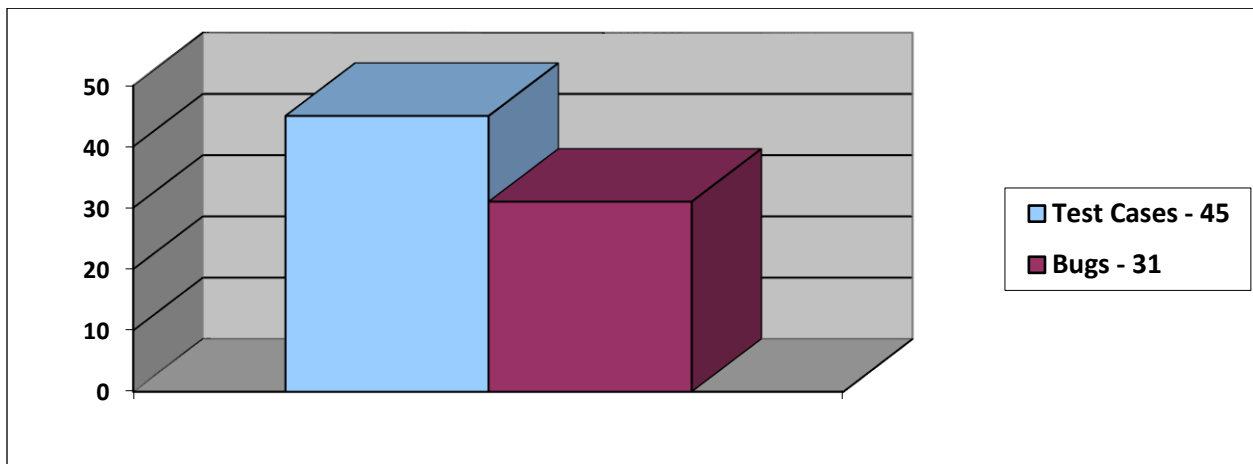


Diagram 1. Test cases and bugs.

Text Filter Application	Version: 1.0
Test Project	Date: 21.04.2018

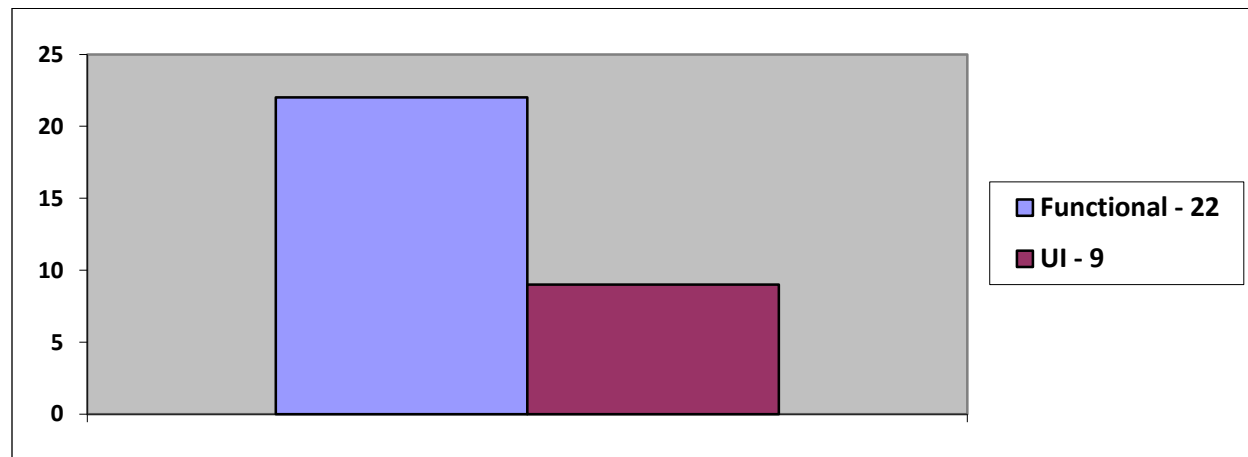


Diagram 2. Application defects.

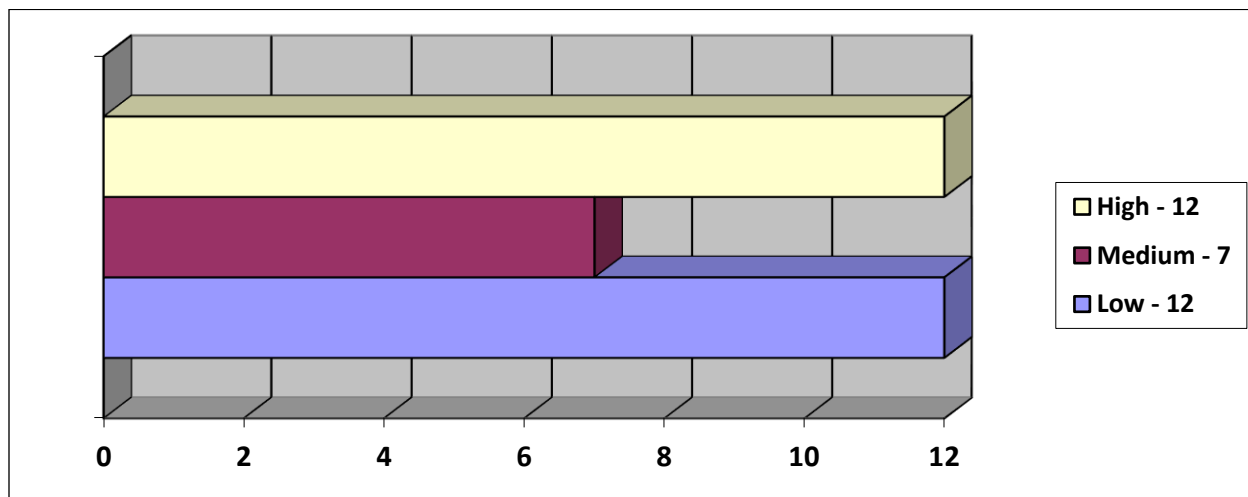


Diagram 3. Number of defects by severity.

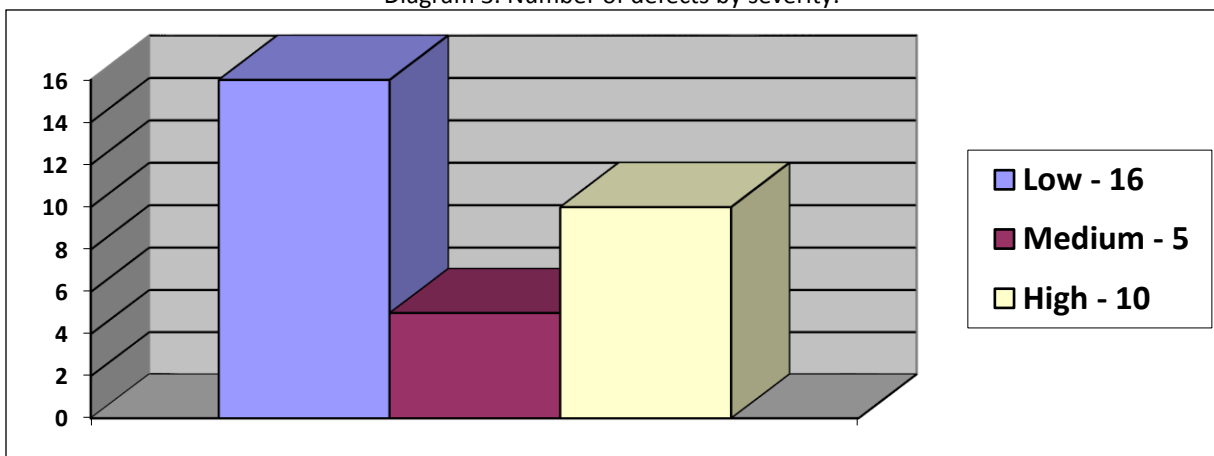


Diagram 4. Number of defects by priority.