Tosca Advanced Toolkit

Manual – Tosca Testsuite 10.1

Contents

Introduction

Tosca (10.1) Advanced Toolkit Package contains Toolkit Setup file and Artifacts for Tosca Advanced Toolkit Installation.

To install the Toolkit application, run Toolkit Setup Application as an Administrator.

During Installation Toolkit Application, will -

- Create Tosca Toolkit Directory in Tosca projects (C:\Tosca_Projects)
- Copy all dlls, .exe and bat files in Tosca home (C:\Program Files(x86)\ TRICENTIS\Tosca Test suite)
- Copy TOSCA Advanced Toolkit Workspace in Tosca Workspace Directory (C:\Tosca_Projects\Tosca_Workspaces)

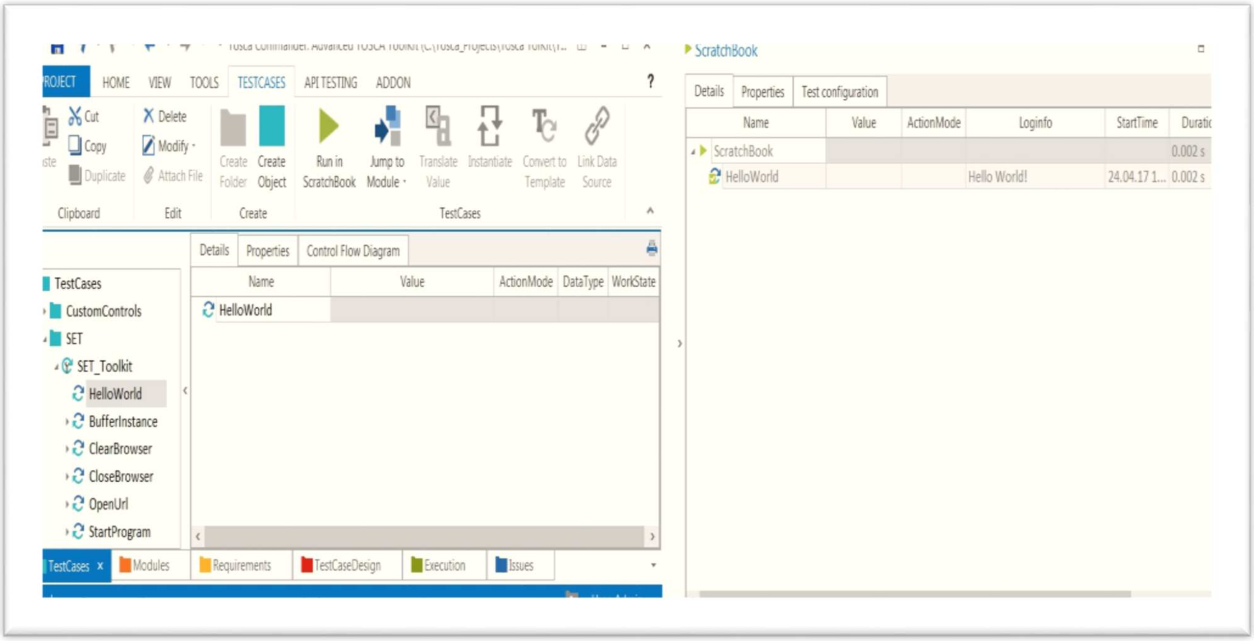
After Successful Installation of Tosca (10.1) Advanced Toolkit, it opens Tosca Commander and opens Tosca Advanced Toolkit project.

1.0 Special Execution Tasks

Special Execution Tasks include six Tasks. Each Special Execution Task (SET) has EngineIdAttribute: “EngName_SET_ToolKit”

1.1 HelloWorld

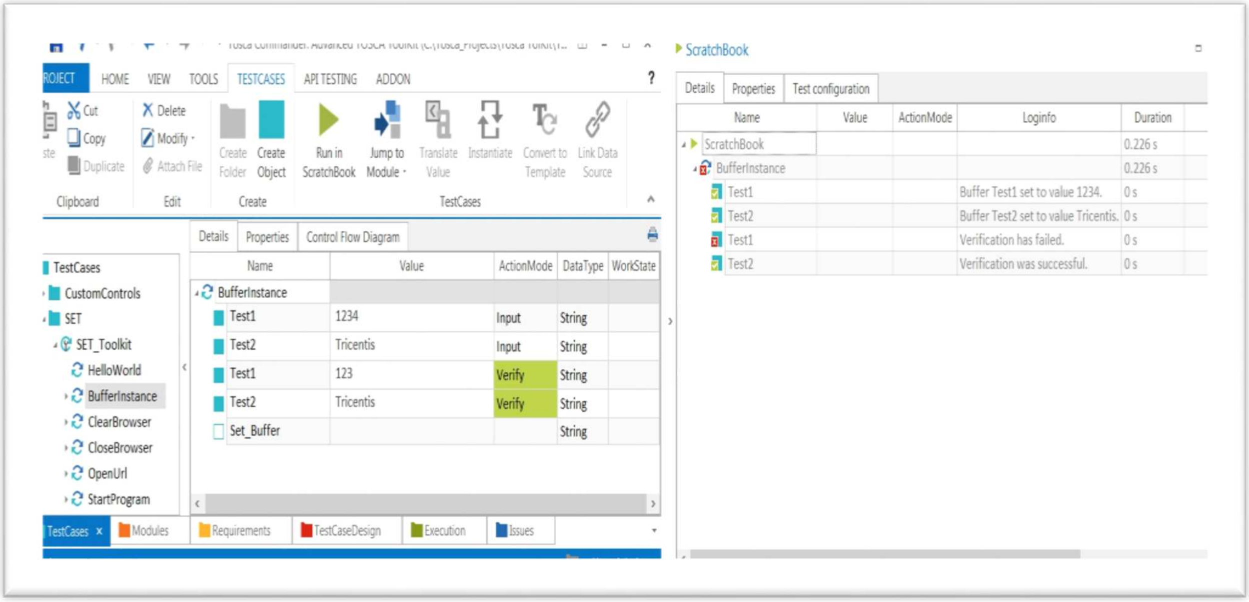
This Special Execution Task serves the purpose of returning the “Hello World” result.
SpecialExecutionTaskName: “SETName_HelloWorld”
Both the Engine and SpecialExecutionTask configuration parameter needs to be set with their names respectively for each SET.



Name	Value	ActionMode	Loginfo	StartTime	Duratic
ScratchBook					0.002 s
HelloWorld			Hello World!	24.04.17 1...	0.002 s

1.2 Buffer Instance

This SET serves the purpose of creating the buffer instance with the name provided and using this buffer name, it verifies the buffer value.
SpecialExecutionTaskName: "SETName_BufferInstance".
Sample test buffer are created and used to verify value, shown below



Name	Value	ActionMode	DataType	WorkState
BufferInstance				
Test1	1234	Input	String	
Test2	Tricentis	Input	String	
Test1	123	Verify	String	
Test2	Tricentis	Verify	String	
Set_Buffer			String	

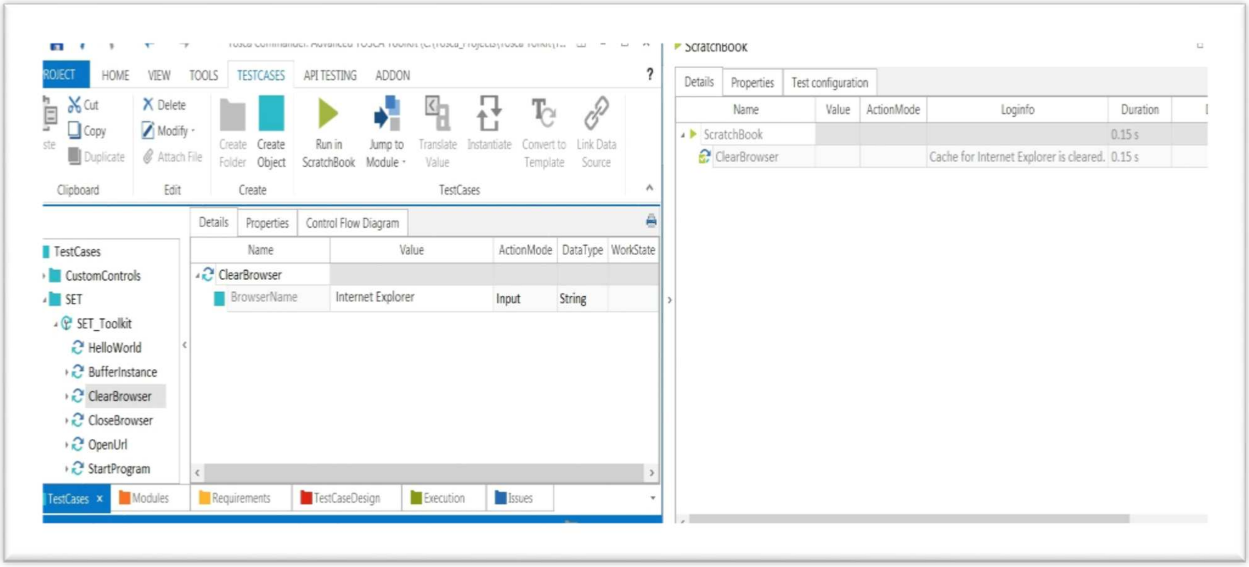
Name	Value	ActionMode	Loginfo	Duration
ScratchBook				0.226 s
BufferInstance				0.226 s
Test1			Buffer Test1 set to value 1234.	0 s
Test2			Buffer Test2 set to value Tricentis.	0 s
Test1			Verification has failed.	0 s
Test2			Verification was successful.	0 s

1.3 Clear Browser

This SET serves the purpose to clear the cache memory of the browser selected from the browser Name list provided. Browser list includes options of Internet Explorer, Mozilla Firefox and Google Chrome.

SpecialExecutionTaskName: "SETName_ClearBrowser"

Test case shown below accepts the browser selected and clears the cache memory, result is as shown in Scratch Book Log info.



Name	Value	ActionMode	DataType	WorkState
ClearBrowser				
BrowserName	Internet Explorer	Input	String	

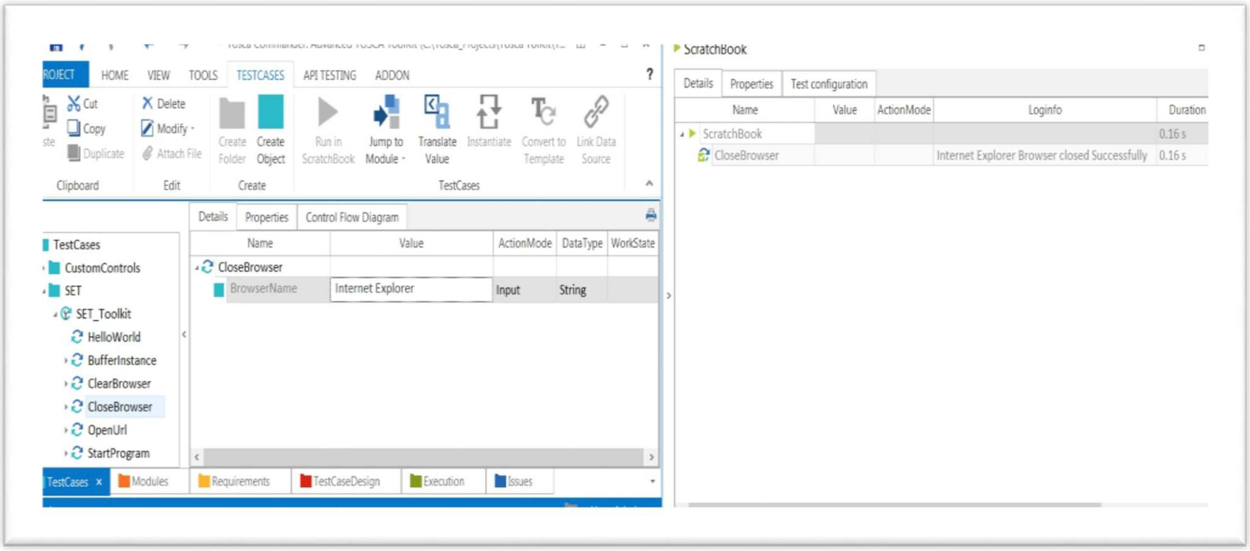
Name	Value	ActionMode	Loginfo	Duration
ScratchBook				0.15 s
ClearBrowser			Cache for Internet Explorer is cleared.	0.15 s

1.4 Close Browser

This SET serves the purpose to close the browser selected from the browser Name list provided. Browser list includes options as Internet Explorer, Mozilla Firefox and Google Chrome.

SpecialExecutionTaskName: "SETName_CloseBrowser"

Test case shown below accepts the browser selected and close the browser, result is shown in Scratch Book Log info



Details | Properties | Control Flow Diagram

Name	Value	ActionMode	DataType	WorkState
CloseBrowser				
BrowserName	Internet Explorer	Input	String	

ScratchBook — Details | Properties | Test configuration

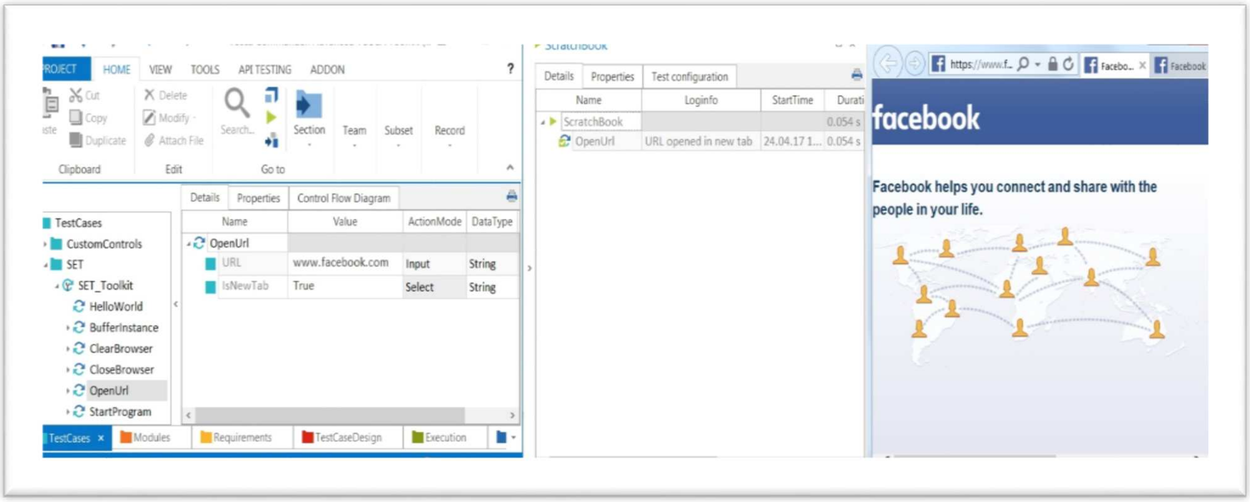
Name	Value	ActionMode	Loginfo	Duration
ScratchBook				0.16 s
CloseBrowser			Internet Explorer Browser closed Successfully	0.16 s

1.5 Open URL

This SET serves the purpose of opening the URL entered in URL test case. It has options as ‘True’ to open this URL in new tab and ‘False’ to open in new window

SpecialExecutionTaskName: "SETName_OpenUrl"

Testcase shown accepts the URL and opens it in new tab result is shown in Scratch Book Log info, Internet explorer having URL in new tab is also shown



Details | Properties | Control Flow Diagram

Name	Value	ActionMode	DataType
OpenUrl			
URL	www.facebook.com	Input	String
IsNewTab	True	Select	String

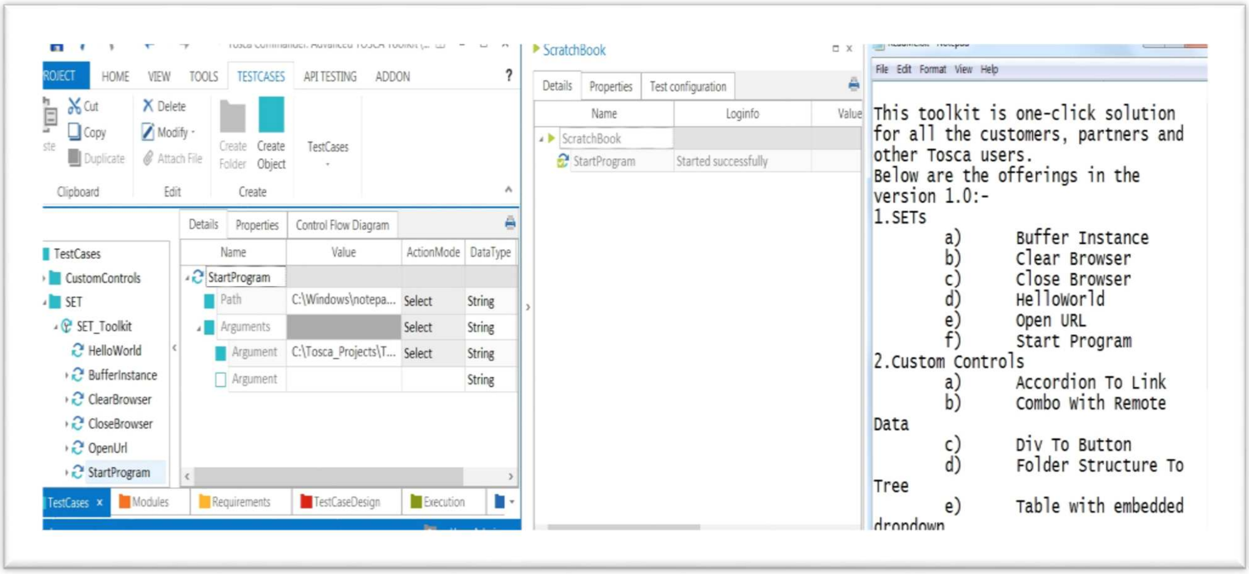
Details | Properties | Test configuration

Name	Loginfo	StartTime	Durati
ScratchBook			0.054 s
OpenUrl	URL opened in new tab	24.04.17 1...	0.054 s

1.6 Start Program

This SET serves the purpose to open the application whose path is provided as in Path and opens the file whose path is provided as in Arguments. You can add multiple arguments.
SpecialExecutionTaskName: "SETName_StartProgram"

Testcase shown below accepts program path of notepad.exe to open and file path of redme.text and start the notepad program with file.



Name	Value	ActionMode	DataType
StartProgram			
Path	C:\Windows\notepa...	Select	String
Arguments		Select	String
Argument	C:\Tosca_Projects\T...	Select	String
Argument			String

Name	Loginfo	Value
ScratchBook		
StartProgram	Started successfully	

```
This toolkit is one-click solution
for all the customers, partners and
other Tosca users.
Below are the offerings in the
version 1.0:-
1.SETs
        a)      Buffer Instance
        b)      Clear Browser
        c)      Close Browser
        d)      HelloWorld
        e)      Open URL
        f)      Start Program
2.Custom Controls
        a)      Accordion To Link
        b)      Combo With Remote
Data
        c)      Div To Button
        d)      Folder Structure To
Tree
        e)      Table with embedded
dropdown
```

2.0 Custom Controls

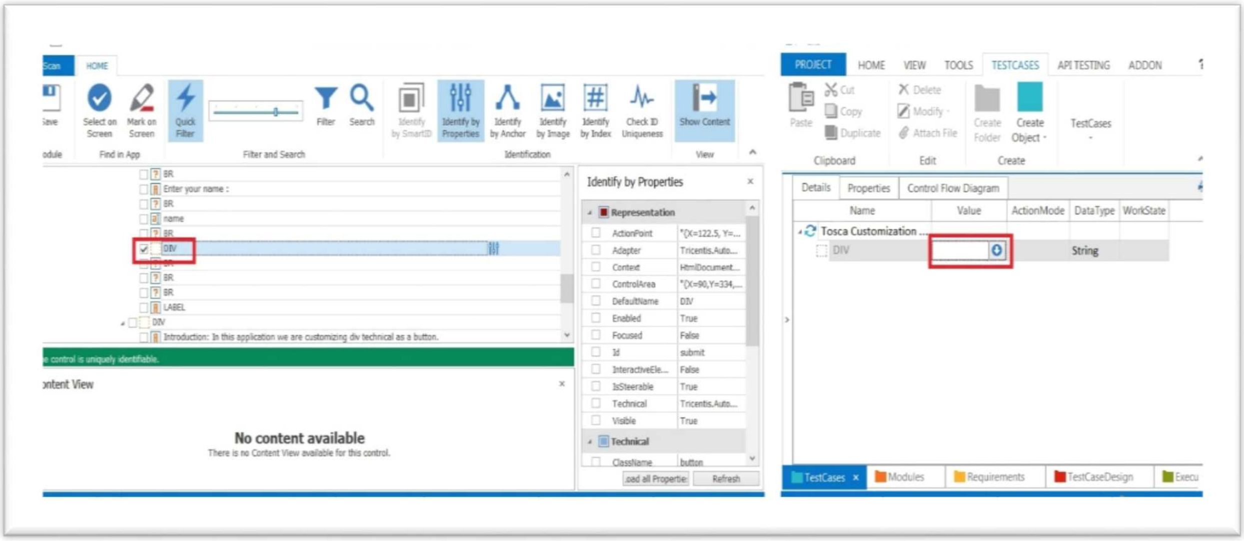
The path of Sample application can be obtained from Tosca Toolkit Directory in Tosca projects (C:\Tosca_Projects\Tosca_Toolkit\CustomControl Applications\Master).
Open the MasterPage.html application in Internet Explorer.

Tosca Advanced Toolkit package contains following Six Custom Controls:

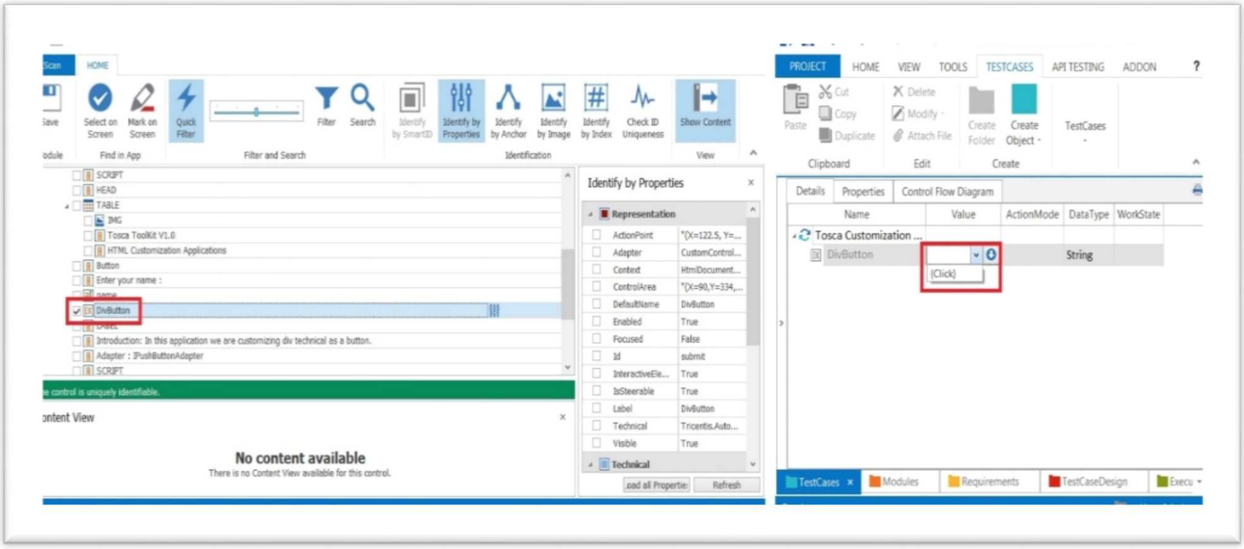
2.1 Div to Button

In Div to Button, we customize a div technical as a button. This Custom Control will use one IPushButtonAdapter.

Before customization -



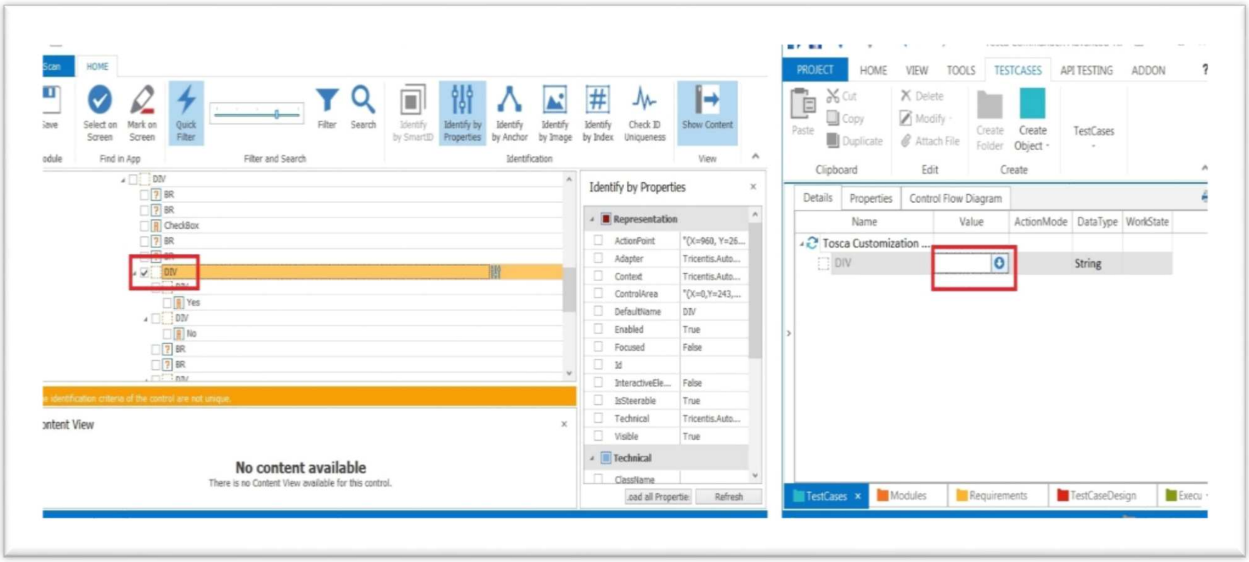
After Customization -



2.2 Toggle – Checkbox

In Toggle Checkbox we customize a div technical as a checkbox.This Custom Control will use one ICheckBoxAdapter.

Before customization -



e identification criteria of the control are not unique.

ontent View

No content available

There is no Content View available for this control.

Identify by Properties

Representation

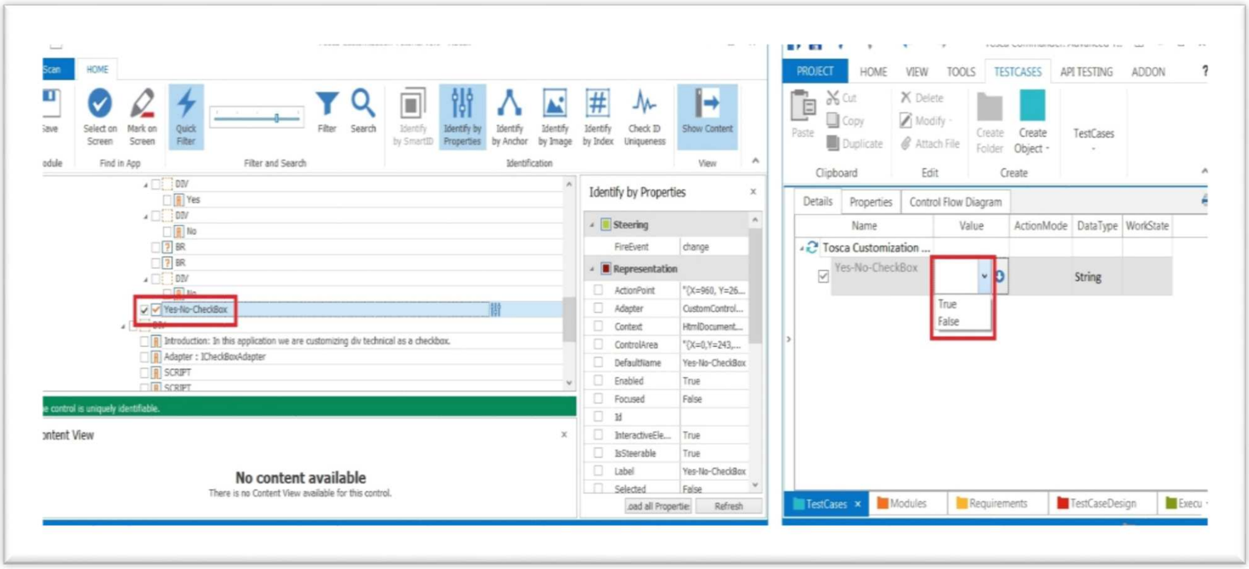
ActionPoint	"{X=960, Y=26...
Adapter	Tricentis.Auto...
Context	Tricentis.Auto...
ControlArea	"{X=0,Y=243,...
DefaultName	DIV
Enabled	True
Focused	False
Id	
InteractiveEle...	False
IsSteerable	True
Technical	Tricentis.Auto...
Visible	True

Technical

ClassName

Name	Value	ActionMode	DataType	WorkState
Tosca Customization ...				
DIV			String	

After Customization -



Introduction: In this application we are customizing div technical as a checkbox.

Adapter : ICheckBoxAdapter

e control is uniquely identifiable.

ontent View

No content available

There is no Content View available for this control.

Identify by Properties

Steering

FireEvent	change

Representation

ActionPoint	"{X=960, Y=26...
Adapter	CustomControl...
Context	HtmlDocument...
ControlArea	"{X=0,Y=243,...
DefaultName	Yes-No-CheckBox
Enabled	True
Focused	False
Id	
InteractiveEle...	True
IsSteerable	True
Label	Yes-No-CheckBox
Selected	False

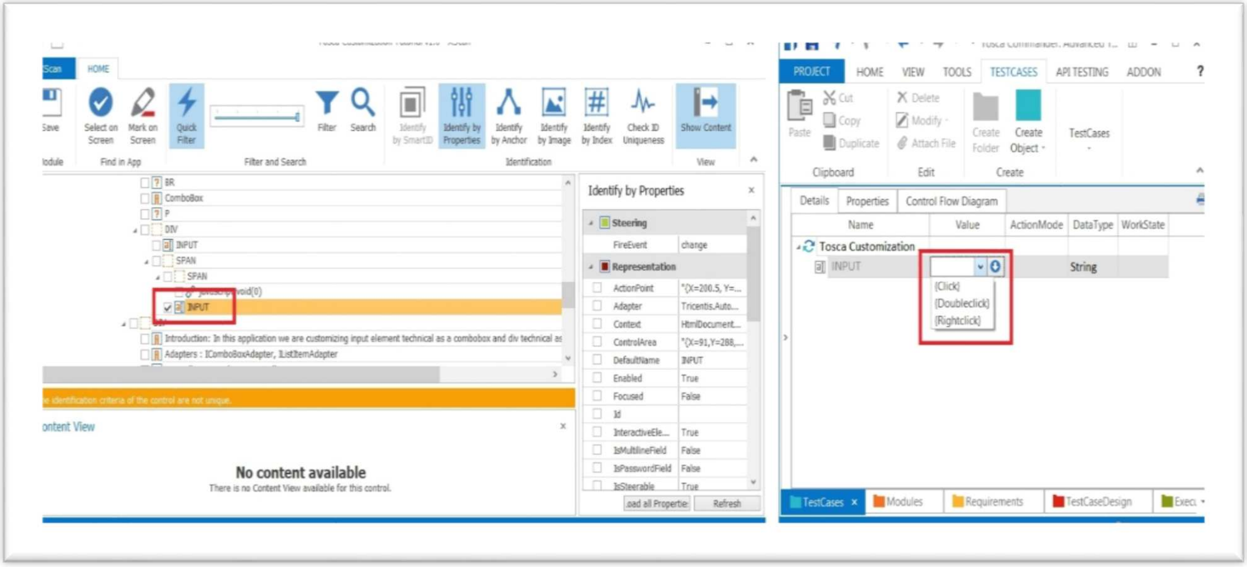
Name	Value	ActionMode	DataType	WorkState
Tosca Customization ...				
Yes-No-CheckBox	True False		String	

2.3 ComboBox with Remote Data

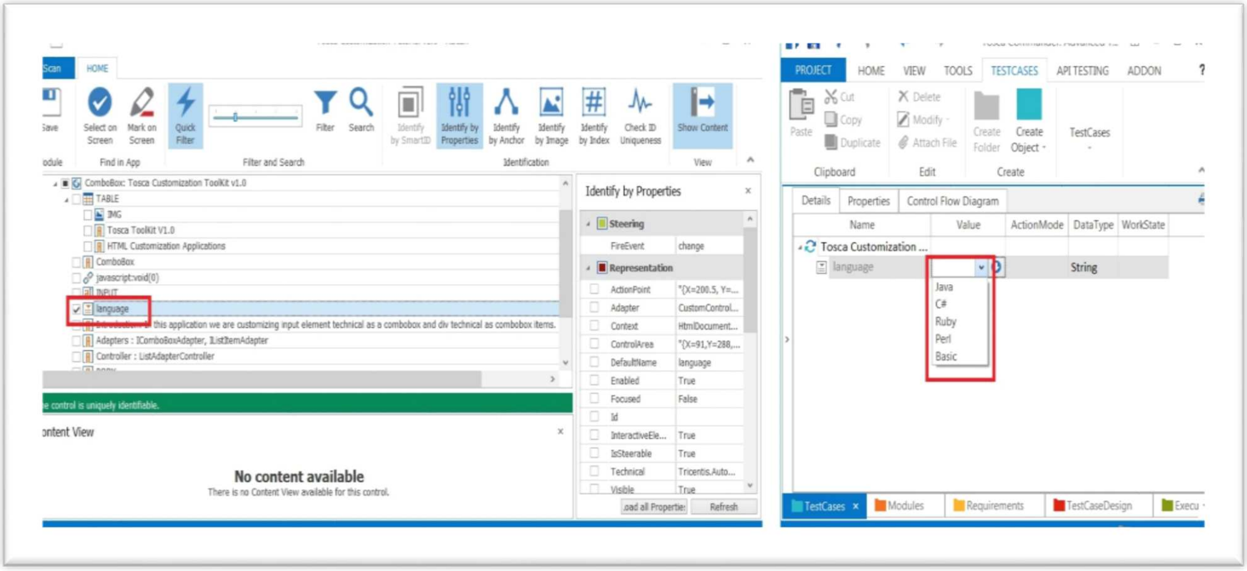
In ComboBox with Remote Data we customize an InputElement technical as a combobox. And div technical as a combobox item. For this we use two Adapters and one Controller:

- IComboBoxAdapter which is use for combobox container
- IListItemAdapter which is used for combobox item
- ListAdapterController

Before customization -



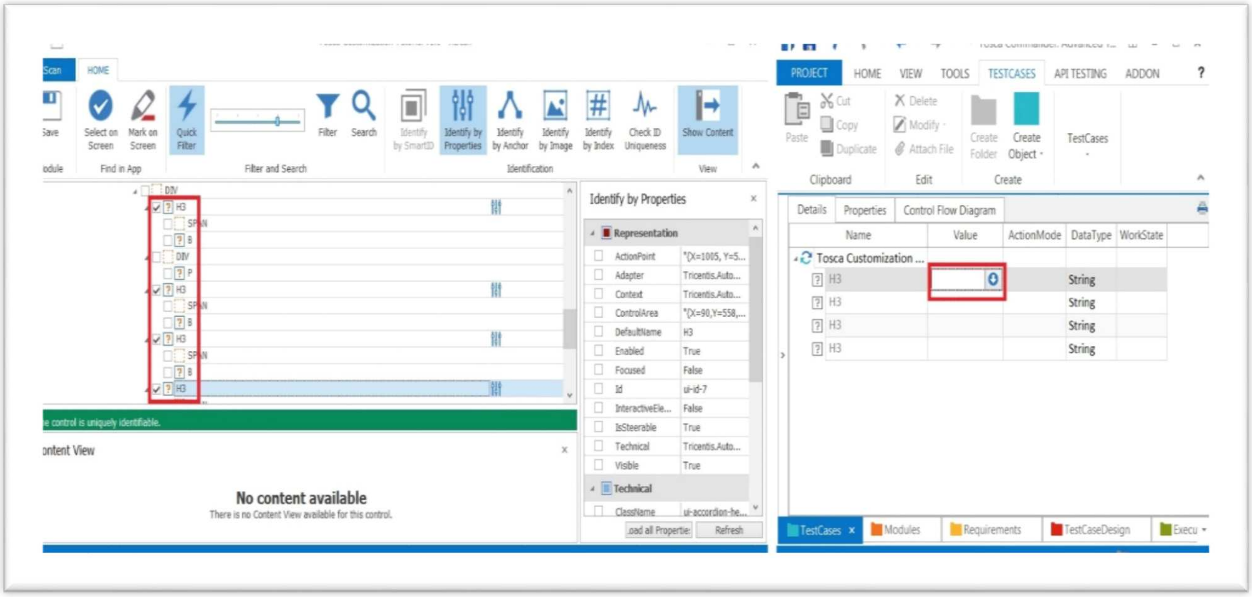
After customization –


ComboBox: Tosca Customization ToolKit v1.0
TABLE
IMG
Tosca ToolKit V1.0
HTML Customization Applications
ComboBox
javascript:void(0)
INPUT
language
Introduction: In this application we are customizing input element technical as a combobox and div technical as combobox items.
Adapters : IComboBoxAdapter, IListItemAdapter
Controller : ListAdapterController
e control is uniquely identifiable.
Identify by Properties
Adapter
CustomControl...
DefaultName
language
No content available
There is no Content View available for this control.
Tosca Customization ...
language
String
Java
C#
Ruby
Perl
Basic

2.4 Accordion To Link

In Accordion to link we customize an Element technical as a link.This Custom Control will use one IlinkAdapter.

Before customization -



e control is uniquely identifiable.

ontent View

No content available

There is no Content View available for this control.

Identify by Properties

Representation

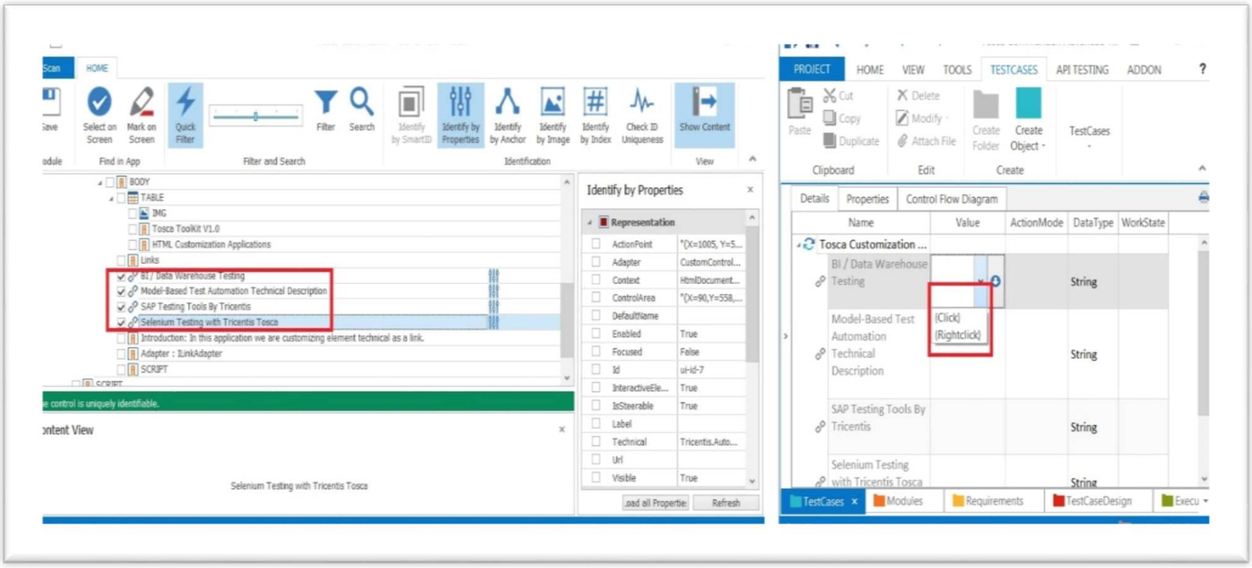
ActionPoint	"{X=1005, Y=5...
Adapter	Tricentis.Auto...
Context	Tricentis.Auto...
ControlArea	"{X=90,Y=558,...
DefaultName	H3
Enabled	True
Focused	False
Id	ui-id-7
InteractiveEle...	False
IsSteerable	True
Technical	Tricentis.Auto...
Visible	True

Technical

ClassName	ui-accordion-he...

Name	Value	ActionMode	DataType	WorkState
Tosca Customization ...				
H3			String	
H3			String	
H3			String	
H3			String	

After customization -



e control is uniquely identifiable.

ontent View

Selenium Testing with Tricentis Tosca

Identify by Properties

Representation

ActionPoint	"{X=1005, Y=5...
Adapter	CustomControl...
Context	HtmlDocument...
ControlArea	"{X=90,Y=558,...
DefaultName	
Enabled	True
Focused	False
Id	ui-id-7
InteractiveEle...	True
IsSteerable	True
Label	
Technical	Tricentis.Auto...
Url	
Visible	True

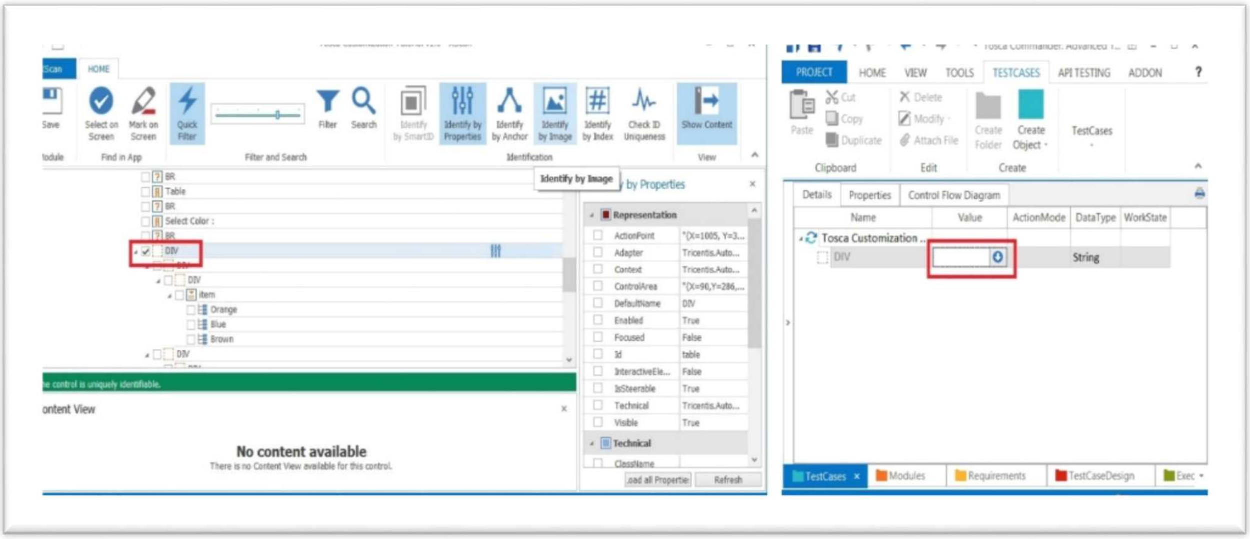
Name	Value	ActionMode	DataType	WorkState
Tosca Customization ...				
BI / Data Warehouse Testing			String	
Model-Based Test Automation Technical Description	{Click} {Rightclick}		String	
SAP Testing Tools By Tricentis			String	
Selenium Testing with Tricentis Tosca			String	

2.5 Table with embedded dropdown

In Table with embedded dropdown we customize a div technical as a table. This Custom Control will use three Adapters and two Controllers.

- ITableAdapter for table container
- ITableRowAdapter for row and
- ITableCellAdapter for cell
- TableContextAdapterController
- TableRowContextAdapterController

Before customization

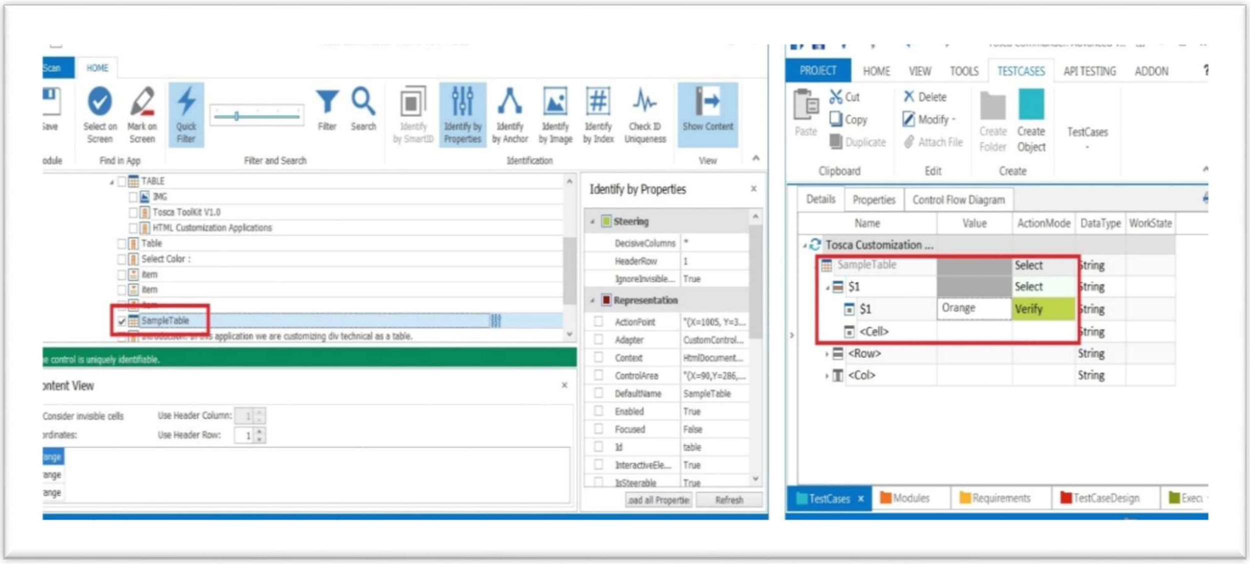


Name	Value	ActionMode	DataType	WorkState
Tosca Customization ...				
DIV			String	

No content available

There is no Content View available for this control.

After customization



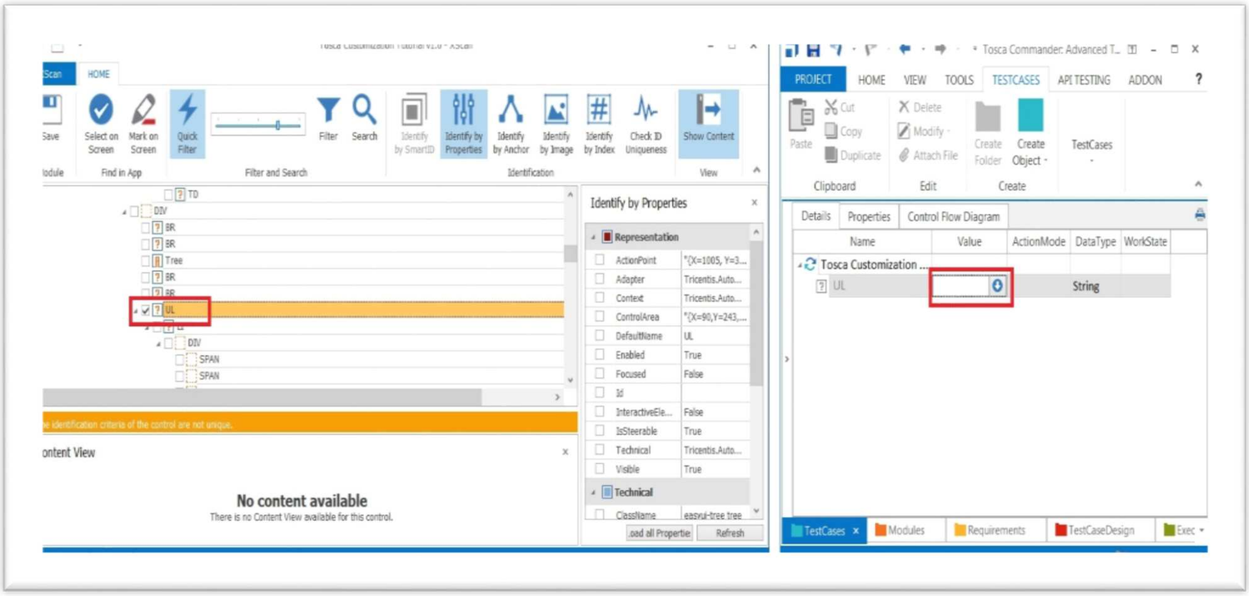
Name	Value	ActionMode	DataType	WorkState
Tosca Customization ...				
SampleTable		Select	String	
$1		Select	String	
$1	Orange	Verify	String	
<Cell>			String	
<Row>			String	
<Col>			String	

2.6 Folder Structure to Tree

In Folder structure to Tree we customize an Element technical as a tree and div as a tree node. This Custom Control use two Adapters and two Controllers -

- ITreeAdapter for tree container
- ITreeNodeAdapter for tree nodes
- TreeContextAdapterController
- TreeNodeContextAdapterController

Before customization



TD
DIV
BR
BR
Tree
BR
BR
☑ UL
DIV
SPAN
SPAN

e identification criteria of the control are not unique.

ontent View

No content available

There is no Content View available for this control.

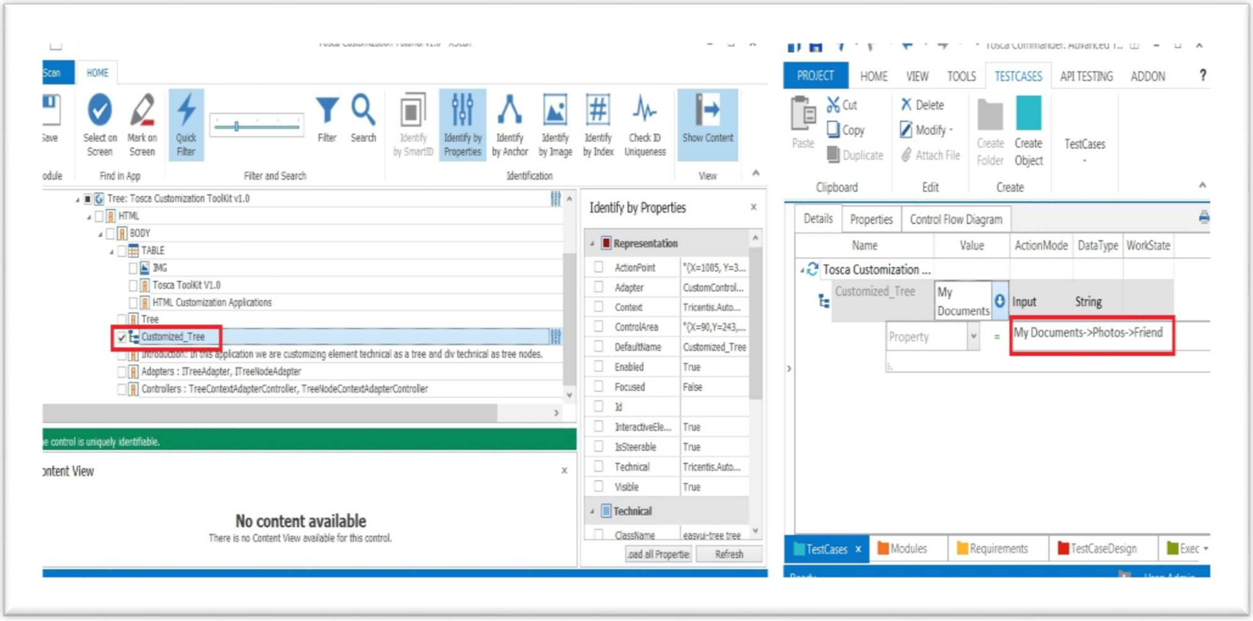
Identify by Properties

Representation	
□ ActionPoint	"{X=1005, Y=3...
□ Adapter	Tricentis.Auto...
□ Context	Tricentis.Auto...
□ ControlArea	"{X=90,Y=243,...
□ DefaultName	UL
□ Enabled	True
□ Focused	False
□ Id	
□ InteractiveEle...	False
□ IsSteerable	True
□ Technical	Tricentis.Auto...
□ Visible	True
Technical	
□ ClassName	easyui-tree tree

oad all Propertie | Refresh

Name	Value	ActionMode	DataType	WorkState
Tosca Customization ...				
UL			String	

After customization



Tree: Tosca Customization ToolKit v1.0
HTML
BODY
TABLE
IMG
Tosca ToolKit V1.0
HTML Customization Applications
Tree
☑ Customized_Tree
Introduction: In this application we are customizing element technical as a tree and div technical as tree nodes.
Adapters : ITreeAdapter, ITreeNodeAdapter
Controllers : TreeContextAdapterController, TreeNodeContextAdapterController

e control is uniquely identifiable.

ontent View

No content available

There is no Content View available for this control.

Identify by Properties

Representation	
□ ActionPoint	"{X=1005, Y=3...
□ Adapter	CustomControl...
□ Context	Tricentis.Auto...
□ ControlArea	"{X=90,Y=243,...
□ DefaultName	Customized_Tree
□ Enabled	True
□ Focused	False
□ Id	
□ InteractiveEle...	True
□ IsSteerable	True
□ Technical	Tricentis.Auto...
□ Visible	True
Technical	
□ ClassName	easyui-tree tree

oad all Propertie | Refresh

Name	Value	ActionMode	DataType	WorkState
Tosca Customization ...				
Customized_Tree	My Documents	Input	String	

Property = My Documents->Photos->Friend

3.0 Add-Ons

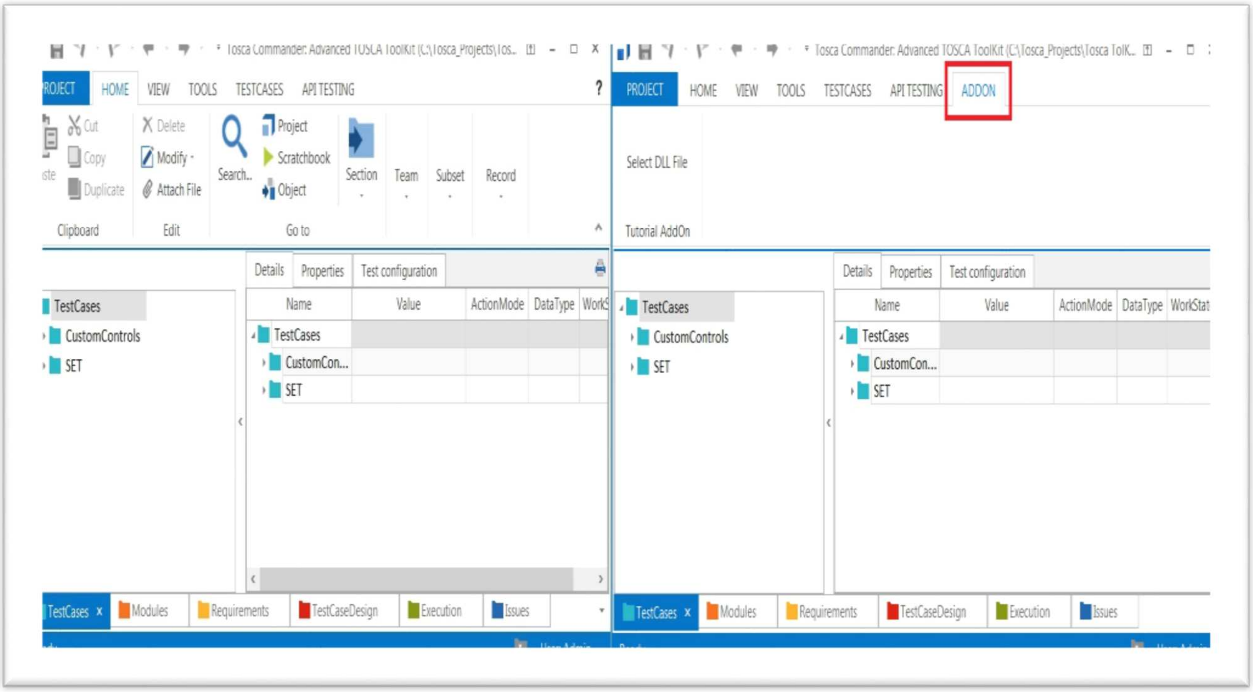
The Tosca Add-ons allows to individualize and extend the Tosca Commander by New Tasks, Drop Tasks and Ribbon menu items. In order to create a Tosca AddOn a new .NET assembly which references the two assemblies "TCAddOn" and "TCAPIObjects" must be created. Tosca Advanced Toolkit package contains three Add-Ons. They are:

3.1 Ribbon Task

In order to run an application in Tosca, firstly the application's dll file needs to be copied and pasted into Tricentis_Home (C:\Program Files (x86)\TRICENTIS\Tosca Testsuite).

To make this process easy we created an addOn on Tosca, which selects the dll file, closes the Tosca and pastes that file in Tosca Testsuite and opens the same workspace in Tosca again.

Below image demonstrate the Tosca commander before ribbon task Addon and after Addon, select dll option is easily available to user.



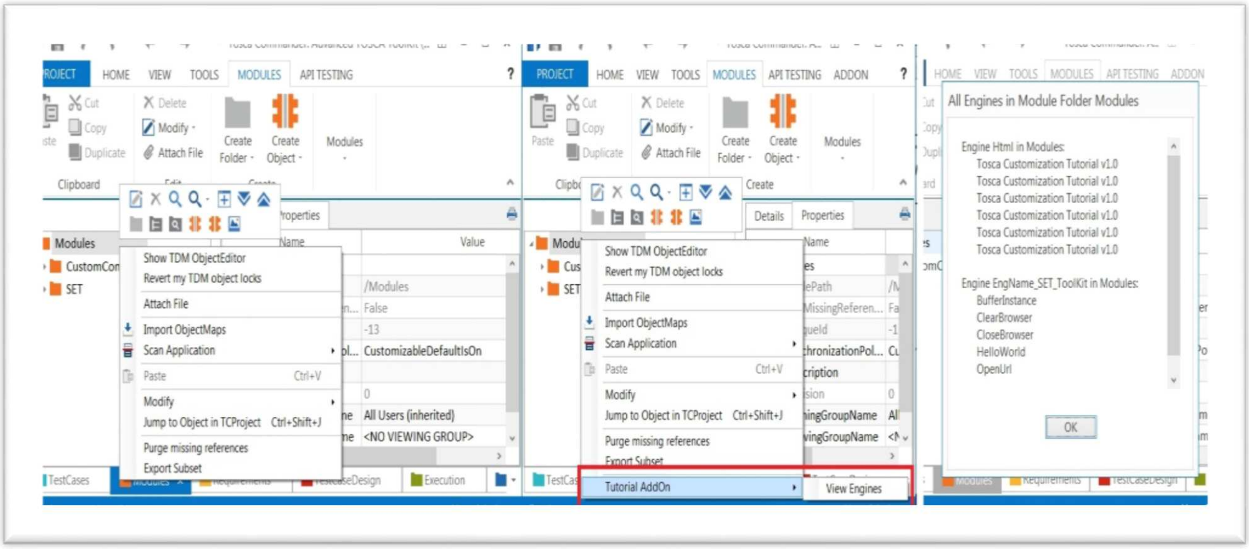
3.2 Drag Drop

This AddOn is used to drag and drop the Tosca Commander folder. When we drag the XModule, for dropping it give us two choices either it can create a testcase from teststep or it creates the teststep and drop that Xmodule.

3.3 Context Menu Task

This AddOn gives all the engine names present in module folder by right click on folder and choose Tutorial Addon and then go for View Engines.

Below image demonstrate the Tosca commander before context menu task Addon and after Addon, user is able to check the Engine Names and modules in folder.



All Engines in Module Folder Modules

```
Engine Html in Modules:
    Tosca Customization Tutorial v1.0
    Tosca Customization Tutorial v1.0
    Tosca Customization Tutorial v1.0
    Tosca Customization Tutorial v1.0
    Tosca Customization Tutorial v1.0
    Tosca Customization Tutorial v1.0

Engine EngName_SET_ToolKit in Modules:
    BufferInstance
    ClearBrowser
    CloseBrowser
    HelloWorld
    OpenUrl
```

End of Document