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1 Introduction

A few years ago I was working on a project where we are working on add ins for Office365. These add ins must be tested when they where ready.

For this all the tests where created with Visual Studio with using Selenium. That was working fine. But there are some little issues to work with that:

- You need developer experience to use this
- It is a labor-intensive process to create test scenarios
- Visual Studio is needed to create and update the tests

With this solution everybody can create, updating and executing test scenarios for web sites.

So, hopefully the user likes this application.

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2 Configuration

In the configuration screen there are four options the user can change:

- The Border Color
- The Border Thickness
- The Duration (in milliseconds) the rectangle is visible
- How many Extra Checks are needed when an element is not found instantly

2.1 Border Color

With this option the user can set the color of the rectangle showed when a visible element is found in the web page.

It is possible to select one of the system colors. The user can choose from 140 different colors:

AliceBlue
AntiqueWhite
Aqua
Aquamarine
Azure
Beige
Bisque
Black
BlanchedAlmond
Blue
BlueViolet
Brown
BurlyWood
CadetBlue
Chartreuse
Chocolate
Coral
CornflowerBlue
Cornsilk
Crimson

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Cyan
DarkBlue
DarkCyan
DarkGoldenrod
DarkGray
DarkGreen
DarkKhaki
DarkMagenta
DarkOliveGreen
DarkOrange
DarkOrchid
DarkRed
DarkSalmon
DarkSeaGreen
DarkSlateBlue
DarkSlateGray
DarkTurquoise
DarkViolet
DeepPink
DeepSkyBlue
DimGray
DodgerBlue
Firebrick
FloralWhite
ForestGreen
Fuchsia
Gainsboro
GhostWhite
Gold
Goldenrod
Gray
Green
GreenYellow
Honeydew
HotPink
IndianRed
Indigo
Ivory
Khaki
Lavender
LavenderBlush
LawnGreen

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LemonChiffon
LightBlue
LightCoral
LightCyan
LightGoldenrodYellow
LightGreen
LightGray
LightPink
LightSalmon
LightSeaGreen
LightSkyBlue
LightSlateGray
LightSteelBlue
LightYellow
Lime
LimeGreen
Linen
Magenta
Maroon
MediumAquamarine
MediumBlue
MediumOrchid
MediumPurple
MediumSeaGreen
MediumSlateBlue
MediumSpringGreen
MediumTurquoise
MediumVioletRed
MidnightBlue
MintCream
MistyRose
Moccasin
NavajoWhite
Navy
OldLace
Olive
OliveDrab
Orange
OrangeRed
Orchid
PaleGoldenrod
PaleGreen

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PaleTurquoise
PaleVioletRed
PapayaWhip
PeachPuff
Peru
Pink
Plum
PowderBlue
Purple
Red
RosyBrown
RoyalBlue
SaddleBrown
Salmon
SandyBrown
SeaGreen
SeaShell
Sienna
Silver
SkyBlue
SlateBlue
SlateGray
Snow
SpringGreen
SteelBlue
Tan
Teal
Thistle
Tomato
Turquoise
Violet
Wheat
White
WhiteSmoke
Yellow
YellowGreen

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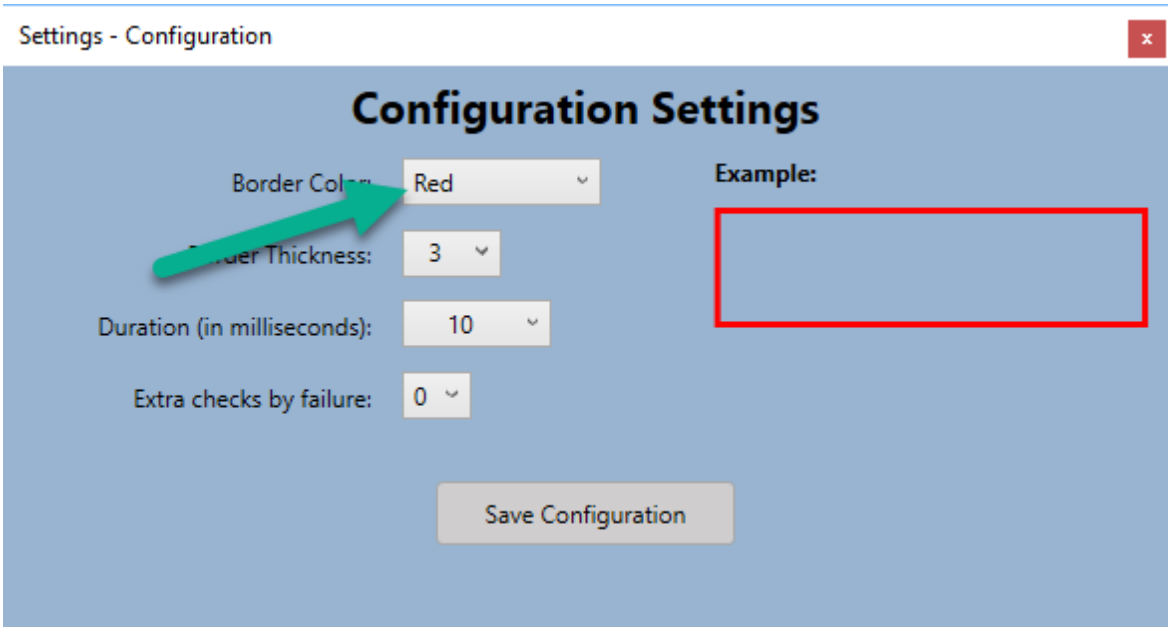

Steps:

- Select the color you want in the drop box.

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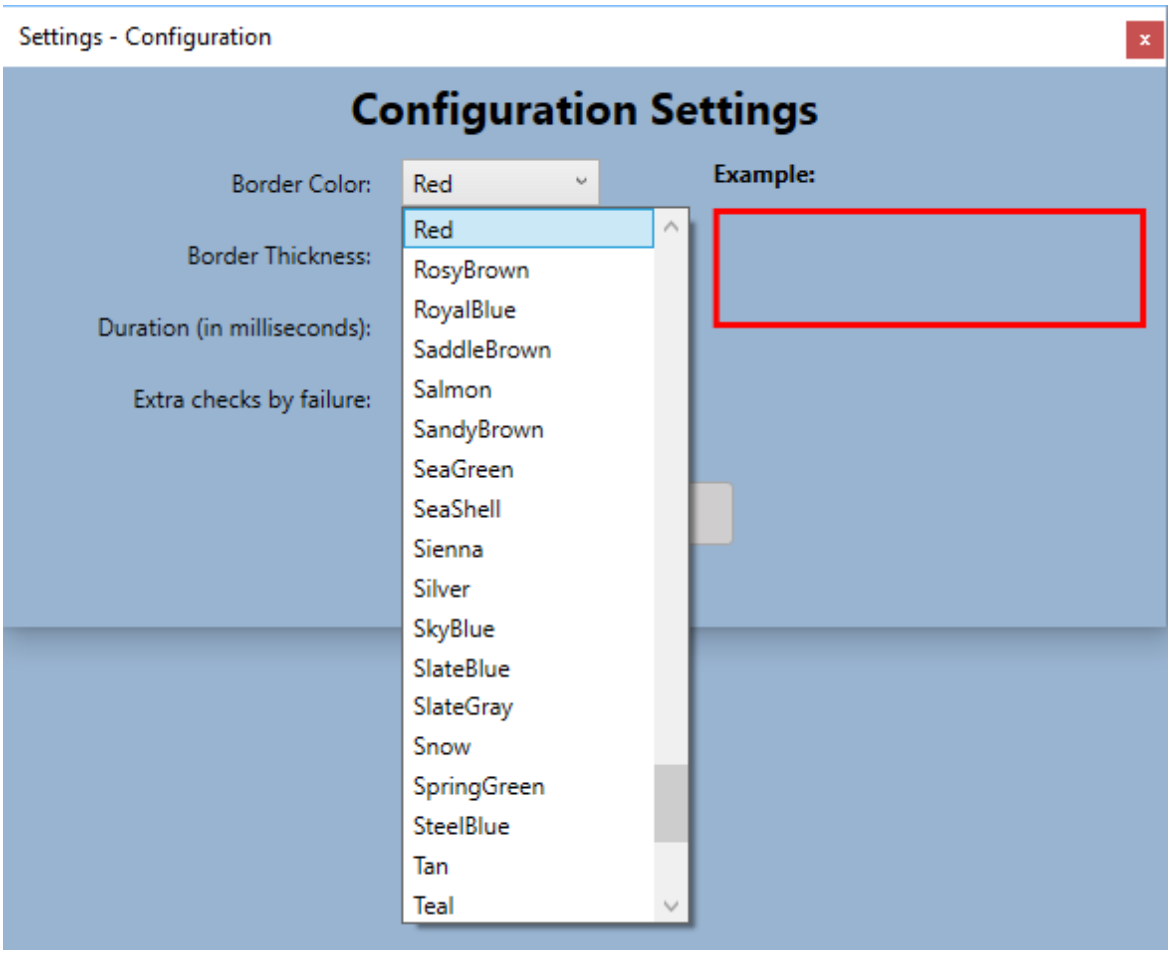

- Click the save button to confirm the changes.

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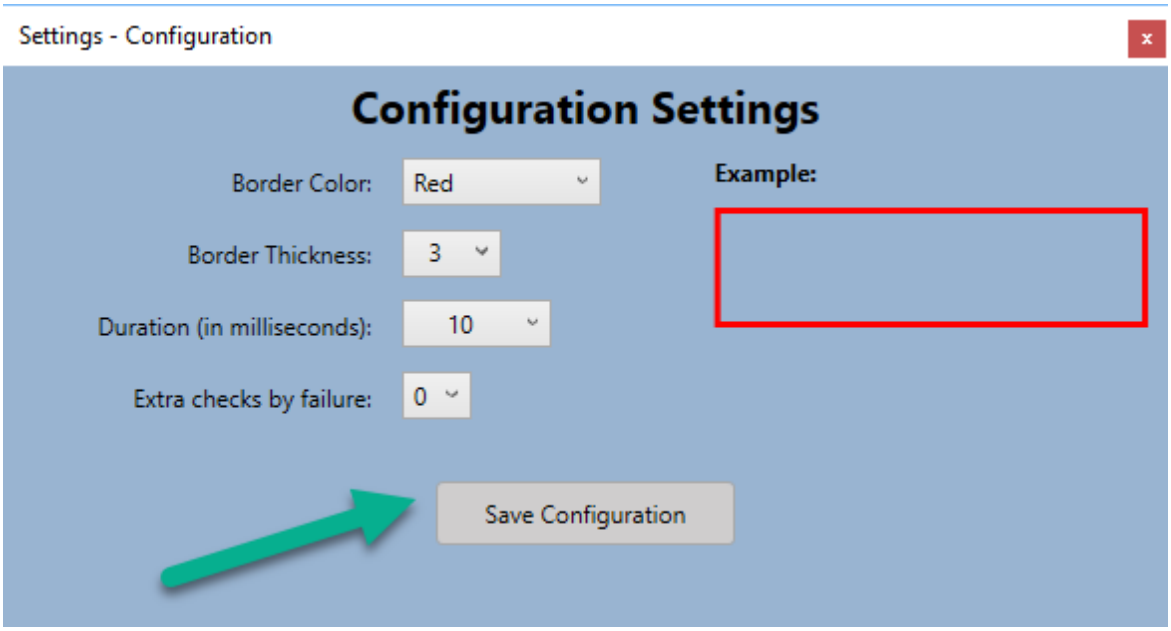
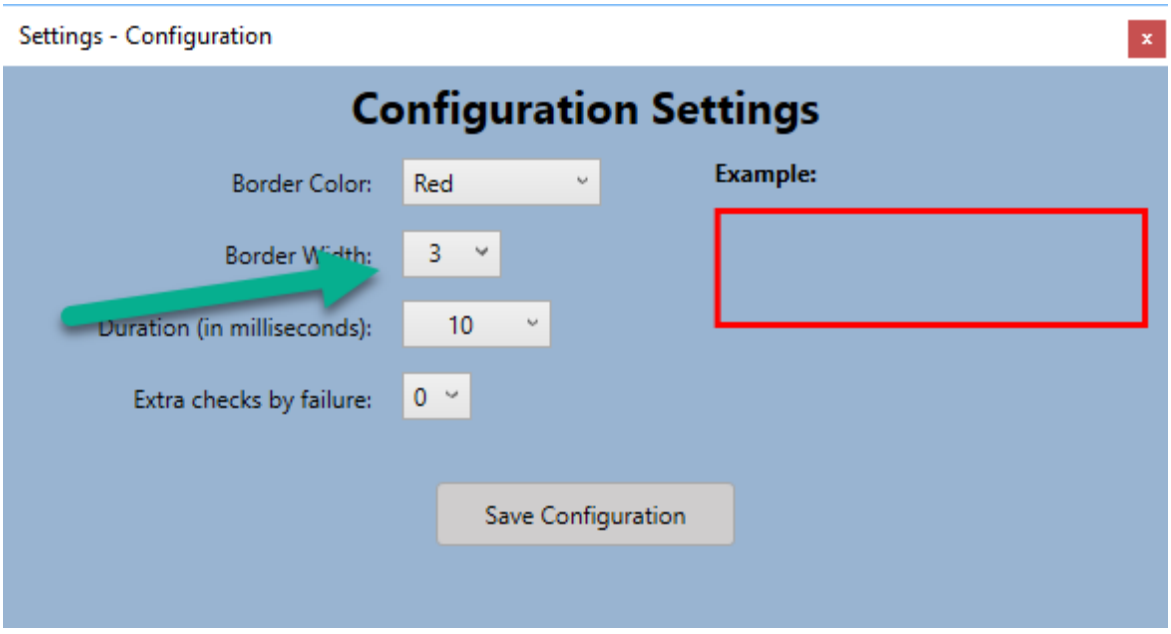


2.2 Border Thickness

It is not only possible to change the border color. Also it is possible to change the line thickness of the border.



The uses can select a value from 1 till 7 in the drop down box.

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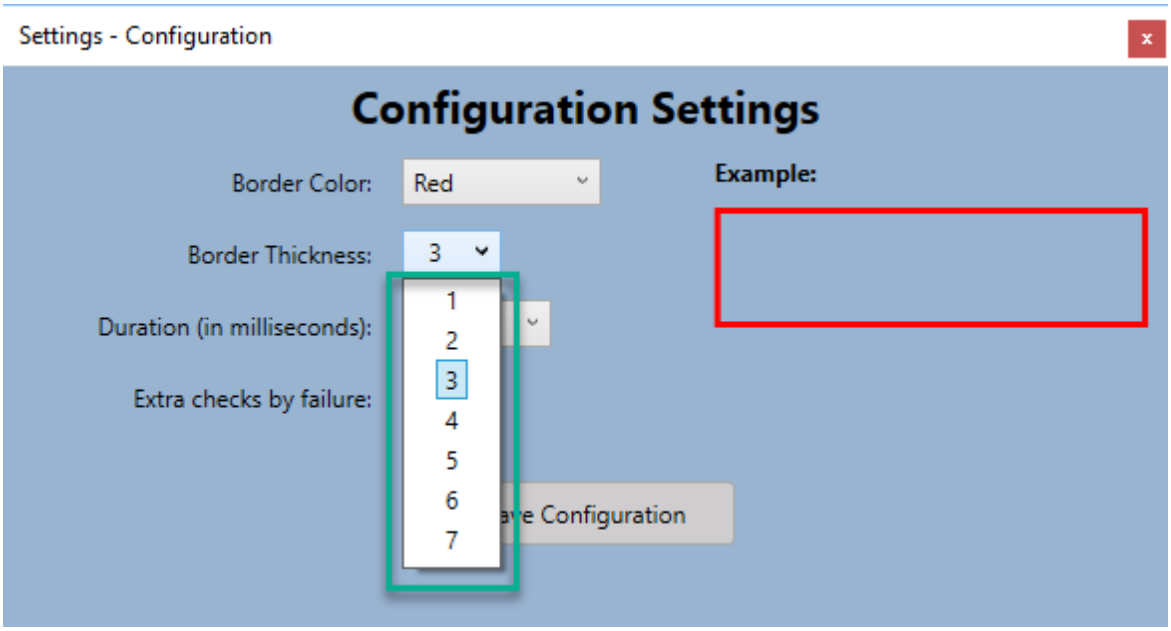
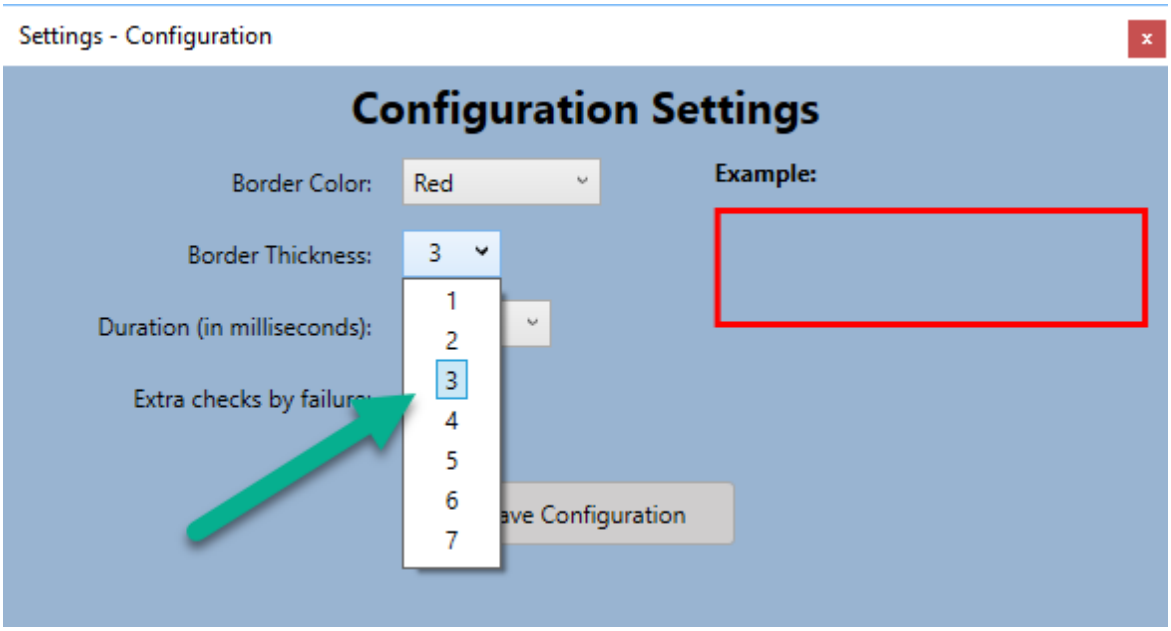


Steps:

- Select the thickness you want in the drop box.



- Click the save button to confirm the changes.

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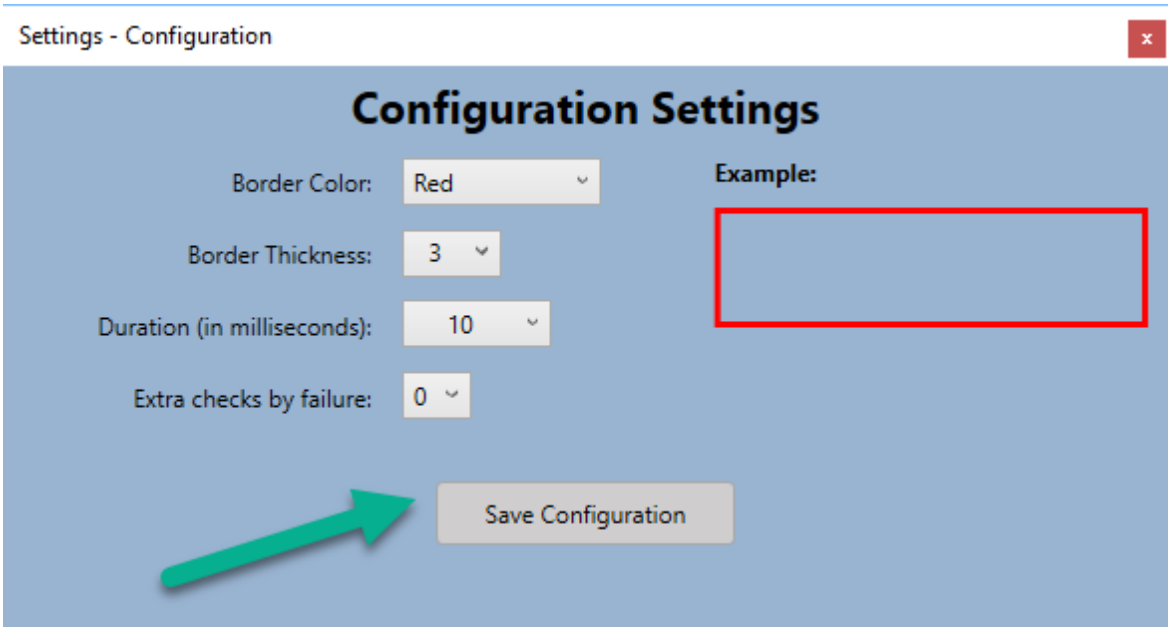

2.3 Duration

With the Duration option it will be possible to set the time the user wants to show the rectangle at the selected element.

Just as the Border Color option and the Border Thickness option, there is a drop down box to select one of the following values:

10
20
50
100
200
500
750
1000
1250
1500
2000
3000
5000
10000

Keep in mind that all these values are in milliseconds.

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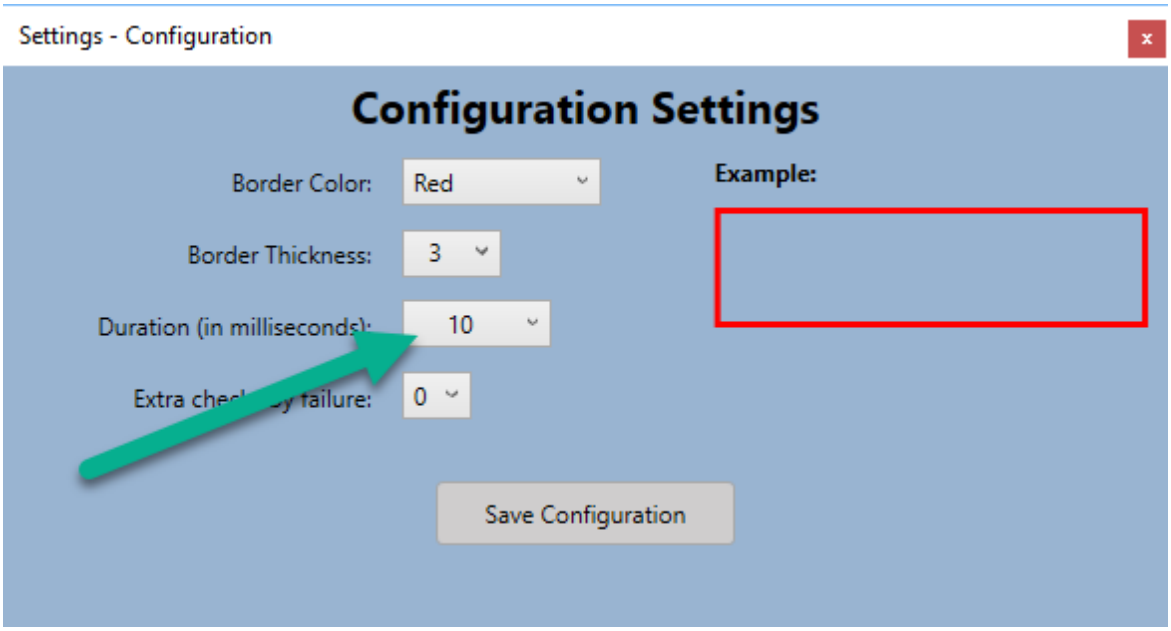

Steps:

- Select the Duration you want in the drop box.

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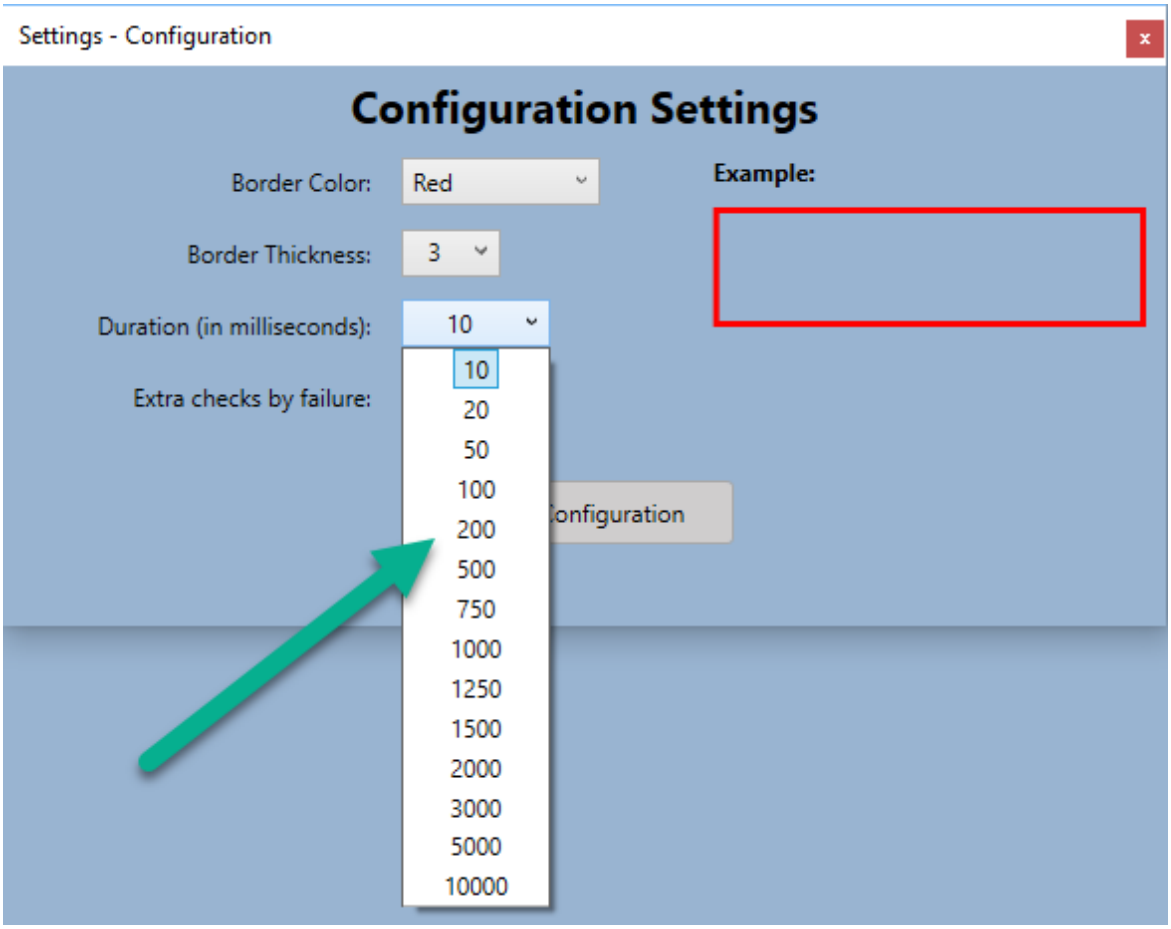
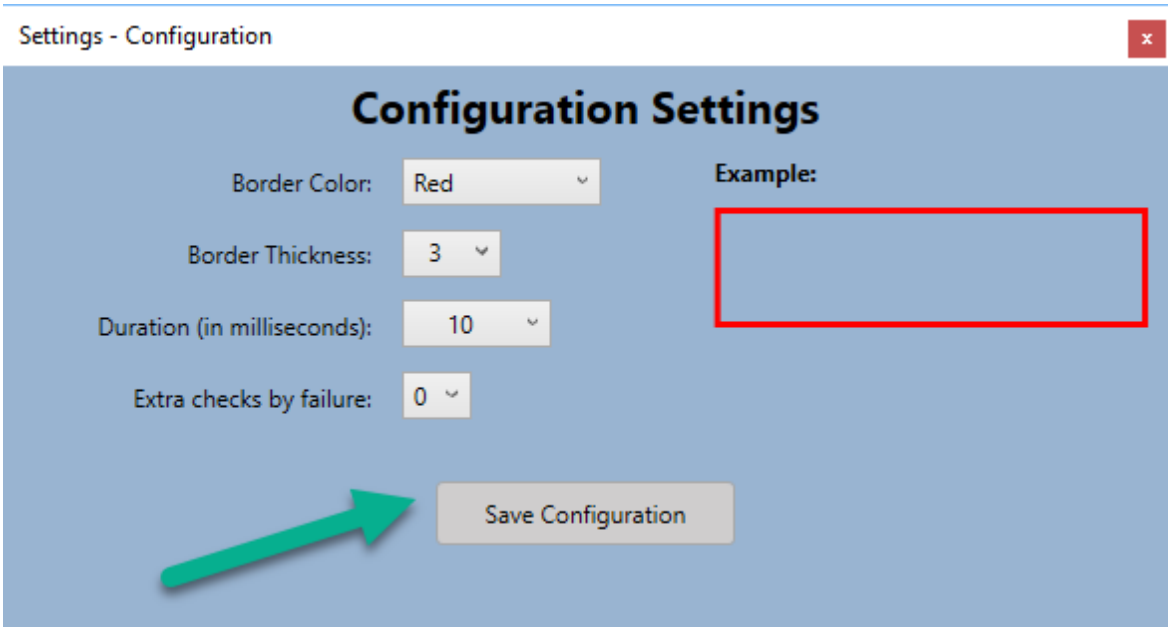


- Click the save button to confirm the changes.



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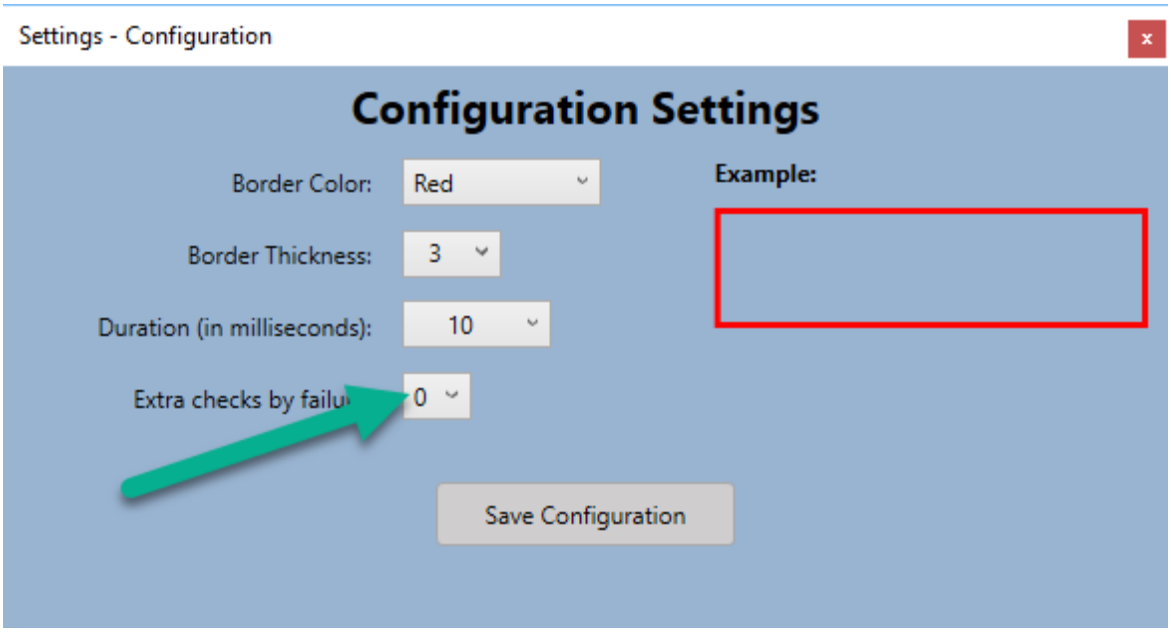
2.4 Extra Checks

If an element is not found directly, it will be possible that this element just on the site, but not directly loaded. After a while the element can than be added to the web page. In that case you can configure how many times the application has to check if the element is already loaded.



The user can select 0, 1, 2, 3, 4 or 5 times to check the missing element.

Steps:

- Select the Extra checks you want in the drop box.

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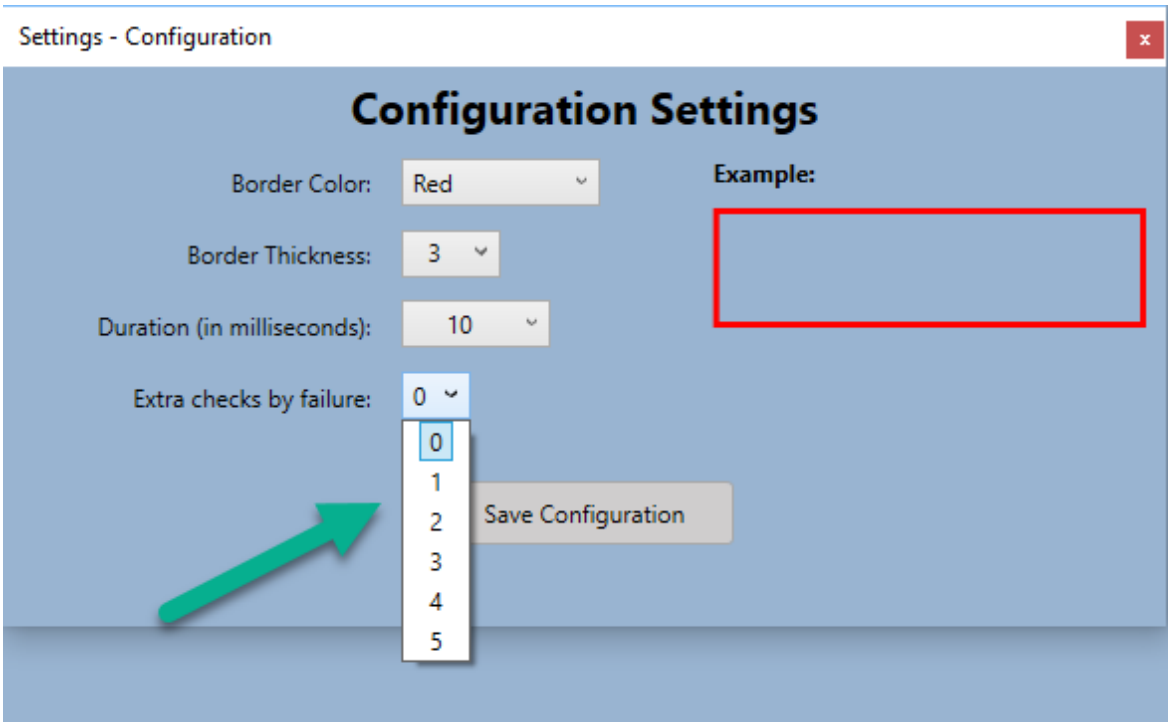
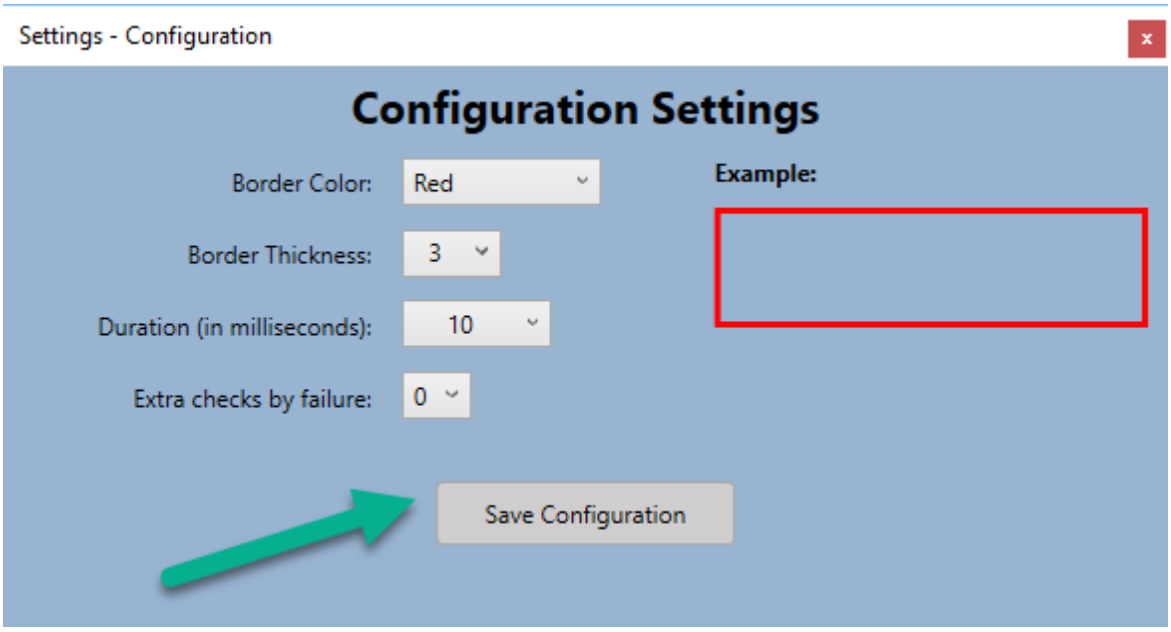


- Click the save button to confirm the changes.



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3 Extras

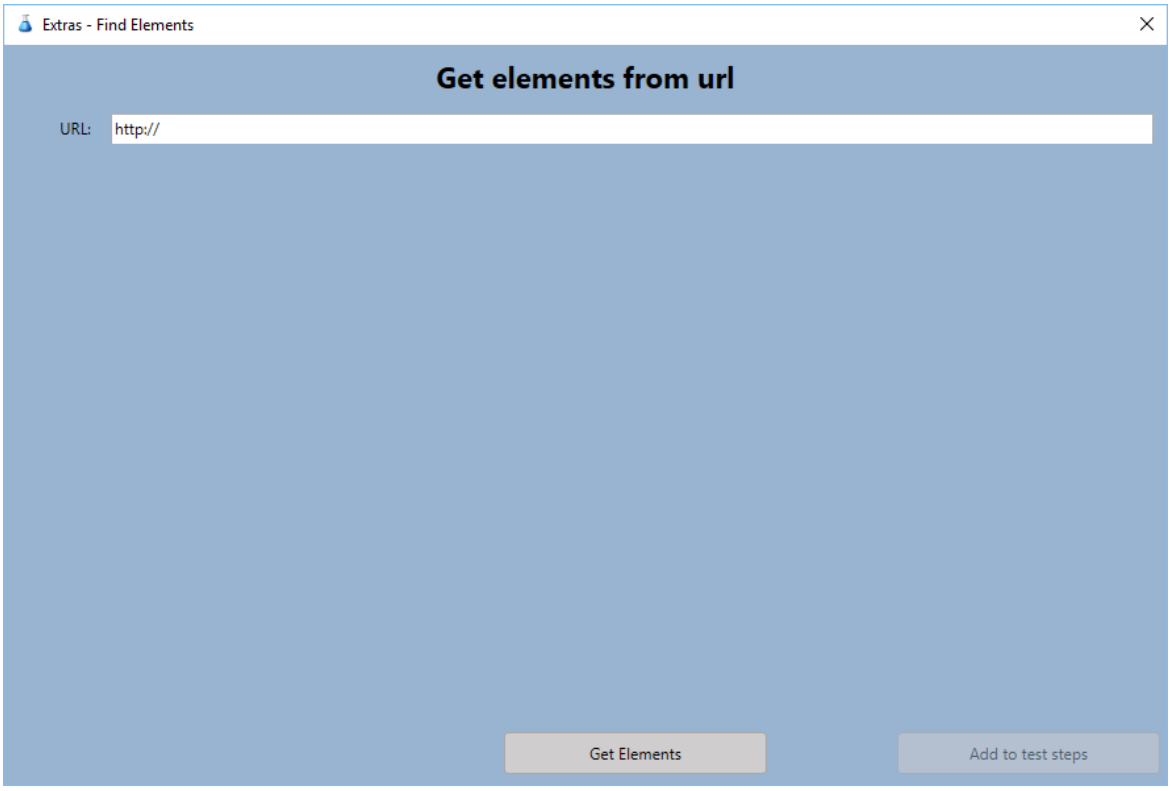
It is possible to add all the elements from a website by hand. See also Edit Test Steps. But it will be much easier to do this automatically.

The Extras Menu has 2 options. One for data that is not in the database and one for the data what already is in the database:

- Elements URL
- Elements Database

3.1 Elements URL

For getting the elements directly from the url select this option. You can do this by clicking on the menu option "Extras" and select Elements URL.



Steps:

- Fill in the URL you want to get the elements.

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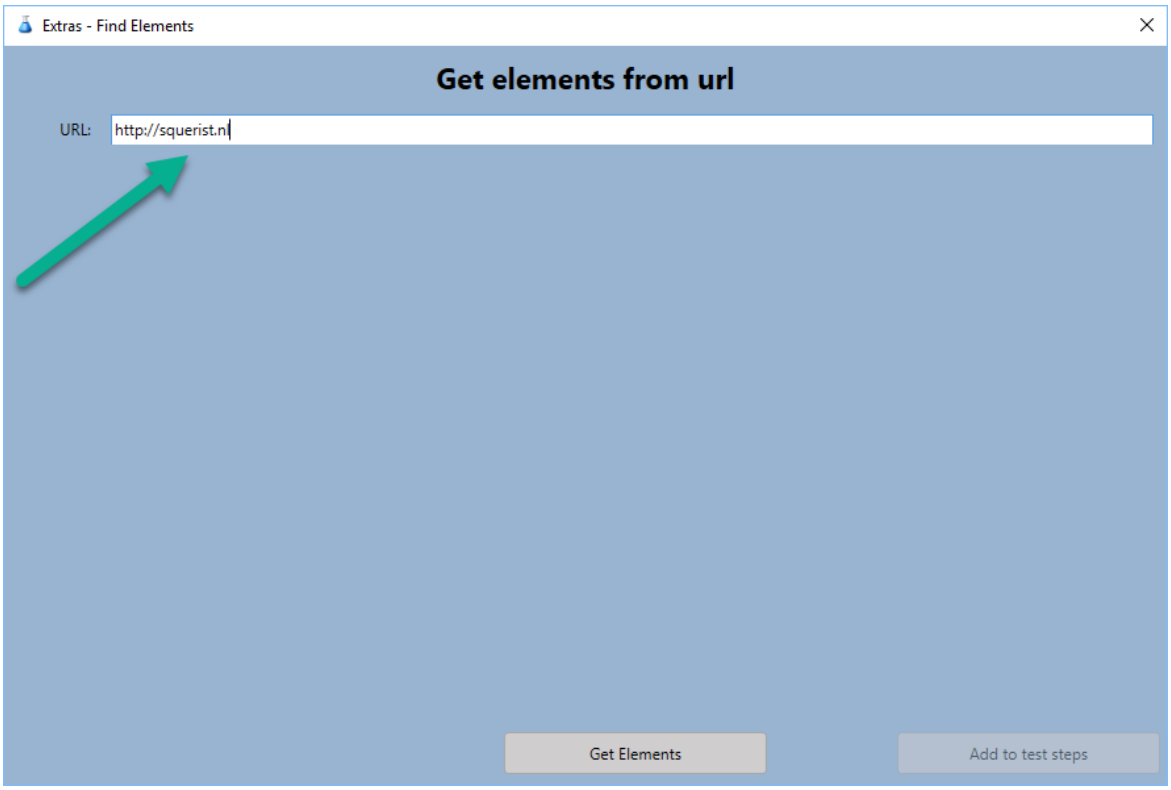
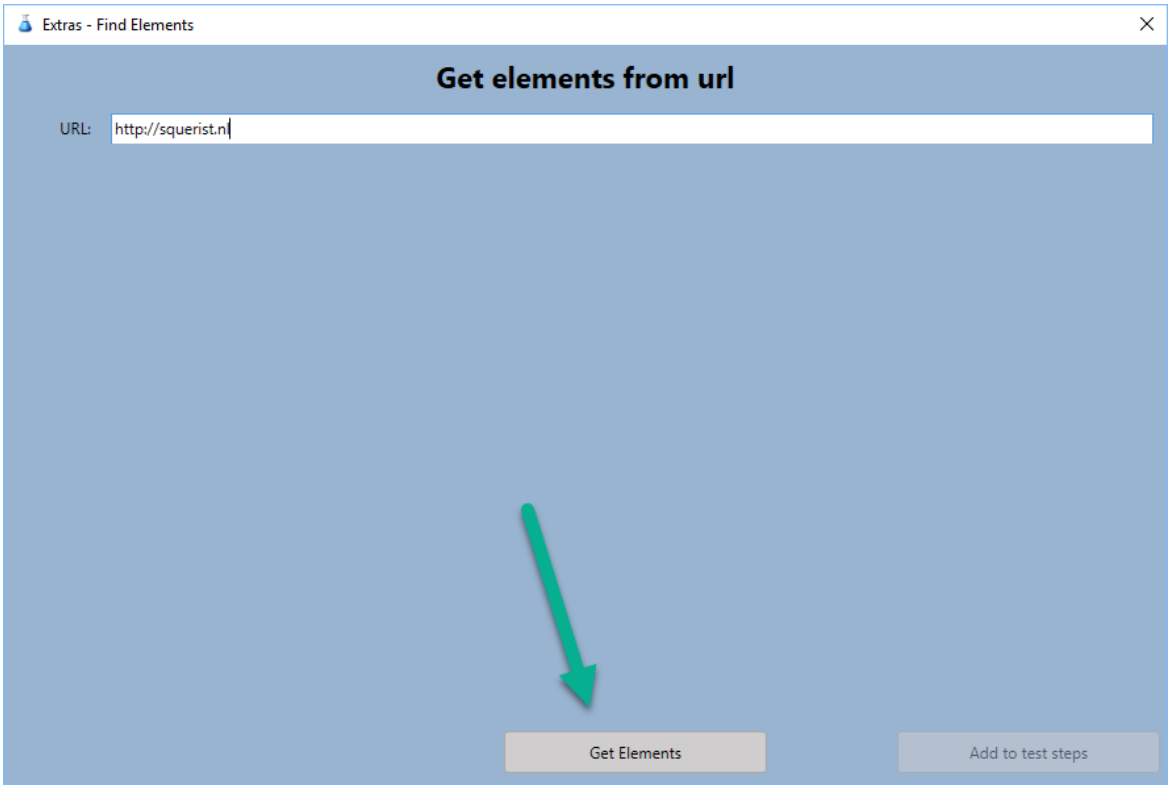


- Click the Get elements button.



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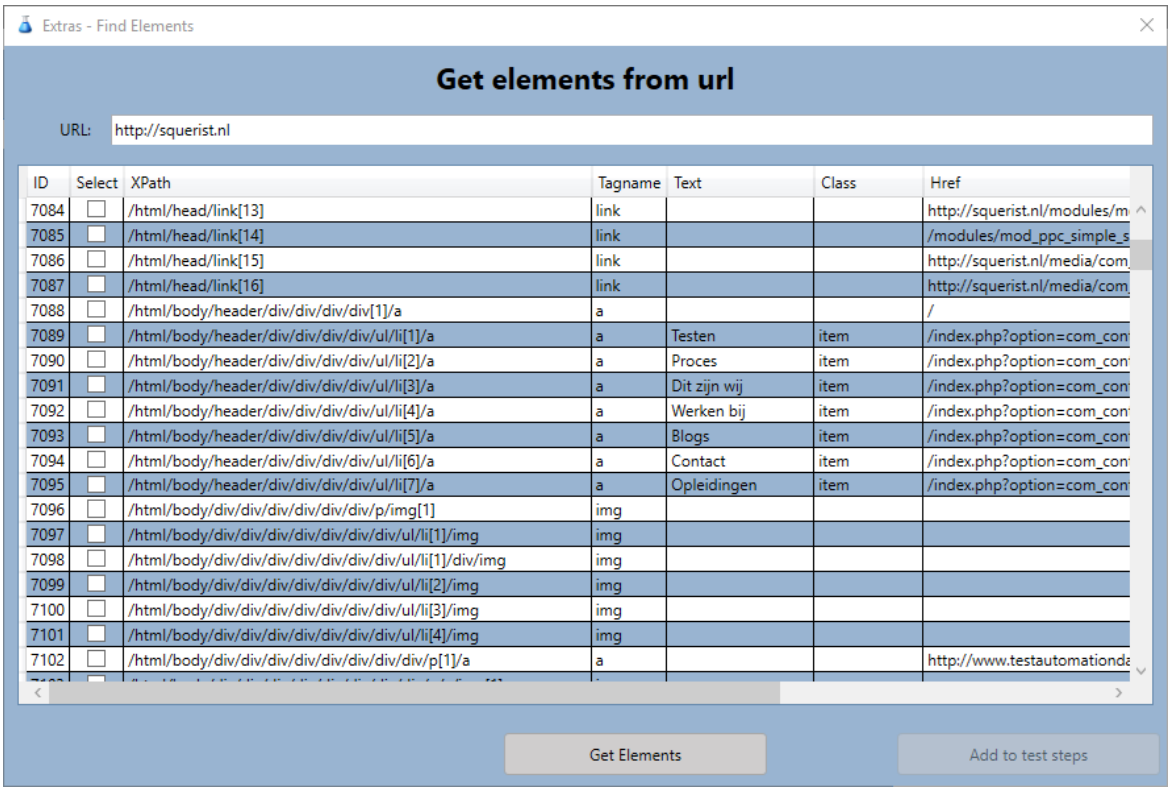
The application will now get all the elements from the URL and put the data to the database.



ID	Select	XPath	Tagname	Text	Class	Href
7084	☐	/html/head/link[13]	link			http://squerist.nl/modules/m
7085	☐	/html/head/link[14]	link			/modules/mod_ppc_simple_s
7086	☐	/html/head/link[15]	link			http://squerist.nl/media/com
7087	☐	/html/head/link[16]	link			http://squerist.nl/media/com
7088	☐	/html/body/header/div/div/div/div[1]/a	a			/
7089	☐	/html/body/header/div/div/div/div/ul/li[1]/a	a	Testen	item	/index.php?option=com_con
7090	☐	/html/body/header/div/div/div/div/ul/li[2]/a	a	Proces	item	/index.php?option=com_con
7091	☐	/html/body/header/div/div/div/div/ul/li[3]/a	a	Dit zijn wij	item	/index.php?option=com_con
7092	☐	/html/body/header/div/div/div/div/ul/li[4]/a	a	Werken bij	item	/index.php?option=com_con
7093	☐	/html/body/header/div/div/div/div/ul/li[5]/a	a	Blogs	item	/index.php?option=com_con
7094	☐	/html/body/header/div/div/div/div/ul/li[6]/a	a	Contact	item	/index.php?option=com_con
7095	☐	/html/body/header/div/div/div/div/ul/li[7]/a	a	Opleidingen	item	/index.php?option=com_con
7096	☐	/html/body/div/div/div/div/div/p/img[1]	img			
7097	☐	/html/body/div/div/div/div/div/div/ul/li[1]/img	img			
7098	☐	/html/body/div/div/div/div/div/div/div/ul/li[1]/div/img	img			
7099	☐	/html/body/div/div/div/div/div/div/div/ul/li[2]/img	img			
7100	☐	/html/body/div/div/div/div/div/div/div/ul/li[3]/img	img			
7101	☐	/html/body/div/div/div/div/div/div/div/ul/li[4]/img	img			
7102	☐	/html/body/div/div/div/div/div/div/div/p[1]/a	a			http://www.testautomationda

- Click in the Select column on the elements you want to use in the test scenario

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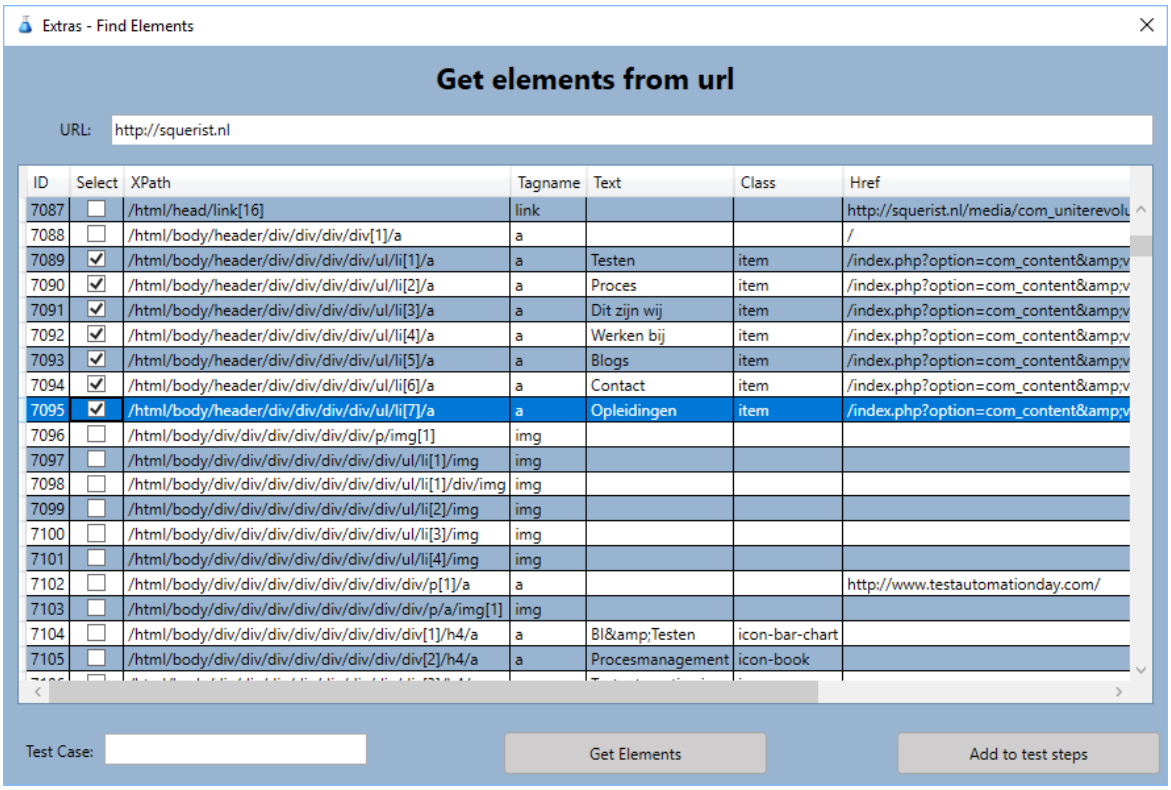
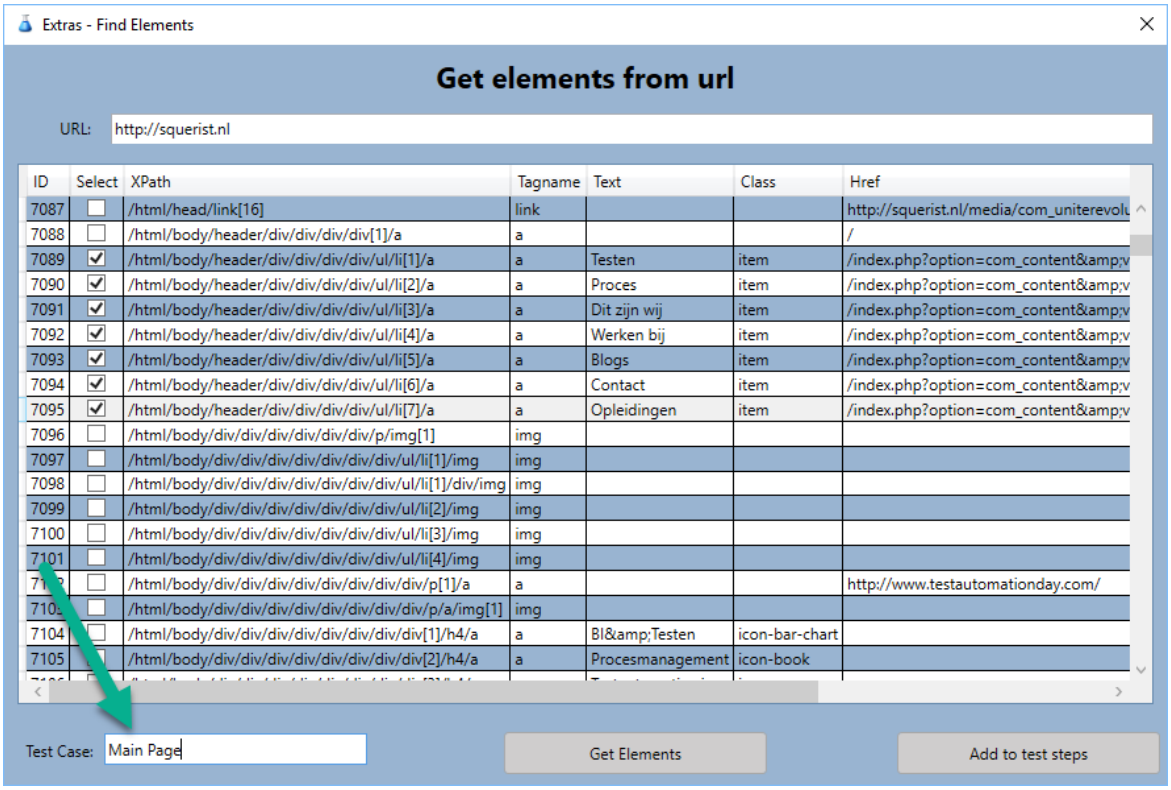


ID	Select	XPath	Tagname	Text	Class	Href
7087	☐	/html/head/link[16]	link			http://squerist.nl/media/com_uniterevolu
7088	☐	/html/body/header/div/div/div/div[1]/a	a			/
7089	☑	/html/body/header/div/div/div/div/ul/li[1]/a	a	Testen	item	/index.php?option=com_content&v
7090	☑	/html/body/header/div/div/div/div/ul/li[2]/a	a	Proces	item	/index.php?option=com_content&v
7091	☑	/html/body/header/div/div/div/div/ul/li[3]/a	a	Dit zijn wij	item	/index.php?option=com_content&v
7092	☑	/html/body/header/div/div/div/div/ul/li[4]/a	a	Werken bij	item	/index.php?option=com_content&v
7093	☑	/html/body/header/div/div/div/div/ul/li[5]/a	a	Blogs	item	/index.php?option=com_content&v
7094	☑	/html/body/header/div/div/div/div/ul/li[6]/a	a	Contact	item	/index.php?option=com_content&v
7095	☑	/html/body/header/div/div/div/div/ul/li[7]/a	a	Opleidingen	item	/index.php?option=com_content&v
7096	☐	/html/body/div/div/div/div/div/div/p/img[1]	img			
7097	☐	/html/body/div/div/div/div/div/div/div/ul/li[1]/img	img			
7098	☐	/html/body/div/div/div/div/div/div/div/ul/li[1]/div/img	img			
7099	☐	/html/body/div/div/div/div/div/div/div/ul/li[2]/img	img			
7100	☐	/html/body/div/div/div/div/div/div/div/ul/li[3]/img	img			
7101	☐	/html/body/div/div/div/div/div/div/div/ul/li[4]/img	img			
7102	☐	/html/body/div/div/div/div/div/div/div/div/p[1]/a	a			http://www.testautomationday.com/
7103	☐	/html/body/div/div/div/div/div/div/div/div/div/p/a/img[1]	img			
7104	☐	/html/body/div/div/div/div/div/div/div/div/div[1]/h4/a	a	BI&Testen	icon-bar-chart	
7105	☐	/html/body/div/div/div/div/div/div/div/div/div[2]/h4/a	a	Procesmanagement	icon-book	

- Fill in the name of the Test Case in the Test Case textbox.



ID	Select	XPath	Tagname	Text	Class	Href
7087	☐	/html/head/link[16]	link			http://squerist.nl/media/com_uniterevolu
7088	☐	/html/body/header/div/div/div/div[1]/a	a			/
7089	☑	/html/body/header/div/div/div/div/ul/li[1]/a	a	Testen	item	/index.php?option=com_content&v
7090	☑	/html/body/header/div/div/div/div/ul/li[2]/a	a	Proces	item	/index.php?option=com_content&v
7091	☑	/html/body/header/div/div/div/div/ul/li[3]/a	a	Dit zijn wij	item	/index.php?option=com_content&v
7092	☑	/html/body/header/div/div/div/div/ul/li[4]/a	a	Werken bij	item	/index.php?option=com_content&v
7093	☑	/html/body/header/div/div/div/div/ul/li[5]/a	a	Blogs	item	/index.php?option=com_content&v
7094	☑	/html/body/header/div/div/div/div/ul/li[6]/a	a	Contact	item	/index.php?option=com_content&v
7095	☑	/html/body/header/div/div/div/div/ul/li[7]/a	a	Opleidingen	item	/index.php?option=com_content&v
7096	☐	/html/body/div/div/div/div/div/div/p/img[1]	img			
7097	☐	/html/body/div/div/div/div/div/div/div/ul/li[1]/img	img			
7098	☐	/html/body/div/div/div/div/div/div/div/ul/li[1]/div/img	img			
7099	☐	/html/body/div/div/div/div/div/div/div/ul/li[2]/img	img			
7100	☐	/html/body/div/div/div/div/div/div/div/ul/li[3]/img	img			
7101	☐	/html/body/div/div/div/div/div/div/div/ul/li[4]/img	img			
71	☐	/html/body/div/div/div/div/div/div/div/div/p[1]/a	a			http://www.testautomationday.com/
710	☐	/html/body/div/div/div/div/div/div/div/div/div/p/a/img[1]	img			
7104	☐	/html/body/div/div/div/div/div/div/div/div/div[1]/h4/a	a	BI&Testen	icon-bar-chart	
7105	☐	/html/body/div/div/div/div/div/div/div/div/div[2]/h4/a	a	Procesmanagement	icon-book	

- Click the Add to test steps button

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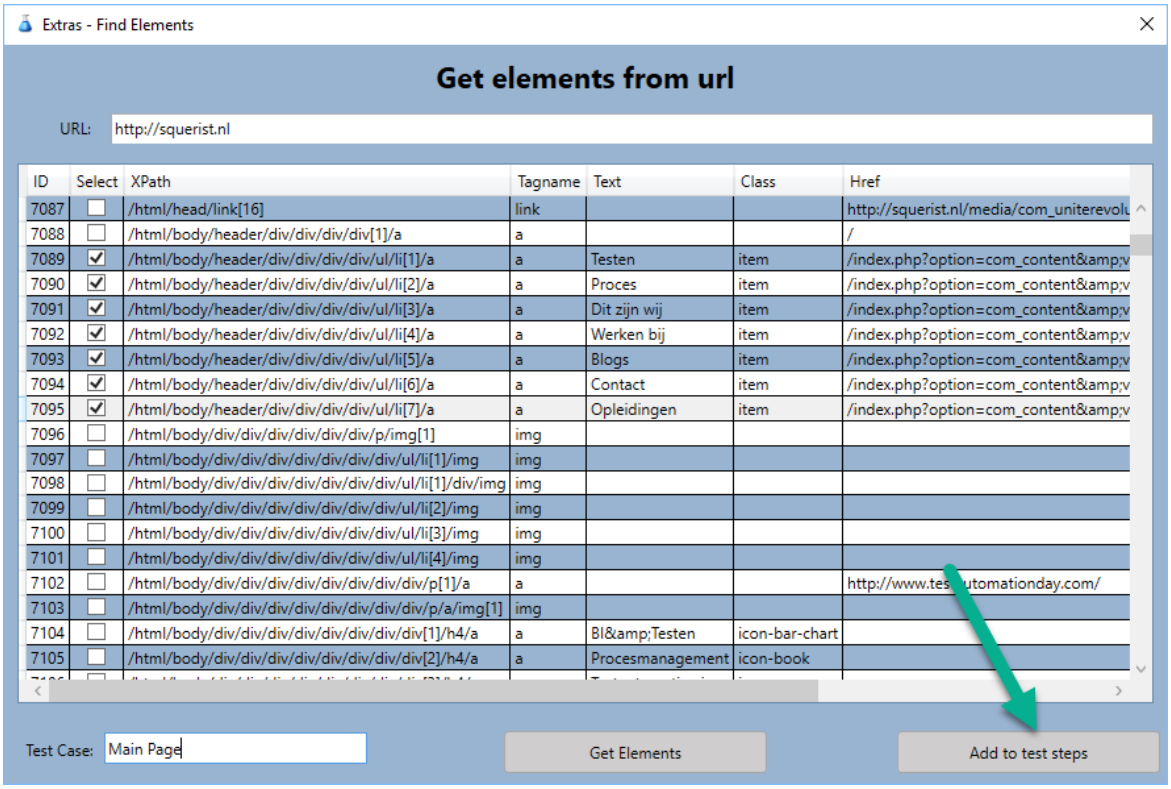
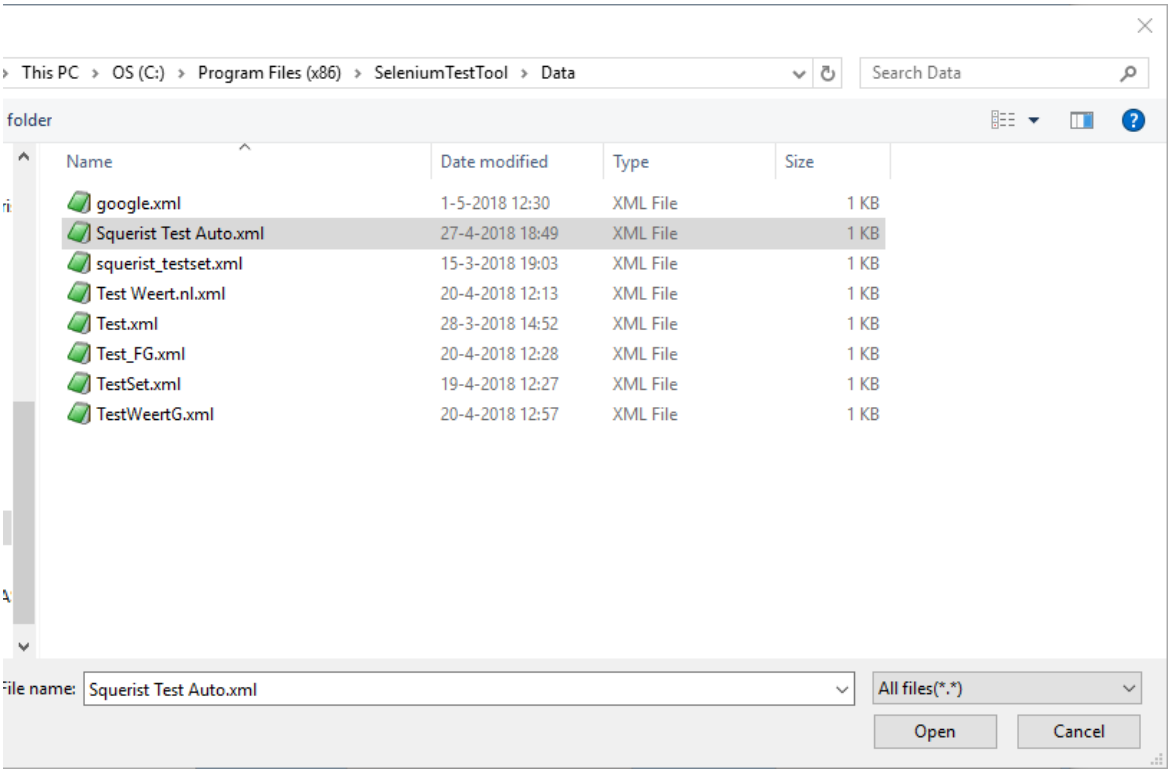


- Select the test scenario you want to add the elements to and click the Open button.



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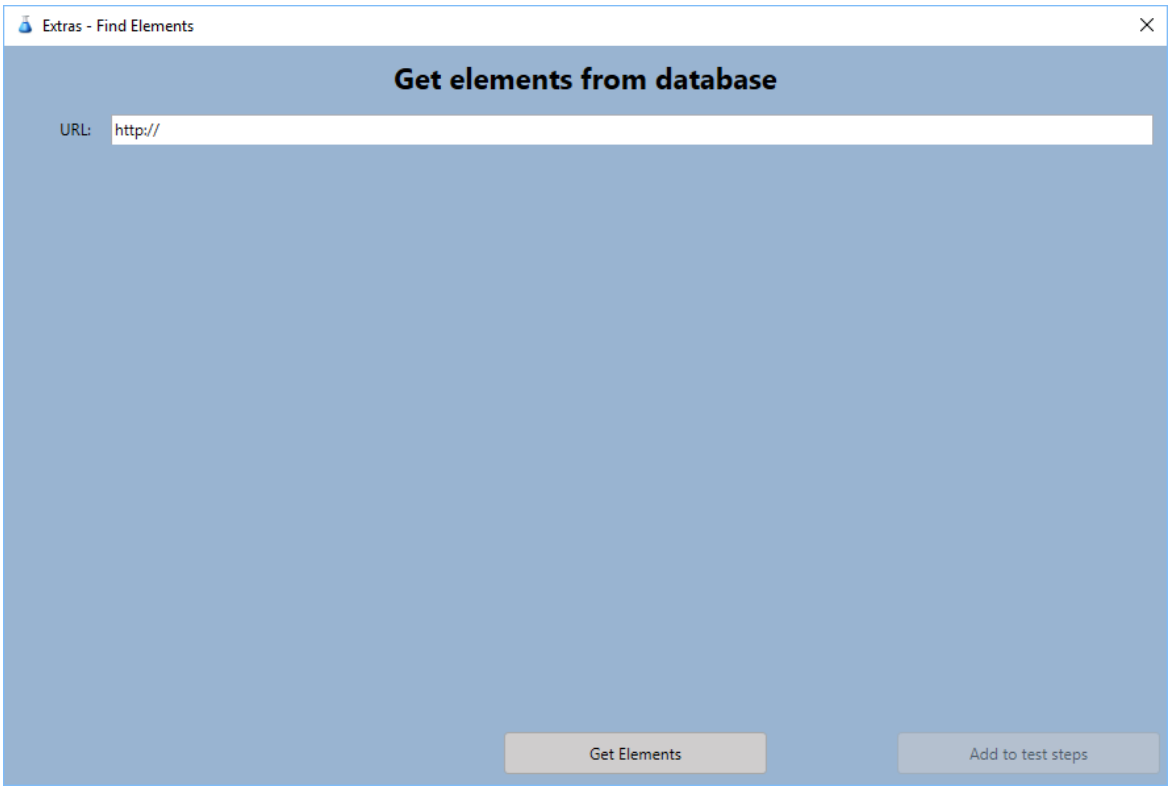
All the selected element are now added to the selected test scenario. You can check this by using the Edit Test Steps option.

3.2 Elements Database

For getting the elements from the database select this option. You can do this by clicking on the menu option "Extras" and select Elements Database.



Steps:

- Fill in the URL you want to get the elements.

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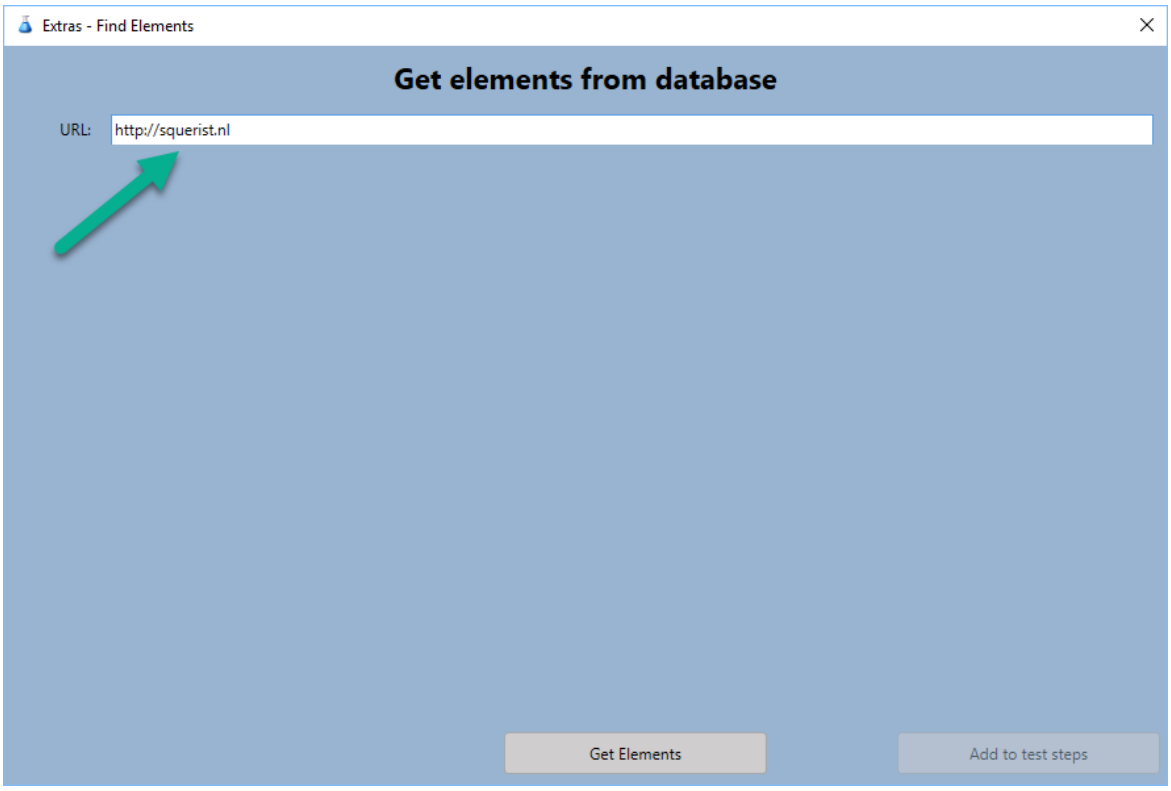
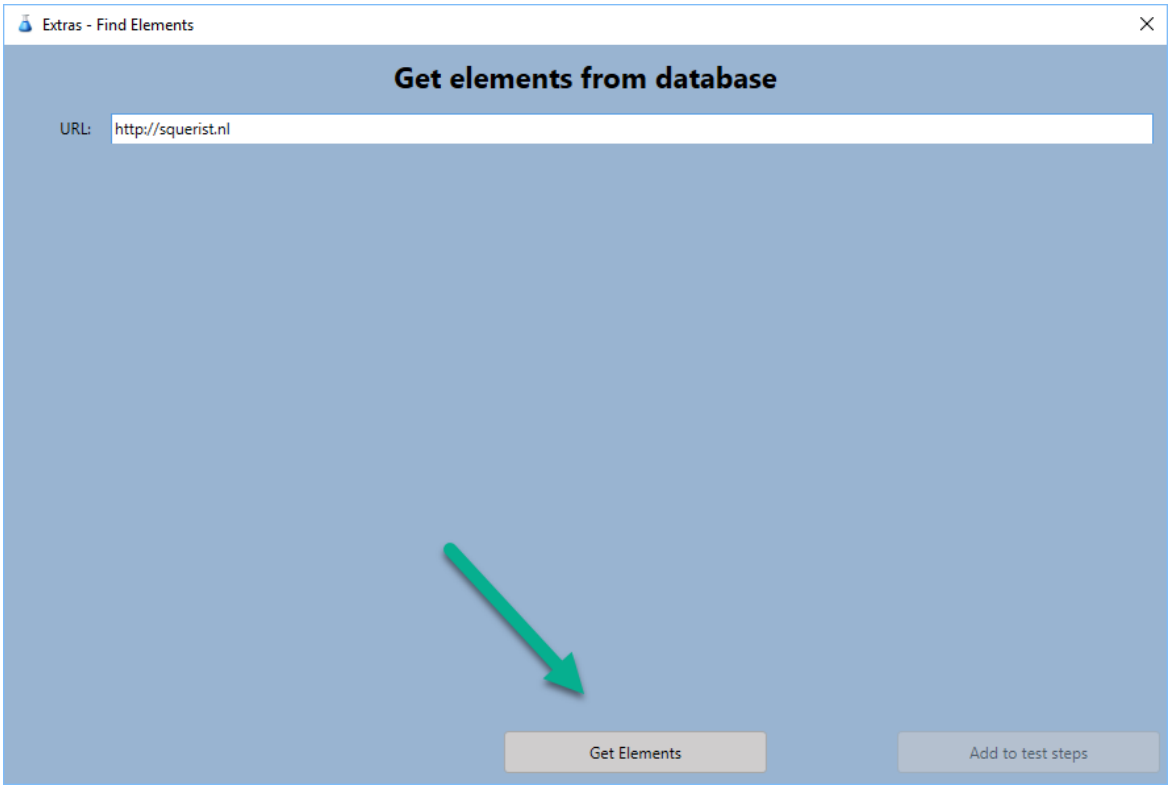


- Click the Get elements button.



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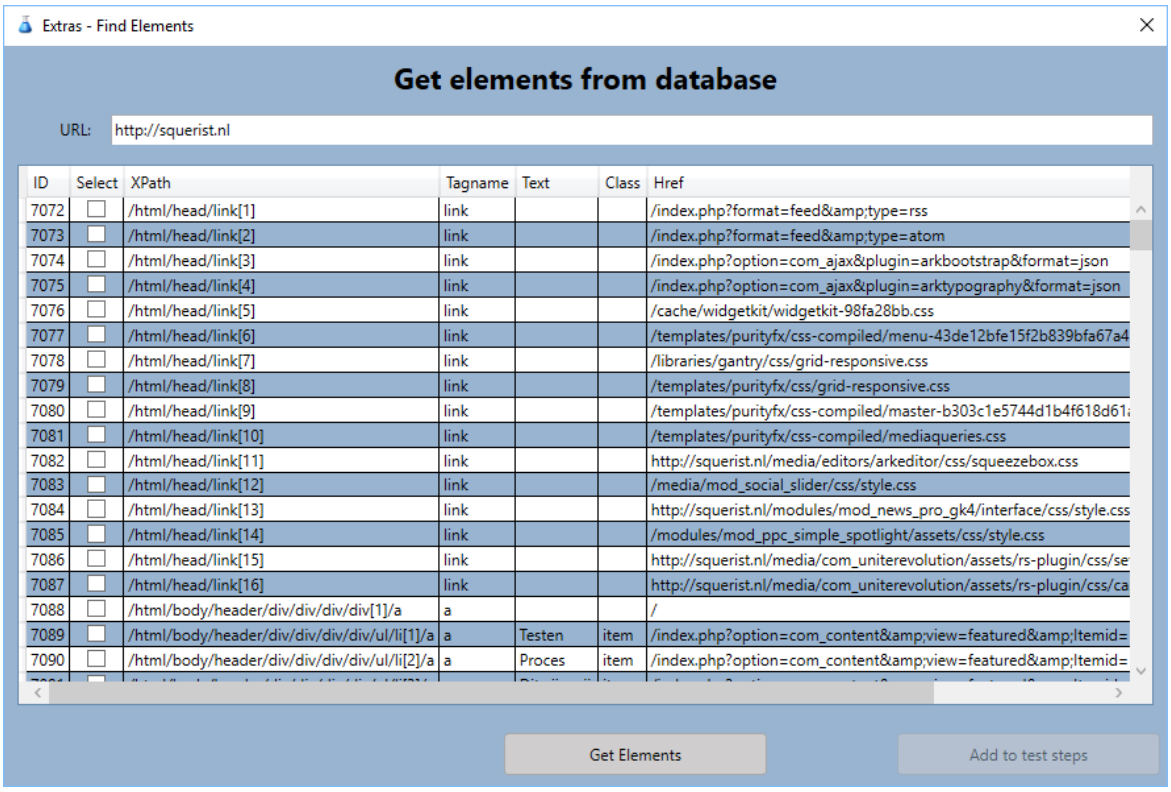
The application will now get all the elements from the URL and put the data to the database.



ID	Select	XPath	Tagname	Text	Class	Href
7072	☐	/html/head/link[1]	link			/index.php?format=feed&type=rss
7073	☐	/html/head/link[2]	link			/index.php?format=feed&type=atom
7074	☐	/html/head/link[3]	link			/index.php?option=com_ajax&plugin=arkbootstrap&format=json
7075	☐	/html/head/link[4]	link			/index.php?option=com_ajax&plugin=arktypography&format=json
7076	☐	/html/head/link[5]	link			/cache/widgetkit/widgetkit-98fa28bb.css
7077	☐	/html/head/link[6]	link			/templates/purityfx/css-compiled/menu-43de12bfe15f2b839bfa67a4
7078	☐	/html/head/link[7]	link			/libraries/gantry/css/grid-responsive.css
7079	☐	/html/head/link[8]	link			/templates/purityfx/css/grid-responsive.css
7080	☐	/html/head/link[9]	link			/templates/purityfx/css-compiled/master-b303c1e5744d1b4f618d61
7081	☐	/html/head/link[10]	link			/templates/purityfx/css-compiled/mediaqueries.css
7082	☐	/html/head/link[11]	link			http://squerist.nl/media/editors/arkeditor/css/squeezebox.css
7083	☐	/html/head/link[12]	link			/media/mod_social_slider/css/style.css
7084	☐	/html/head/link[13]	link			http://squerist.nl/modules/mod_news_pro_gk4/interface/css/style.css
7085	☐	/html/head/link[14]	link			/modules/mod_ppc_simple_spotlight/assets/css/style.css
7086	☐	/html/head/link[15]	link			http://squerist.nl/media/com_uniterevolution/assets/rs-plugin/css/se
7087	☐	/html/head/link[16]	link			http://squerist.nl/media/com_uniterevolution/assets/rs-plugin/css/ca
7088	☐	/html/body/header/div/div/div/div[1]/a	a			/
7089	☐	/html/body/header/div/div/div/div/ul/li[1]/a	a	Testen	item	/index.php?option=com_content&view=featured&Itemid=
7090	☐	/html/body/header/div/div/div/div/ul/li[2]/a	a	Proces	item	/index.php?option=com_content&view=featured&Itemid=

- Click in the Select column on the elements you want to use in the test scenario

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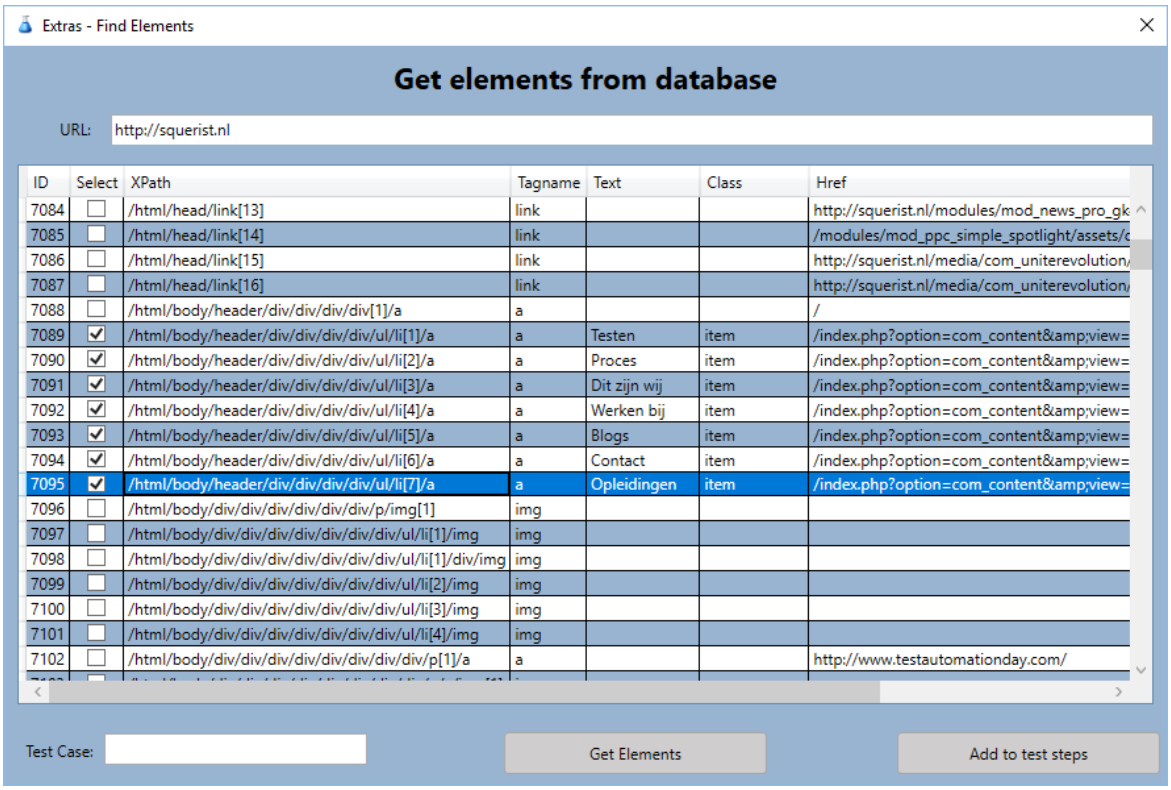
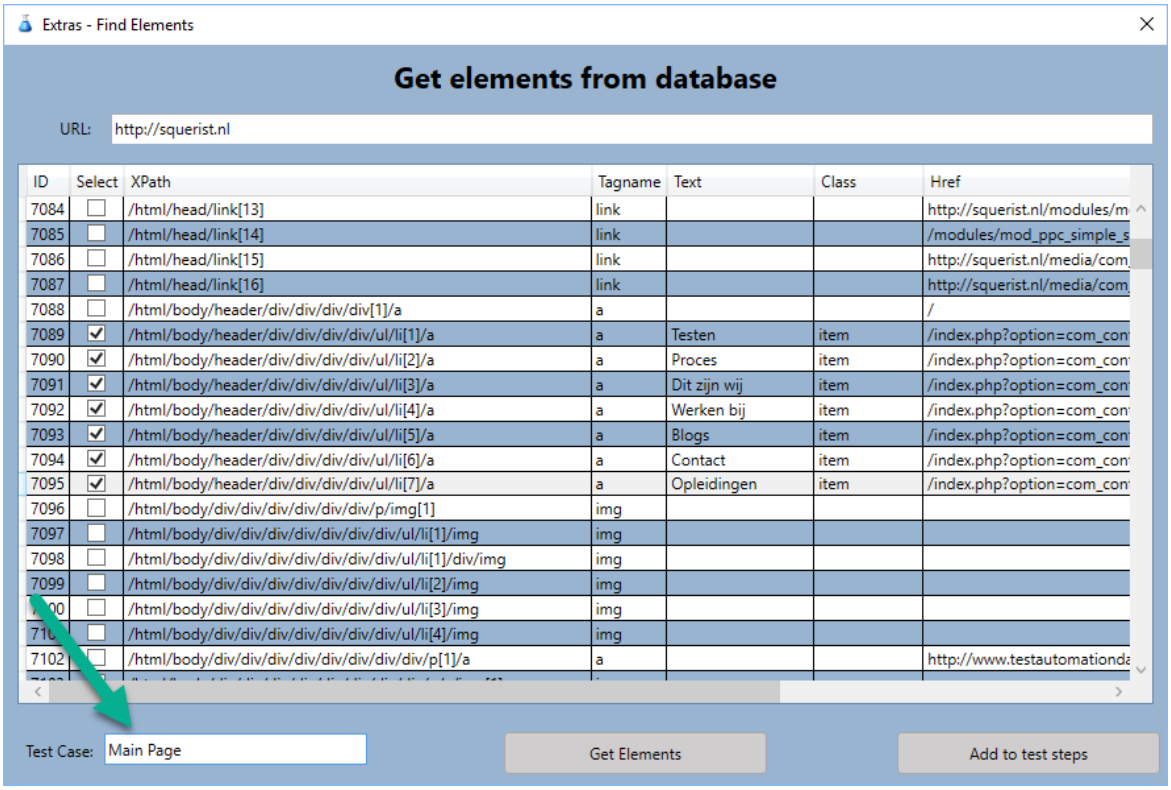


- Fill in the name of the Test Case in the Test Case textbox.



- Click the Add to test steps button

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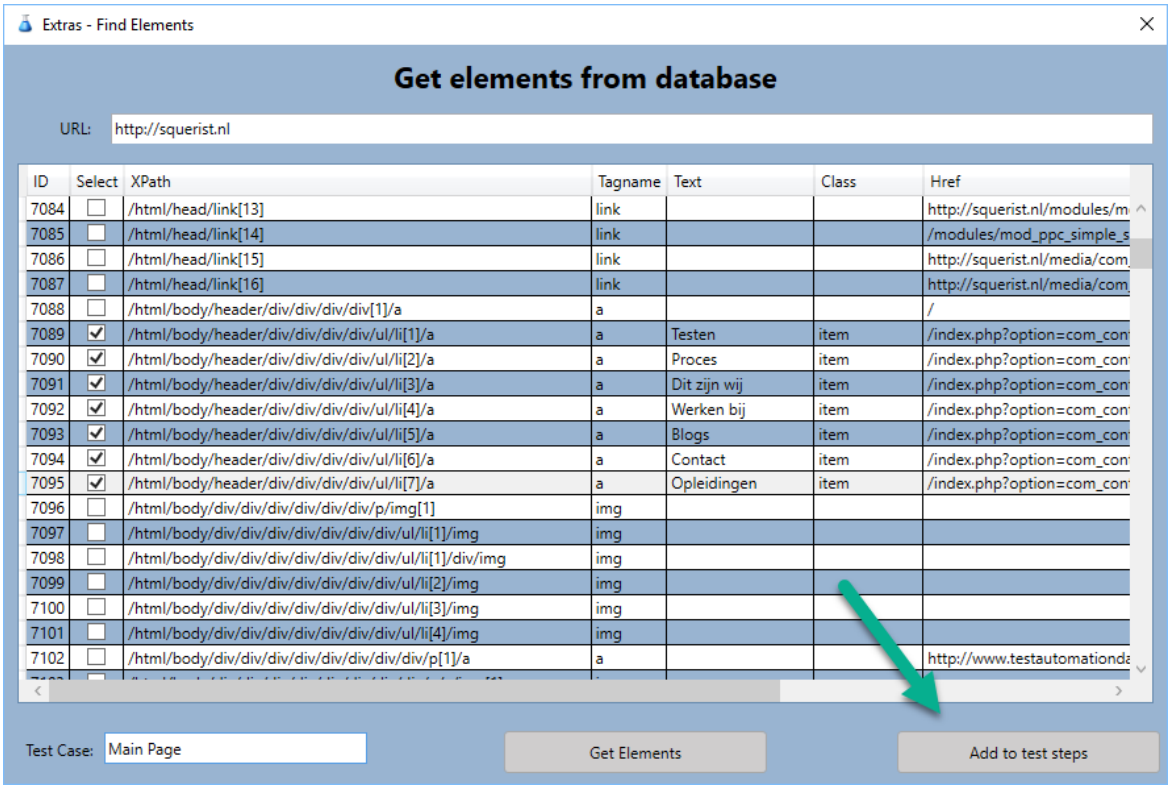
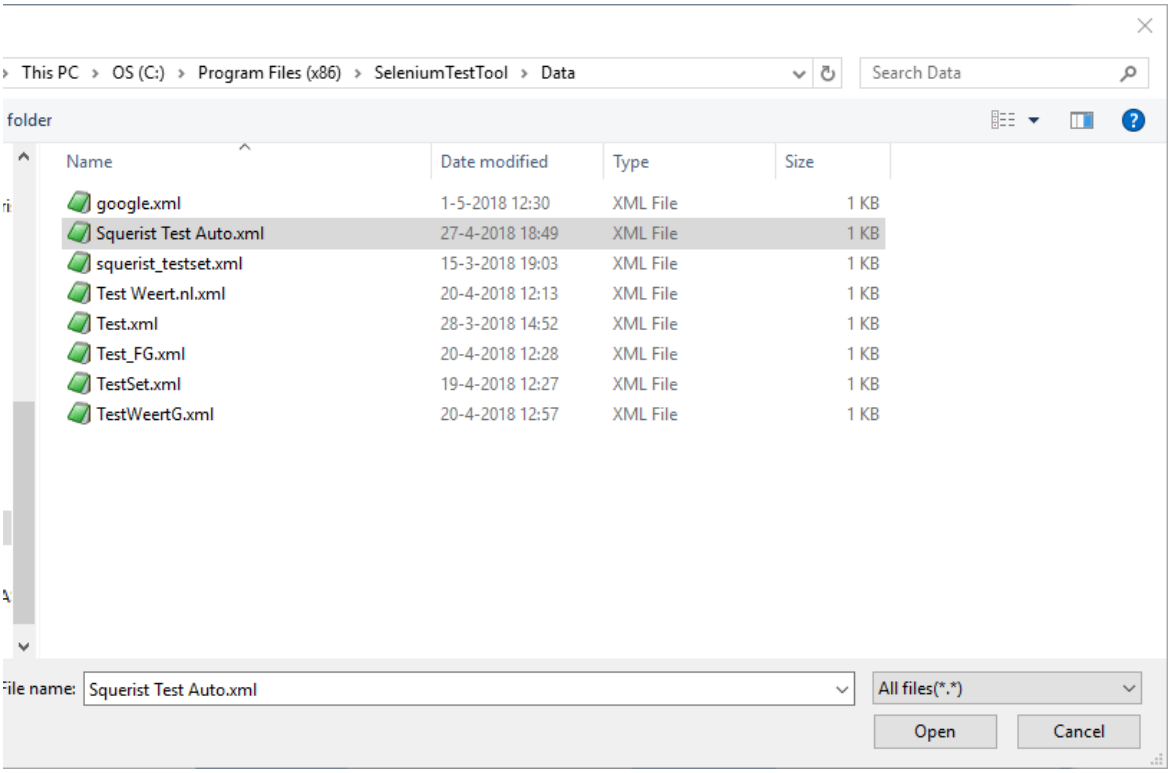


- Select the test scenario you want to add the elements to and click the Open button.



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All the selected element are now added to the selected test scenario. You can check this by using the Edit Test Steps option.

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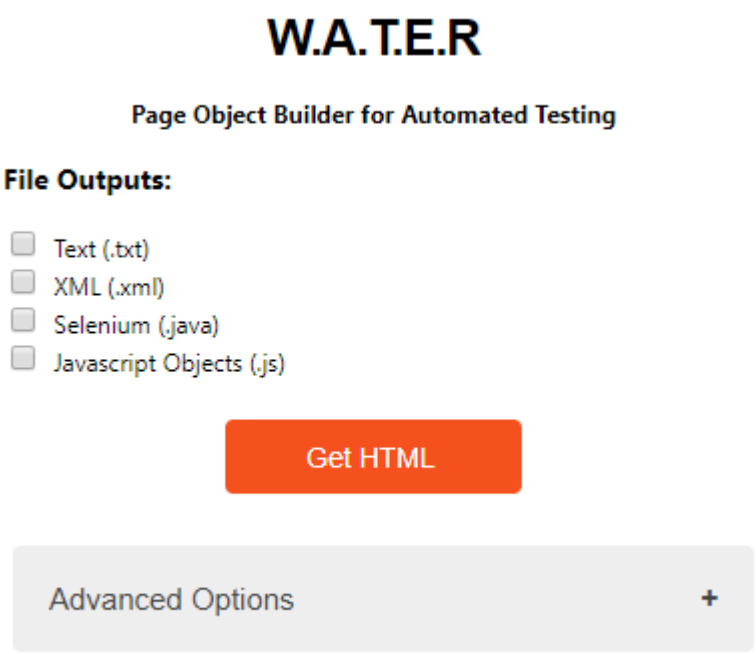
4 Bulk Changes

For Bulk Changes there are 3 options:

- Import Elements
- Copy Elements
- Delete Elements

4.1 Import Elements

To get all the elements off a website, there are several addons to get the elements in a file. For instance in an XML file. The W.A.T.E.R. add on for Chrome is a good example.



To use this add on do the following steps:

- Open Chrome
- Type the correct url for the site you want to get the elements
- Open the W.A.T.E.R. addon
- Select the XML (.xml) option

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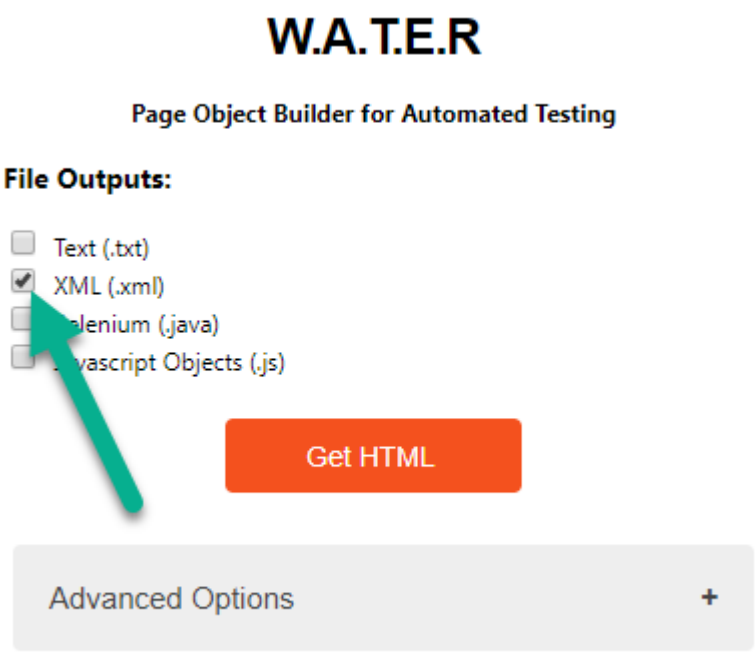
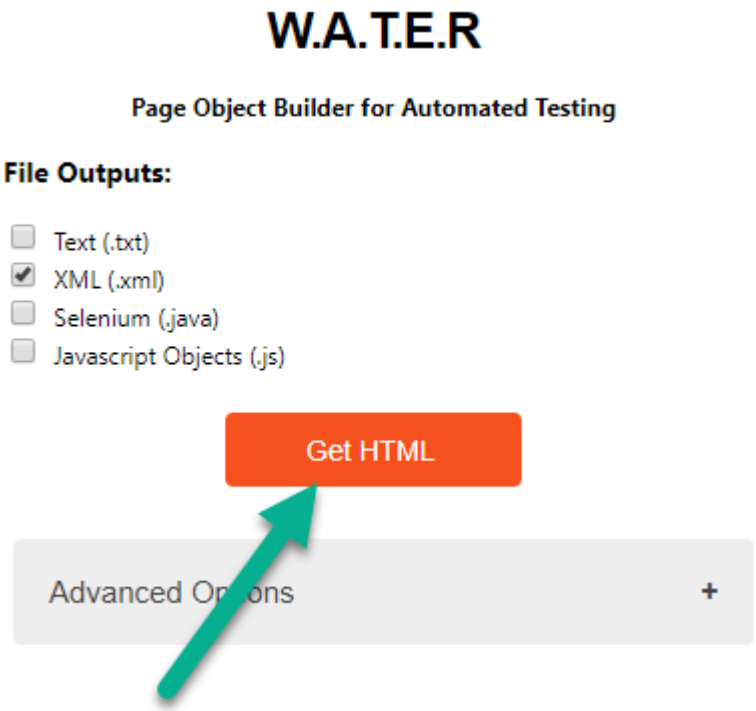


- Click the button 'Get HTML'



W.A.T.E.R. will create an XML file and put that in the download directory.

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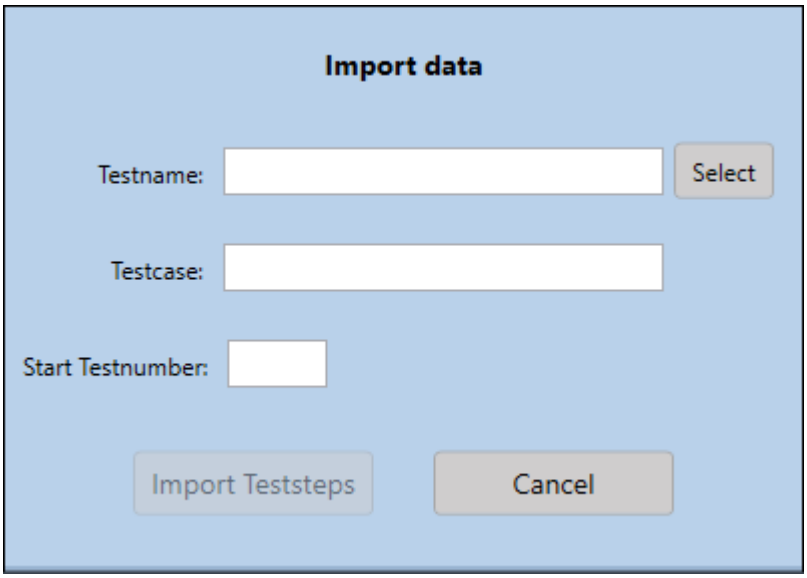
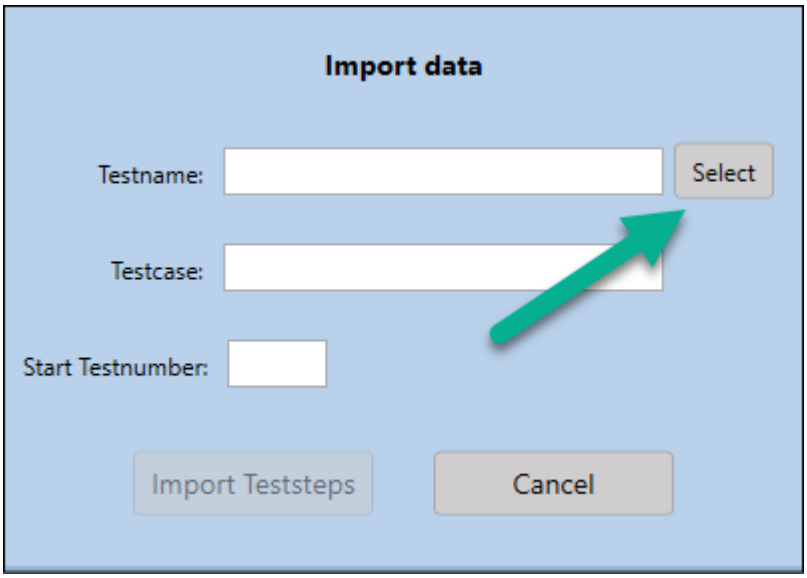
To get all the elements in the test scenario follow the step below:

Steps:

- Open the Import Elements option in the Bulk Changes Menu.



- Click the Select button to select one of the available test scenarios.



- Select one of the XML files and click the Open button

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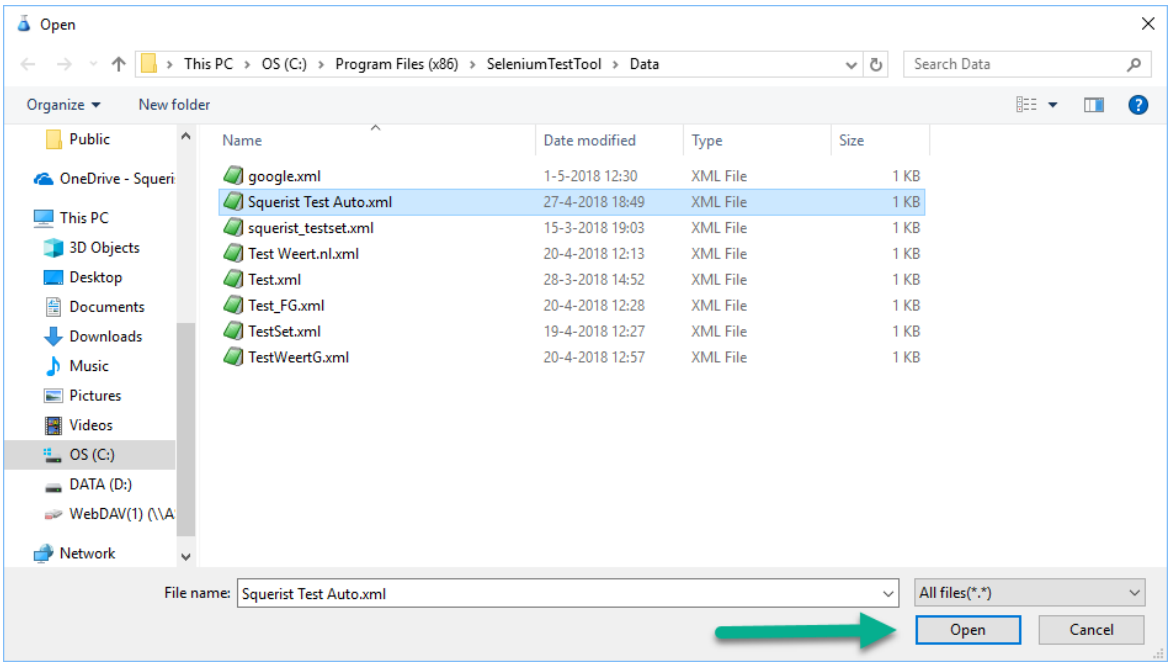
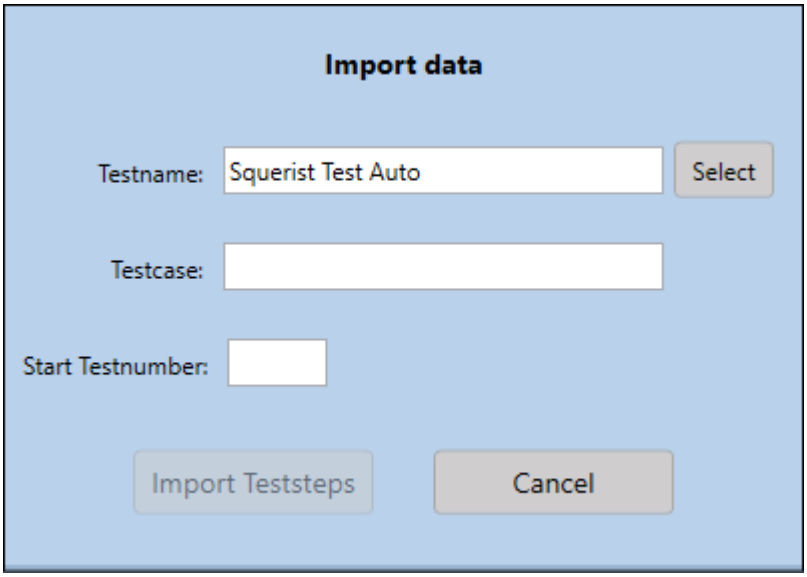


- The Testname is filled in with the selected test scenario name.



- Type the Testcase name in the Testcase textbox

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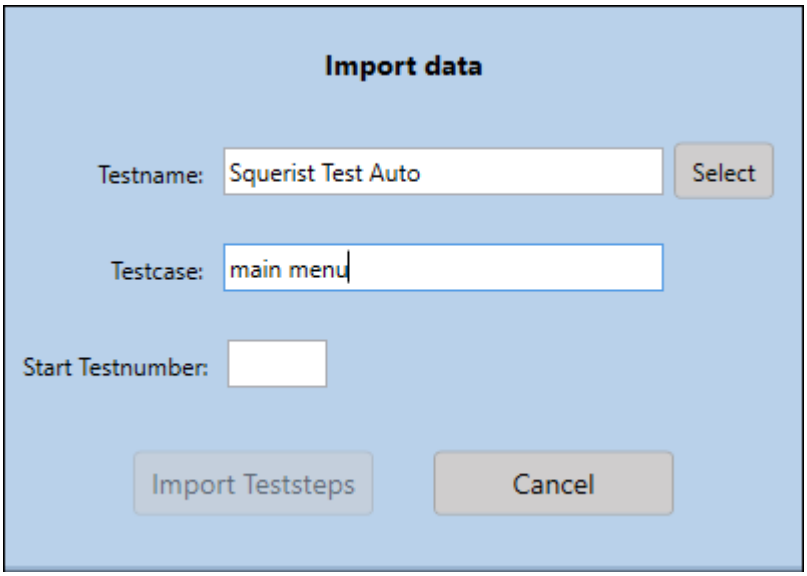
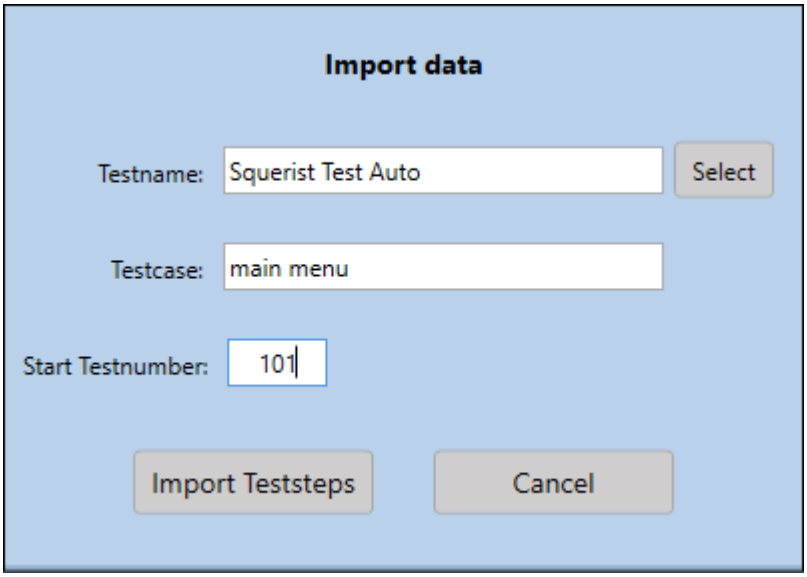


- Fill in the Start Testnumber value in the Start Testnumber textbox.



- Now it will be possible to use the Import Teststeps button

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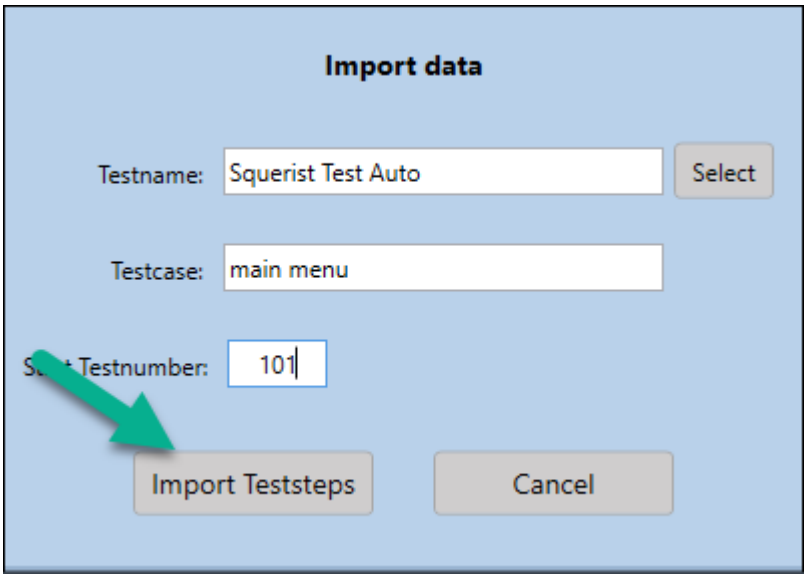
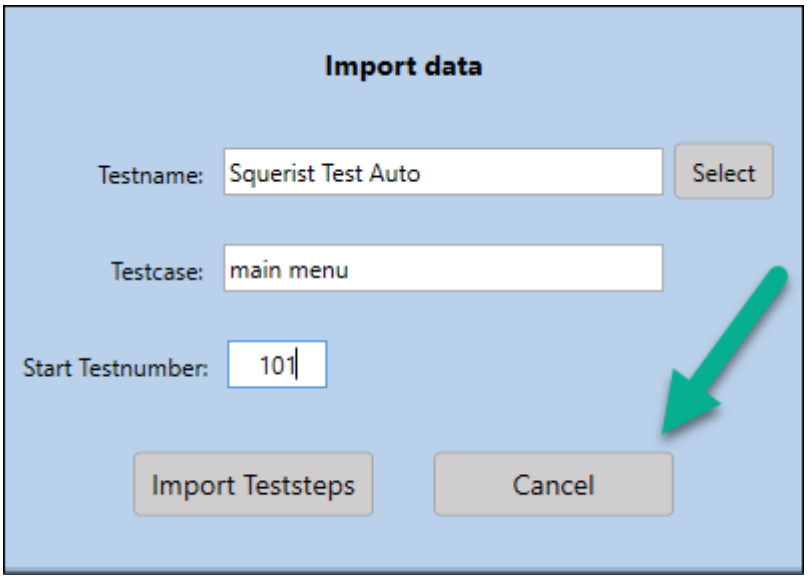


After clicking Import Teststeps button all the data will be put in the database for later use.

If the user want to terminate this action, he of she can click the Cancel button.



4.2 Copy Elements

After testing a smaller part of the test steps it will be possible to put the test step from the smaller test scenario into another test scenario. For doing this you can use the following option:

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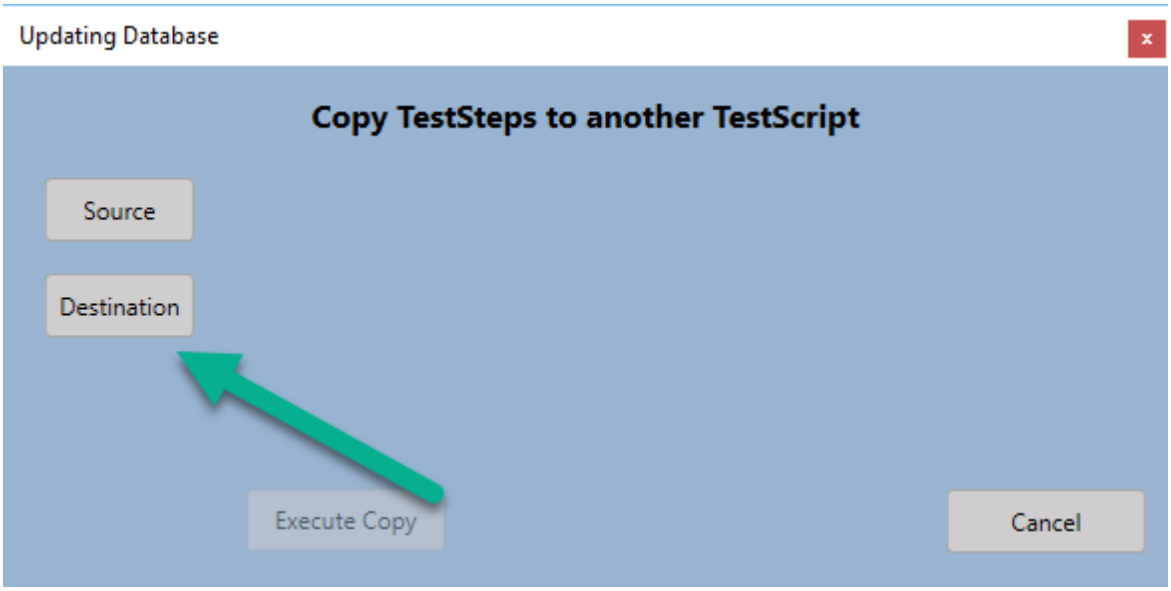
Steps:

- Open the Copy Elements option in the Bulk Changes Menu.

- Click the Source button to select the test scenario which elements you want to copy.



- Select an XML file with the test script you want to use and click the Open button

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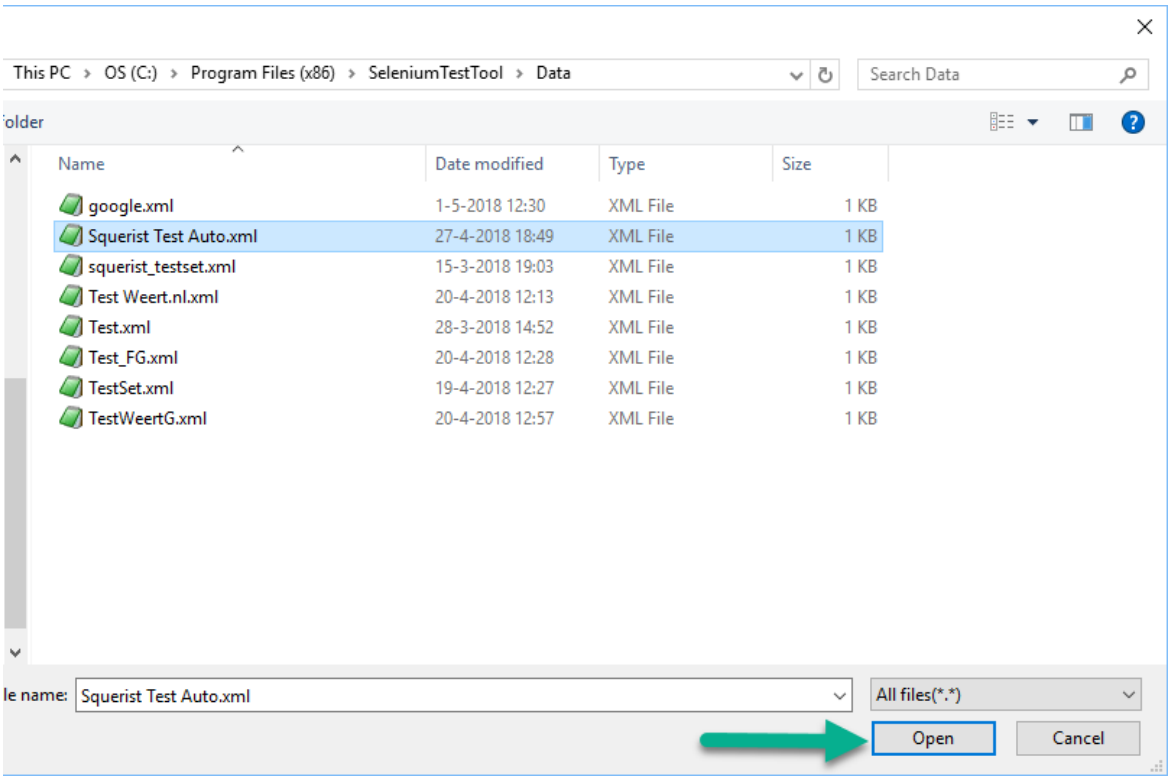
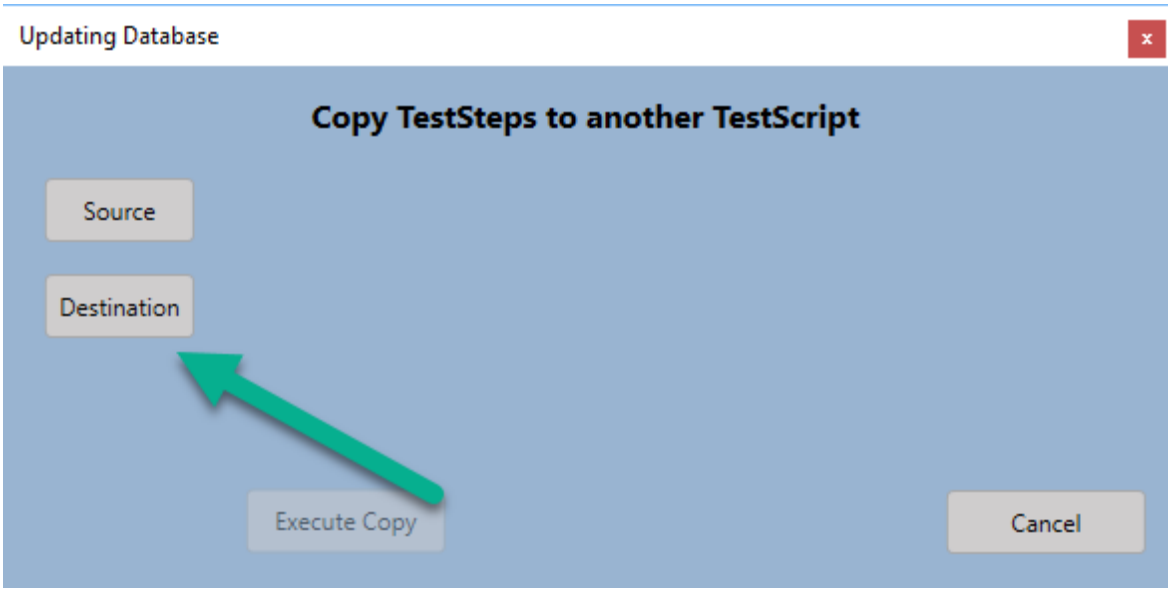


- Click the Destination button to select the test scenario which elements you want to copy.



- Select an XML file with the test script you want to use and click the Open button

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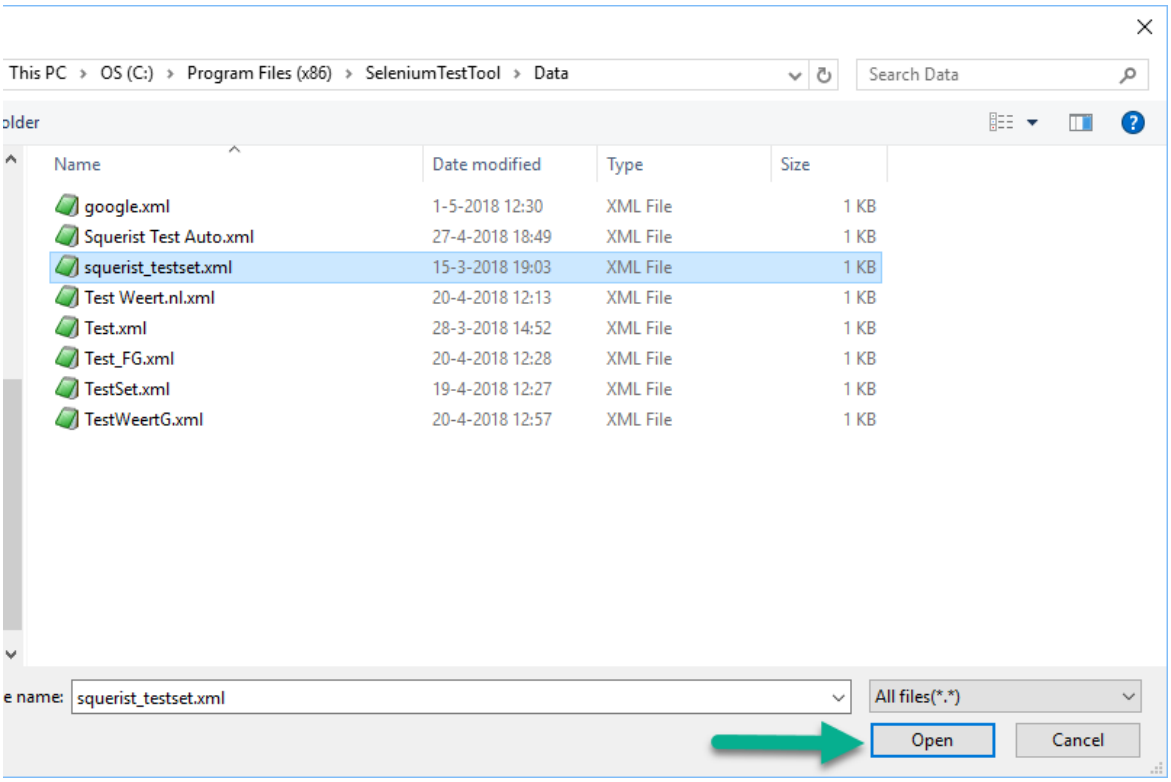

-

4.3 Delete Elements

When there are too much test steps it is also possible to delete test steps with the bulk option. For doing this you can use the following option:

Steps:

- Open the Delete Elements option in the Bulk Changes Menu.

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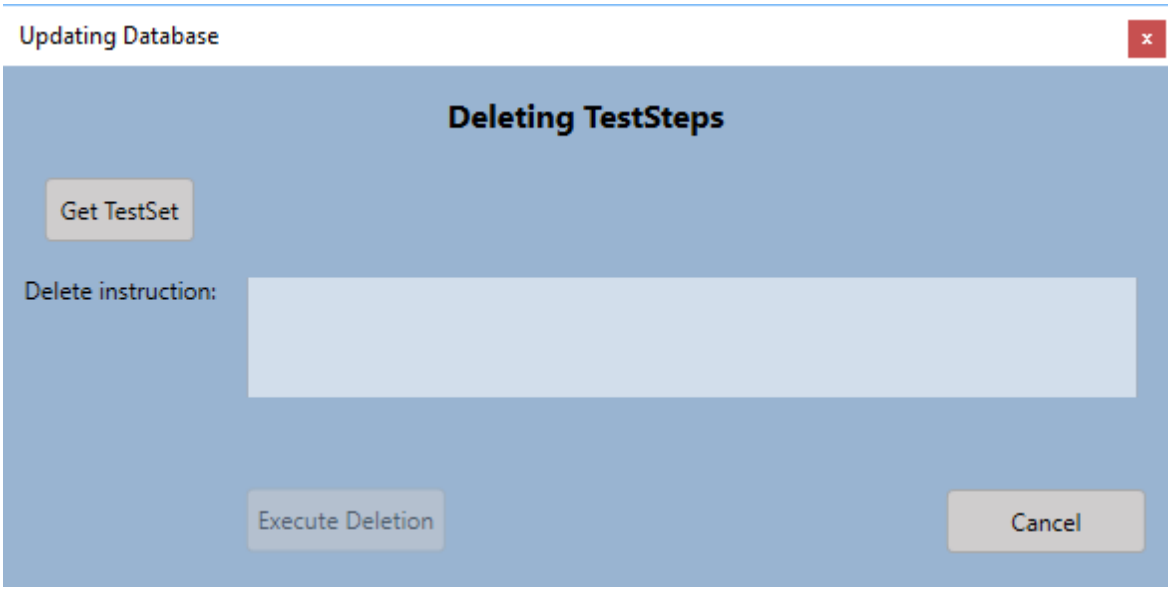
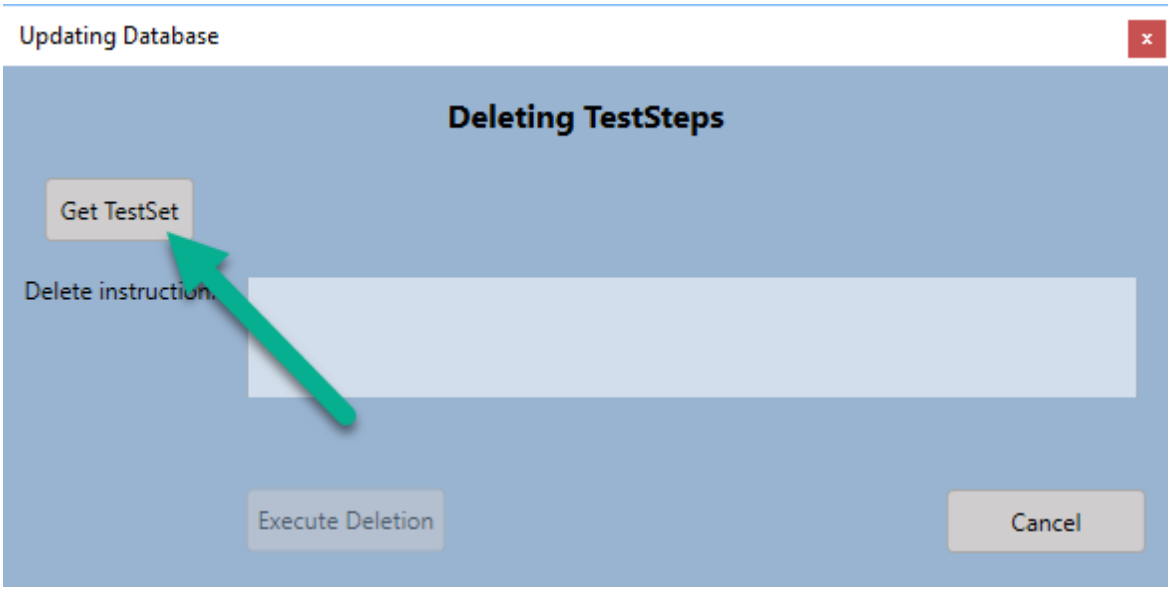


- Click the Get TestSet button to select the test scenario which elements you want to copy.



- Select an XML file with the test script you want to use and click the Open button

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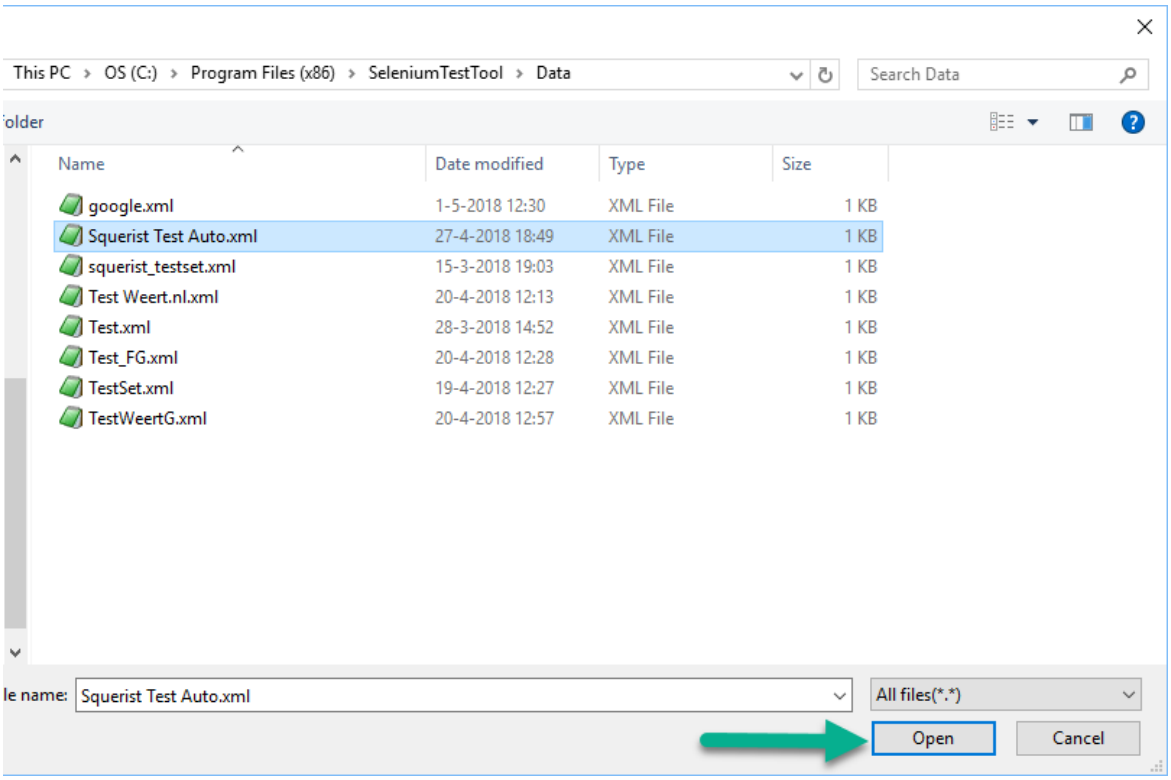
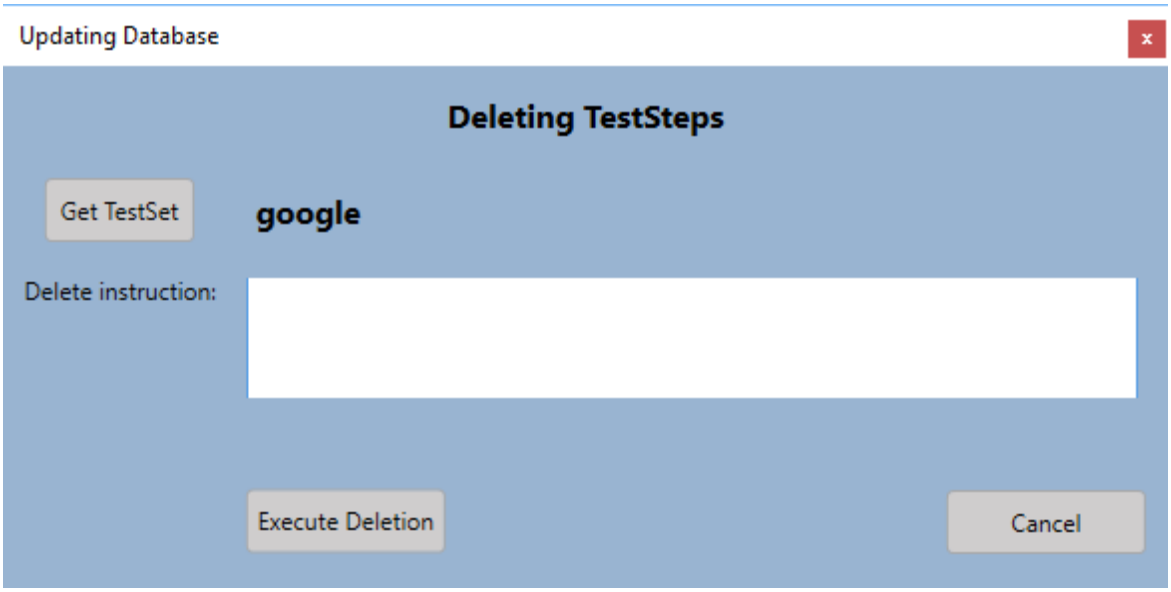


- The Delete instruction text box will be available and the user can fill in the delete instruction.



- For instance 'testnr > 100 and testnr < 200'

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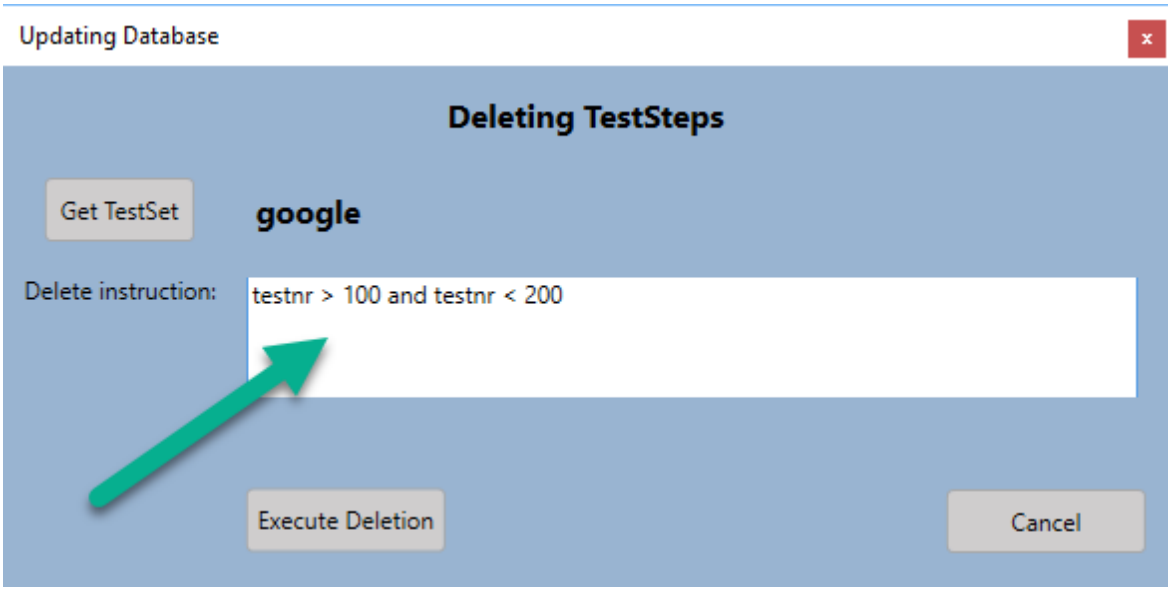
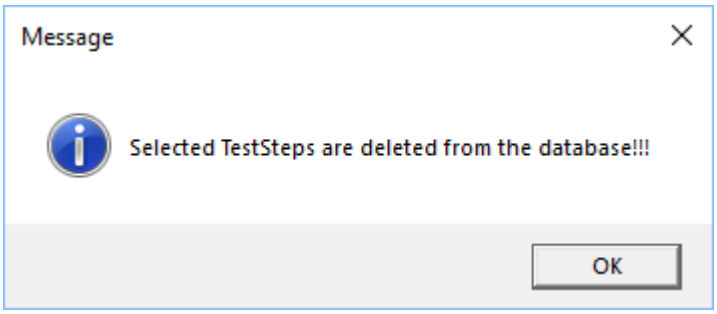


- When there is some text in the Delete instruction text box, the Execute Deletion button will be available and the user can execute the instruction. After clicking the Execute Deletion button the test steps will be deleted from the table in the database.

After that the application will show a message box.



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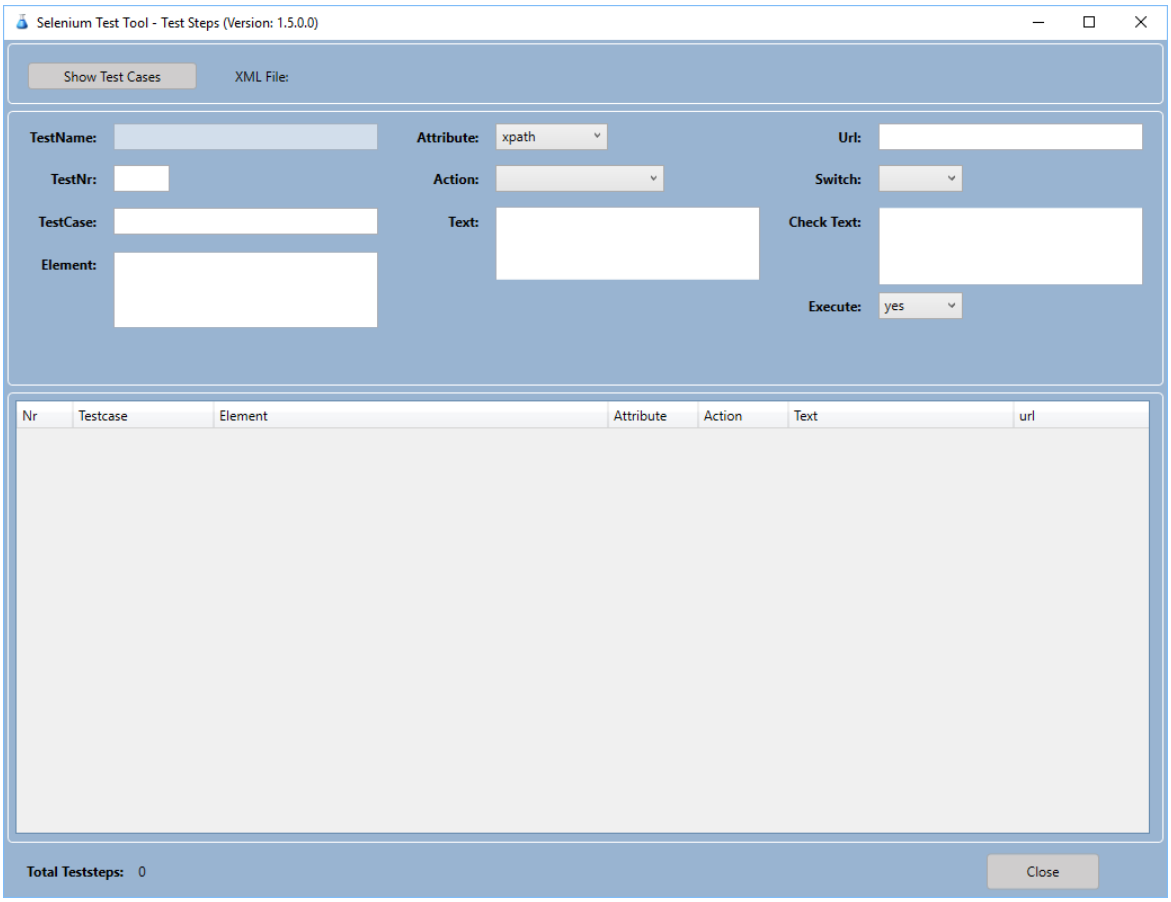
5 Edit Test Steps

All the test steps for the selected test scenario can be edit. You can add test steps or edit or even delete test step. We will explain how you can do that.



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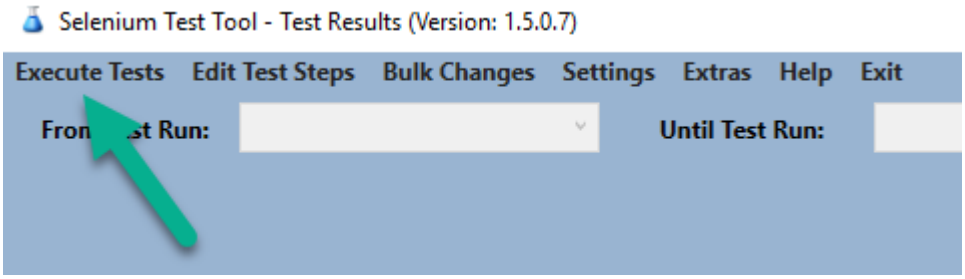
6 Test Execution

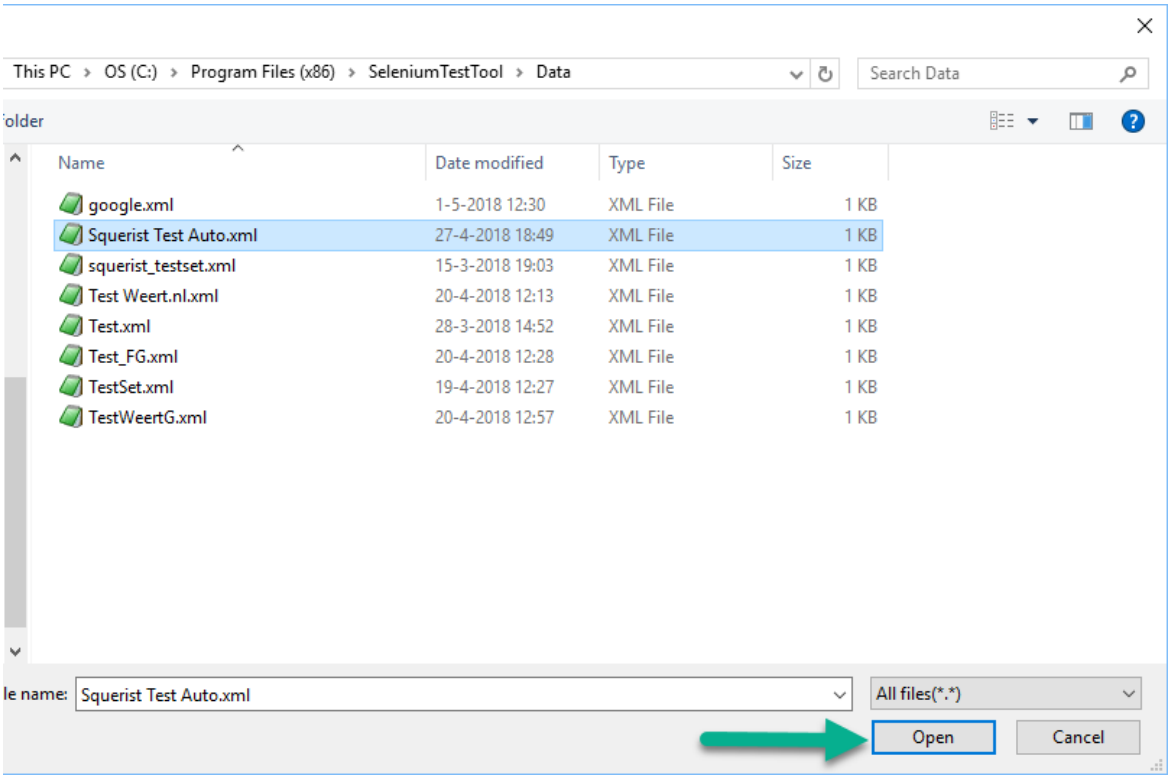
For test execution it is needed that there is at least 1 test scenario. Otherwise the menu option for Execute Test will be disabled.

For Test Execution the user has to do the following steps:

- Click on the Execution Menu



- Select the test to be execute and click the Open button



- Click on one of the five radio button for selecting a browser

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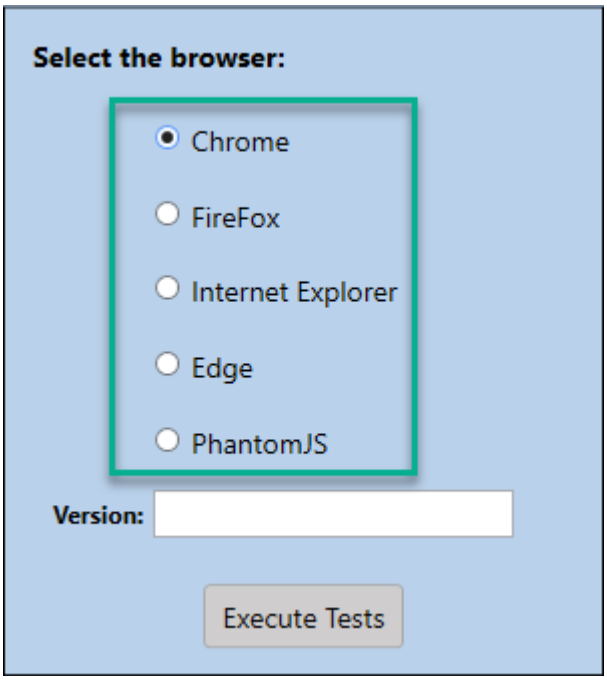
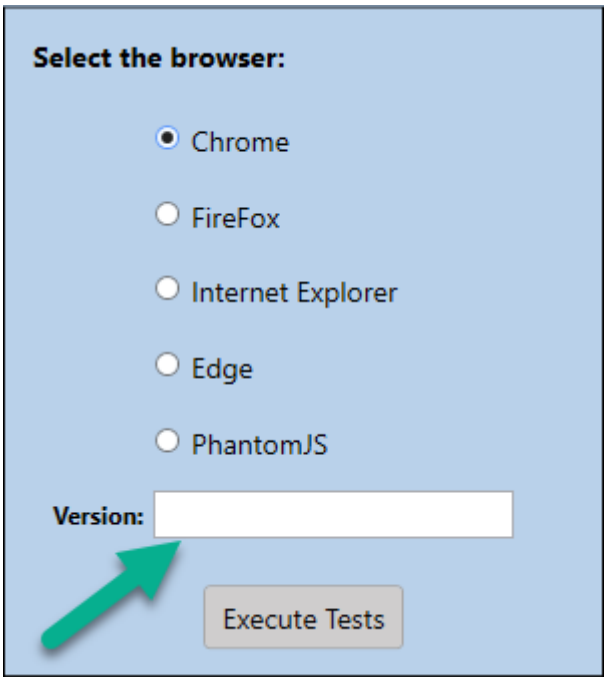


- Fill in the version of the app that will be tested. This opportunity is optional.



- Click the Execute Test button

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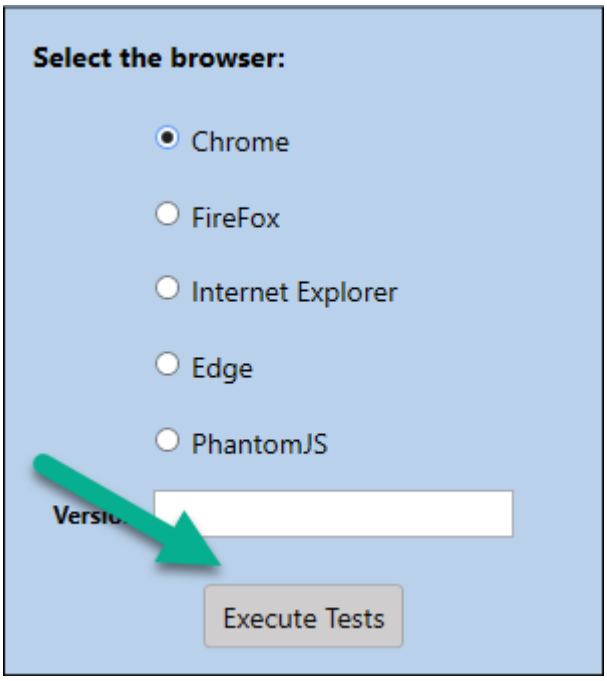

After the test execution all the test results are visible in the Main Window:

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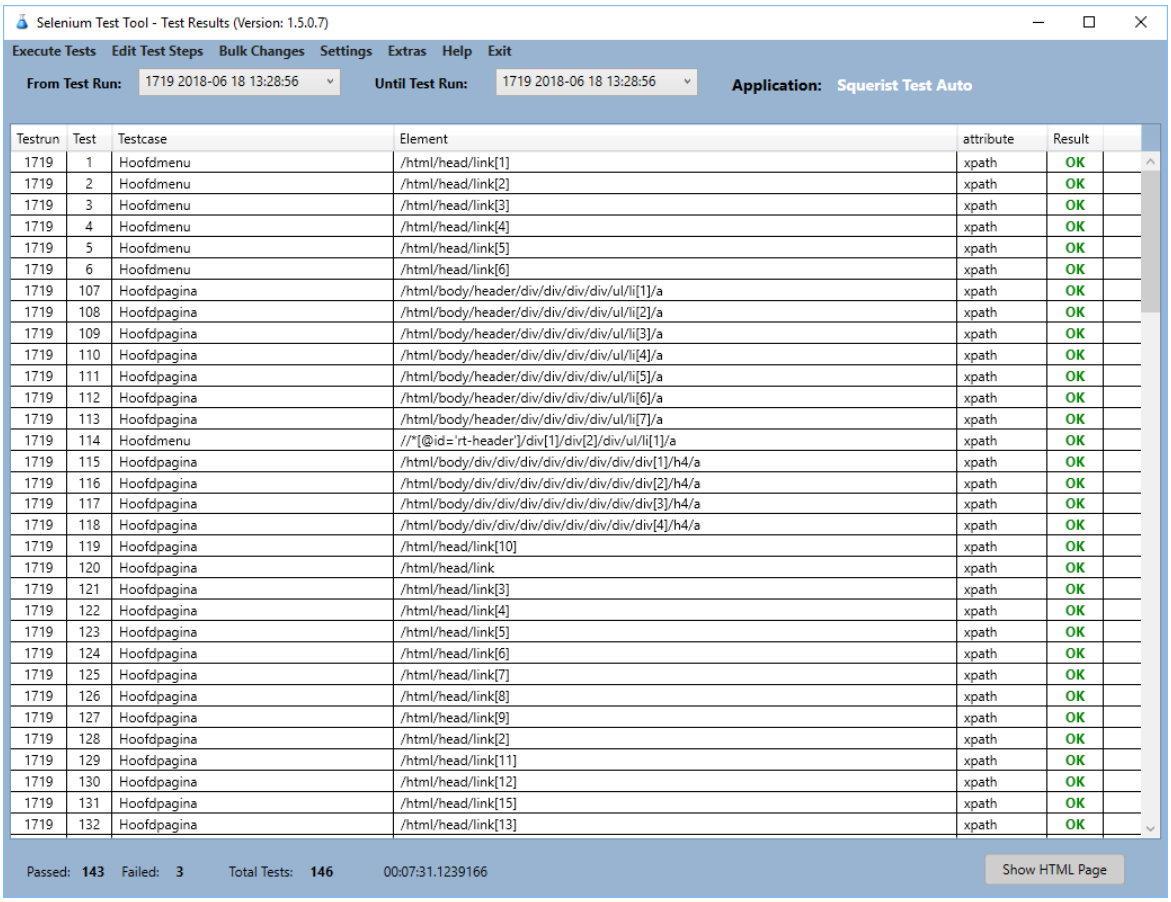

Testrun	Test	Testcase	Element	attribute	Result
1719	1	Hoofdmenu	/html/head/link[1]	xpath	OK
1719	2	Hoofdmenu	/html/head/link[2]	xpath	OK
1719	3	Hoofdmenu	/html/head/link[3]	xpath	OK
1719	4	Hoofdmenu	/html/head/link[4]	xpath	OK
1719	5	Hoofdmenu	/html/head/link[5]	xpath	OK
1719	6	Hoofdmenu	/html/head/link[6]	xpath	OK
1719	107	Hoofdpagina	/html/body/header/div/div/div/div/ul/li[1]/a	xpath	OK
1719	108	Hoofdpagina	/html/body/header/div/div/div/div/ul/li[2]/a	xpath	OK
1719	109	Hoofdpagina	/html/body/header/div/div/div/div/ul/li[3]/a	xpath	OK
1719	110	Hoofdpagina	/html/body/header/div/div/div/div/ul/li[4]/a	xpath	OK
1719	111	Hoofdpagina	/html/body/header/div/div/div/div/ul/li[5]/a	xpath	OK
1719	112	Hoofdpagina	/html/body/header/div/div/div/div/ul/li[6]/a	xpath	OK
1719	113	Hoofdpagina	/html/body/header/div/div/div/div/ul/li[7]/a	xpath	OK
1719	114	Hoofdmenu	//*[@id='rt-header']/div[1]/div[2]/div/ul/li[1]/a	xpath	OK
1719	115	Hoofdpagina	/html/body/div/div/div/div/div/div/div/div[1]/h4/a	xpath	OK
1719	116	Hoofdpagina	/html/body/div/div/div/div/div/div/div/div[2]/h4/a	xpath	OK
1719	117	Hoofdpagina	/html/body/div/div/div/div/div/div/div/div[3]/h4/a	xpath	OK
1719	118	Hoofdpagina	/html/body/div/div/div/div/div/div/div/div[4]/h4/a	xpath	OK
1719	119	Hoofdpagina	/html/head/link[10]	xpath	OK
1719	120	Hoofdpagina	/html/head/link	xpath	OK
1719	121	Hoofdpagina	/html/head/link[3]	xpath	OK
1719	122	Hoofdpagina	/html/head/link[4]	xpath	OK
1719	123	Hoofdpagina	/html/head/link[5]	xpath	OK
1719	124	Hoofdpagina	/html/head/link[6]	xpath	OK
1719	125	Hoofdpagina	/html/head/link[7]	xpath	OK
1719	126	Hoofdpagina	/html/head/link[8]	xpath	OK
1719	127	Hoofdpagina	/html/head/link[9]	xpath	OK
1719	128	Hoofdpagina	/html/head/link[2]	xpath	OK
1719	129	Hoofdpagina	/html/head/link[11]	xpath	OK
1719	130	Hoofdpagina	/html/head/link[12]	xpath	OK
1719	131	Hoofdpagina	/html/head/link[15]	xpath	OK
1719	132	Hoofdpagina	/html/head/link[13]	xpath	OK

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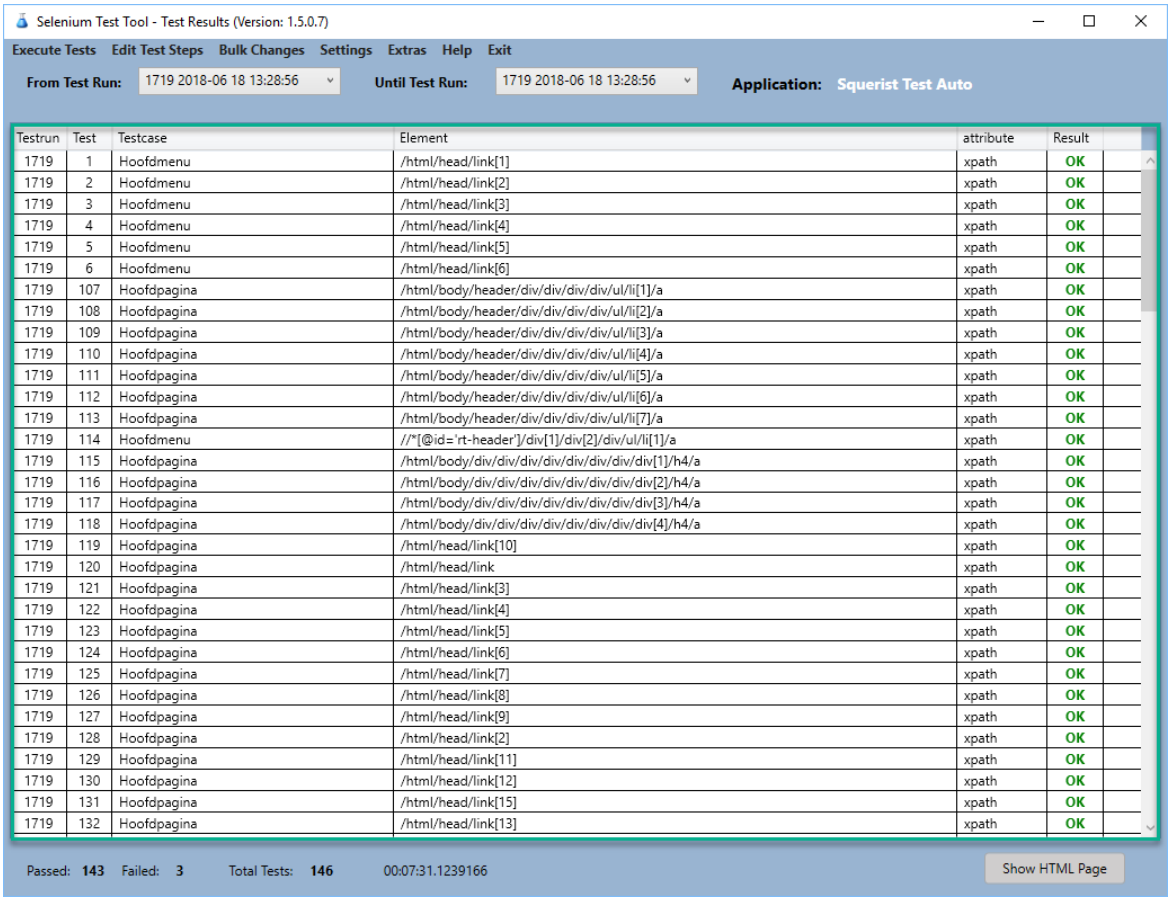
7 Test Results

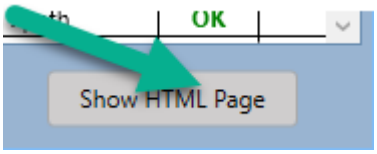
All the test results are stored in the MySQL database and can be showed if the user select this.

At first, after selection the start test run and the until test run, the test results are visible in a data grid.



Testrun	Test	Testcase	Element	attribute	Result
1719	1	Hoofdmenu	/html/head/link[1]	xpath	OK
1719	2	Hoofdmenu	/html/head/link[2]	xpath	OK
1719	3	Hoofdmenu	/html/head/link[3]	xpath	OK
1719	4	Hoofdmenu	/html/head/link[4]	xpath	OK
1719	5	Hoofdmenu	/html/head/link[5]	xpath	OK
1719	6	Hoofdmenu	/html/head/link[6]	xpath	OK
1719	107	Hoofdpagina	/html/body/header/div/div/div/ul/li[1]/a	xpath	OK
1719	108	Hoofdpagina	/html/body/header/div/div/div/ul/li[2]/a	xpath	OK
1719	109	Hoofdpagina	/html/body/header/div/div/div/ul/li[3]/a	xpath	OK
1719	110	Hoofdpagina	/html/body/header/div/div/div/ul/li[4]/a	xpath	OK
1719	111	Hoofdpagina	/html/body/header/div/div/div/ul/li[5]/a	xpath	OK
1719	112	Hoofdpagina	/html/body/header/div/div/div/ul/li[6]/a	xpath	OK
1719	113	Hoofdpagina	/html/body/header/div/div/div/ul/li[7]/a	xpath	OK
1719	114	Hoofdmenu	//*[@id='rt-header']/div[1]/div[2]/div/ul/li[1]/a	xpath	OK
1719	115	Hoofdpagina	/html/body/div/div/div/div/div/div/div[1]/h4/a	xpath	OK
1719	116	Hoofdpagina	/html/body/div/div/div/div/div/div/div[2]/h4/a	xpath	OK
1719	117	Hoofdpagina	/html/body/div/div/div/div/div/div/div[3]/h4/a	xpath	OK
1719	118	Hoofdpagina	/html/body/div/div/div/div/div/div/div[4]/h4/a	xpath	OK
1719	119	Hoofdpagina	/html/head/link[10]	xpath	OK
1719	120	Hoofdpagina	/html/head/link	xpath	OK
1719	121	Hoofdpagina	/html/head/link[3]	xpath	OK
1719	122	Hoofdpagina	/html/head/link[4]	xpath	OK
1719	123	Hoofdpagina	/html/head/link[5]	xpath	OK
1719	124	Hoofdpagina	/html/head/link[6]	xpath	OK
1719	125	Hoofdpagina	/html/head/link[7]	xpath	OK
1719	126	Hoofdpagina	/html/head/link[8]	xpath	OK
1719	127	Hoofdpagina	/html/head/link[9]	xpath	OK
1719	128	Hoofdpagina	/html/head/link[2]	xpath	OK
1719	129	Hoofdpagina	/html/head/link[11]	xpath	OK
1719	130	Hoofdpagina	/html/head/link[12]	xpath	OK
1719	131	Hoofdpagina	/html/head/link[15]	xpath	OK
1719	132	Hoofdpagina	/html/head/link[13]	xpath	OK

Also it is possible to show the test results in a HTML page. For this the user can click the Show HTML Page button.



Clicking this button will result in the following overview:

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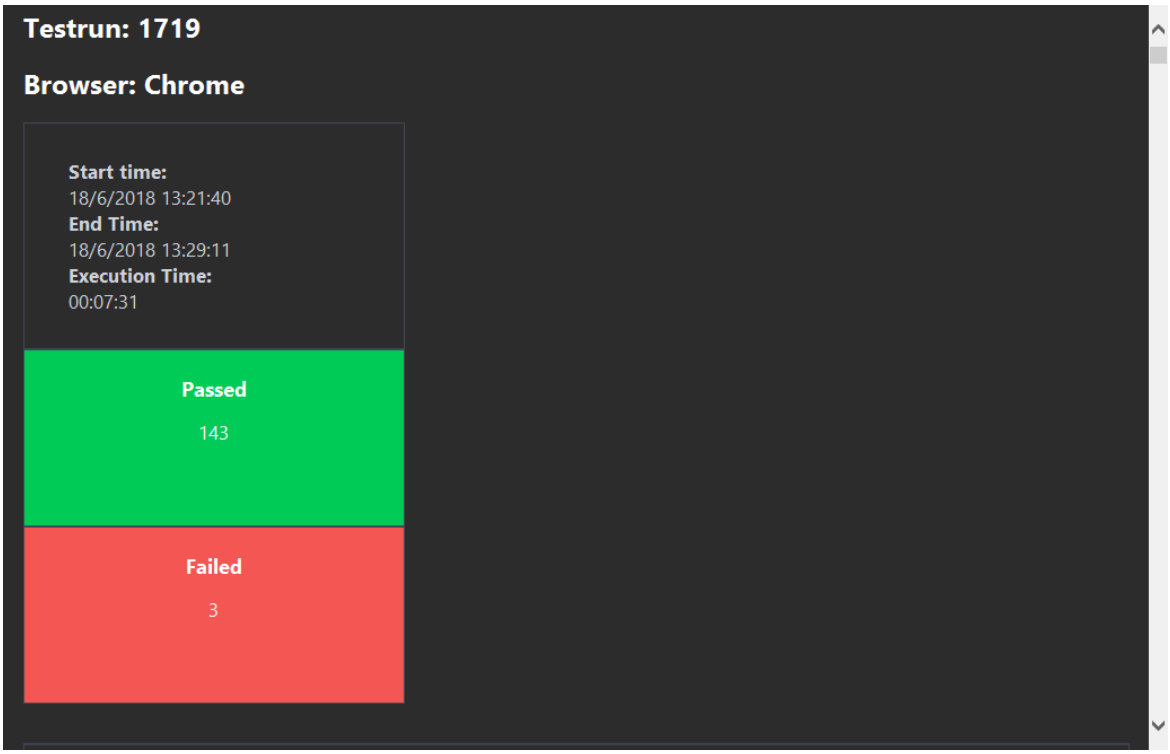
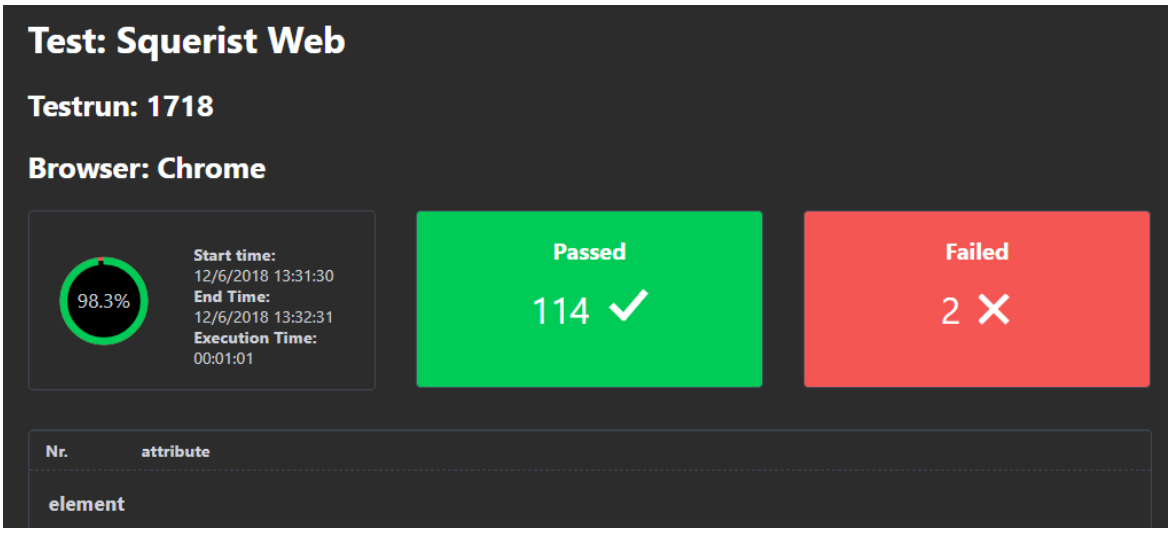


Also is is possible to show the test results on the web. For this go to the TestReports directory and you can find all the test results in HTML format.



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