

Tutorial

Tricentis Tosca Testsuite



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1 Survey

Tosca Tutorial, version: 03.11.2016

1.1 Tosca Commander™ Tutorial

The Tosca Commander™ Tutorial is a guide to become acquainted with the elementary processes in Tosca. It is primarily aimed at beginners, who want to learn how to use the basic functions of Tosca in self-study.

1.2 Legal notice

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2 Tosca Tutorial

The purpose of this tutorial is to become acquainted with the basic functions in Tosca Commander™. You will create a test case for the **Tricentis Vehicle Insurance Application** (<http://sampleapp.tricentis.com>) and you will then execute this test case.

Chapter overview

We recommend that you go through this tutorial chapter by chapter in the given order since the contents are explained step by step:

- In [chapter 3 "Preconditions for working through the Tutorial"](#) you will find software requirements and browser settings that need to be specified.
- Chapter ["Definition of Terms for the Tosca Commander™ Objects"](#) provides you with basic terms in Tosca and shows you how to build test cases.
- In [chapter 5 "Starting Tosca Commander"](#) you will learn how to start Tosca Commander, how to open the tutorial, how Tosca workspaces look like and how to work with Tosca Commander.
- In [chapter 6 "The Tricentis Sample Application"](#) we will explain the Tosca sample application to you.
- Chapter ["Creating Modules"](#) illustrates why you need modules, and you will also create your own modules for your test case.
- In [chapter 8 "Creating TestCases"](#) we will explain how to build and manage test cases in Tosca, and you will create your first test case and add test steps.
- Chapter ["Executing TestCases"](#) provides you with a detailed description of execution lists and the Scratchbook. Here you will create an execution list for your test case.

Help

If you would like to open the Tosca Manuals online, simply press the F1 key in Tosca Commander. In our Support Portal you can either browse through the Online Help or you can download the Tosca Manuals as PDF versions.

Useful links that may be of interest to you

- [Webinars](#)
- [Online Training](#)

3 Preconditions for working through the Tutorial

In order to go through this tutorial you need:

- A complete default installation of Tricentis Tosca Testsuite along with a valid license
- Microsoft® Internet Explorer 9 or later and zoom settings set to 100% (see also the System Requirements for Tricentis Tosca Testsuite).
- A stable internet connection to be able to view all the contents that are related to this tutorial.

Paths

All specified paths refer to a default installation on drive C:\ with the default paths recommended by Tosca.

- Tosca program files %TRICENTIS_HOME%: C:\Program Files\TRICENTIS\Tosca Testsuite, or C:\Program Files (x86)\TRICENTIS\Tosca Testsuite
- Tosca Commander™ project files %TRICENTIS_PROJECTS%: C:\Tosca_PROJECTS\

4 Definition of Terms for the Tosca Commander™ Objects

This chapter provides you with definitions of the basic terms in Tosca and it outlines how TestCases are structured in Tosca.

In this tutorial you will create Modules and a TestCase with TestSteps, and finally you will run your TestCase.

A **TestCase** consists of several **TestSteps** which determine the test process. Each TestStep maps one page of the Tricentis sample application (also known as "the **test object**"). TestSteps are processed in sequential order ([see chapter 8 "Creating TestCases"](#)).

You specify your **test data** in the **TestStepValues** of the TestSteps. Test data are data which are used in the application upon test execution. This is for instance the case when a specific text is written to an input field, or when a button is clicked.

Automated TestSteps are based on **Modules**. Modules contain **technical information** which is used to identify and steer screen items. These items can for instance be buttons or input fields. Tosca creates a **ModuleAttribute** for each item and saves this to the Module ([see chapter 7 "Creating Modules"](#)).

In Tosca, test data are separated from technical steering information. This allows Modules to be used repeatedly to create various TestSteps for any number of TestCases in order to test a variety of data.

ExecutionLists enable you to run your TestCases and to log the results of the test execution ([see chapter 9 "Executing TestCases"](#)).

Icon	Object	Description
	Modules	Represent the technical steering information
	TestCases	Determine the test sequence and contain test data
	ExecutionLists	Serve to plan and manage the test execution

Table 1: Objects in Tosca Commander™

Object hierarchy

All objects in Tosca Commander are arranged in a strict hierarchical structure. This object hierarchy must be kept when objects are either copied or moved around. This means for instance that TestCase folders cannot be copied to TestStep folders or Module folders ([see chapter "Drag and drop"](#)).

Related chapters

- [Tosca Commander Manual - chapter Managing workspaces \(Object hierarchy\)](#).

5 Starting Tosca Commander

TestCases are created, executed and organized in Tosca Commander™.



Start Tosca Commander™ via the Windows Start menu: Start->All Programs->Tricentis->Tosca Testsuite->Tosca Commander.

As soon as Tosca Commander is open, the start screen will be shown.

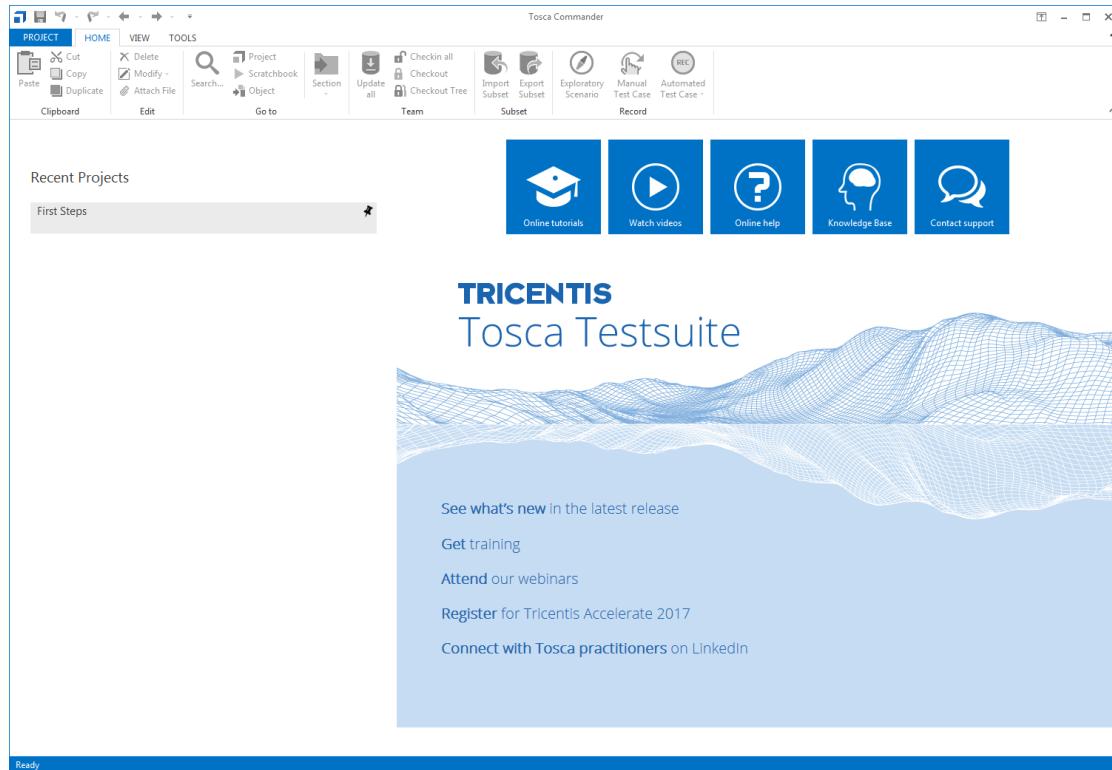


Illustration 1: Tosca Commander start screen

Creating workspaces

You need to create a workspace where you will manage your objects.



Select **Project->New** from the Tosca Commander™ menu to open the **Tosca Commander: Create new workspace** window.



Enter the name of your workspace into the **Select name for new workspace** field, e.g. **Tosca_Tutorial_en**.

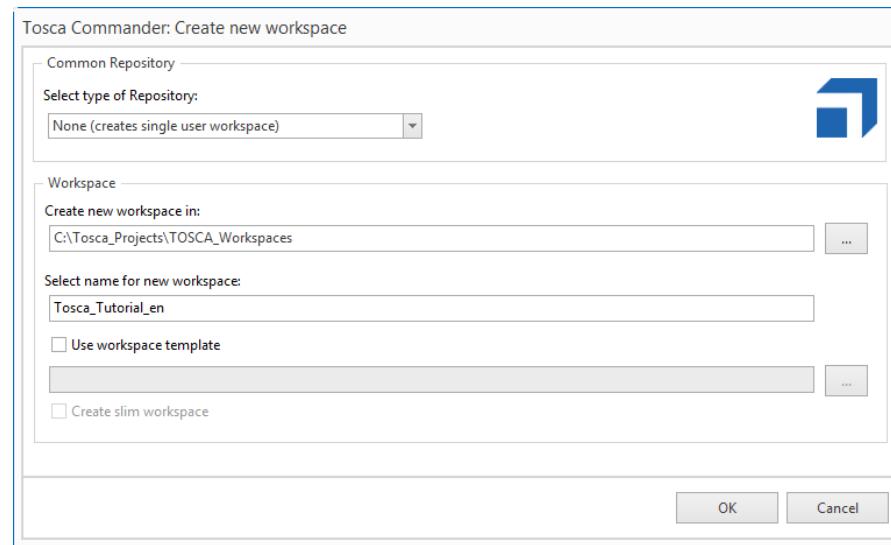


Illustration 2: Creating a new workspace

 Click on **OK** to create the workspace.

 In the next window, click on **Close**.

The workspace opens.

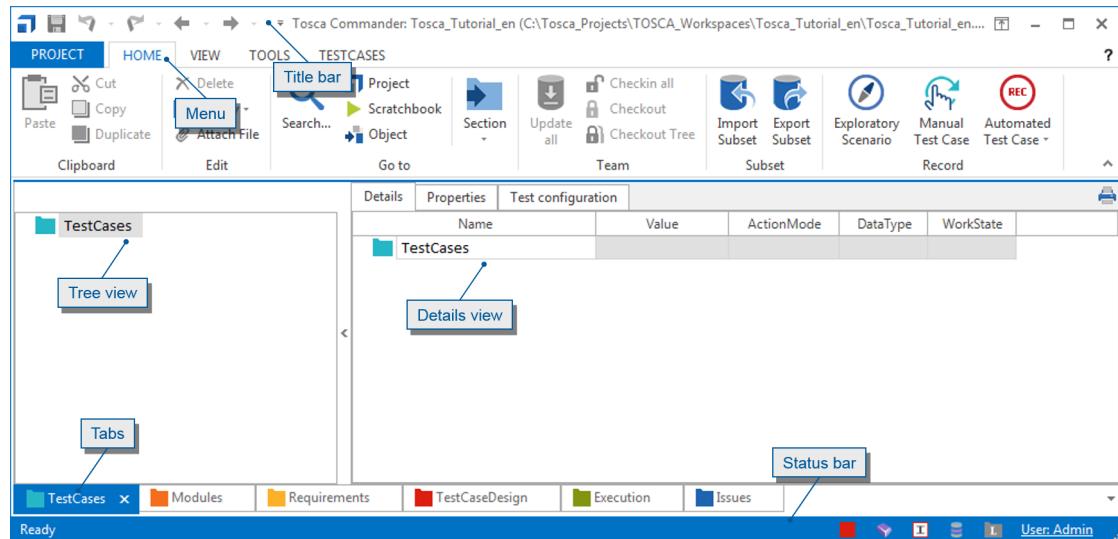


Illustration 3: Workspace

Tosca Commander™ is inspired by Microsoft Windows Explorer®, which means that all items are mapped in a tree structure. You can open any number of windows and display a freely definable section of this tree structure.

If you select an item in the tree view, Tosca will show the item details in the details view.



If the German user interface in Tosca Commander™ is active, you can change the language via the following menu entry: **Project->Options->Ansicht->Sprache**. Set option **Sprache** to **English**. Tosca Commander must be restarted so that the changes take effect.

Title bar

The title bar in Tosca Commander shows the name of the currently open workspace.

The title bar also includes the quick access toolbar which provides you with options such as **Save**, **Undo**, etc.

Menu (Ribbon)

The menu is designed in the form of ribbons and consists of several tabs which allow you to access the corresponding Tosca Commander functions. These functions are either enabled or disabled, depending on the context you are working in.

If you switch between the windows of the various sections ([see chapter "Windows and tabs"](#)) or if you select objects within the sections, Tosca will open up an additional tab for this section that includes a dynamic menu. The dynamic menu shows relevant options for the selected section or object.

A dynamic menu is available for the following sections in Tosca Commander: TestCases, Modules, Requirements, TestCaseDesign, Execution and Reporting. Within the Execution section, a dynamic menu is available for the subsections ExecutionLists and Exploratory Testing.

Status bar

The status bar shows the action that is currently performed by Tosca Commander.

Windows and tabs

Each object type (e.g. TestCases, Modules, etc.) of the Tosca Commander workspace has its own window. At the bottom of each window you can see a tab for each window. Please feel free to arrange the windows according to your needs.



Go to the **Home** menu and click on **Section->Modules** to open a new Modules window.



Left-click onto the title bar of the **Modules** window and drag the window onto the icon in the right section of the window as shown in the picture below.

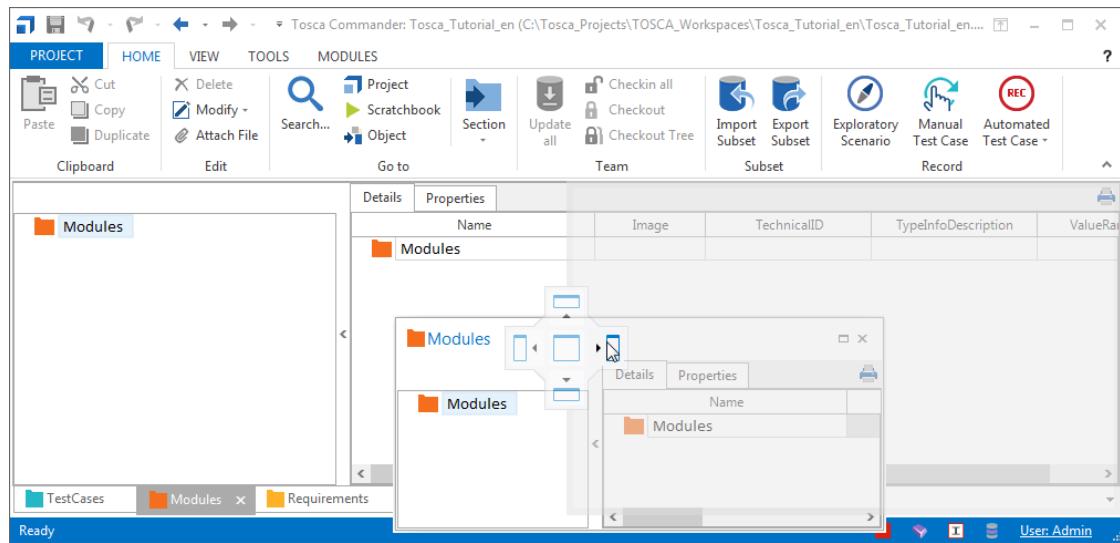


Illustration 4: Arranging windows in the workspace

In this example we will insert the **Modules** window right next to the **TestCases** window:

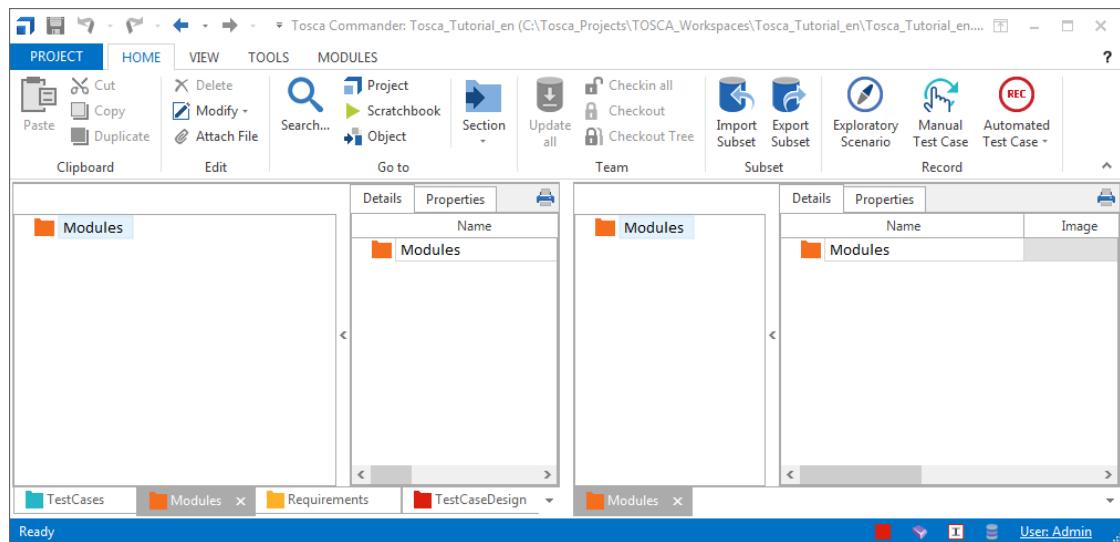


Illustration 5: Two windows

In Tosca you can modify the tabs order at the bottom of the window and you can drag tabs to other windows, as you like.



Click on the **Execution** tab in the left window.



Right-click onto the **ExecutionLists** folder and select the option **Open in new window**.

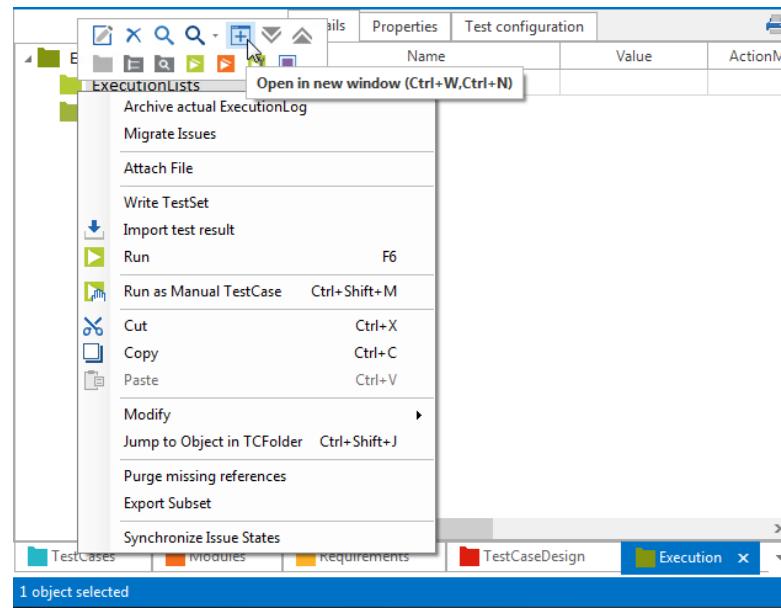
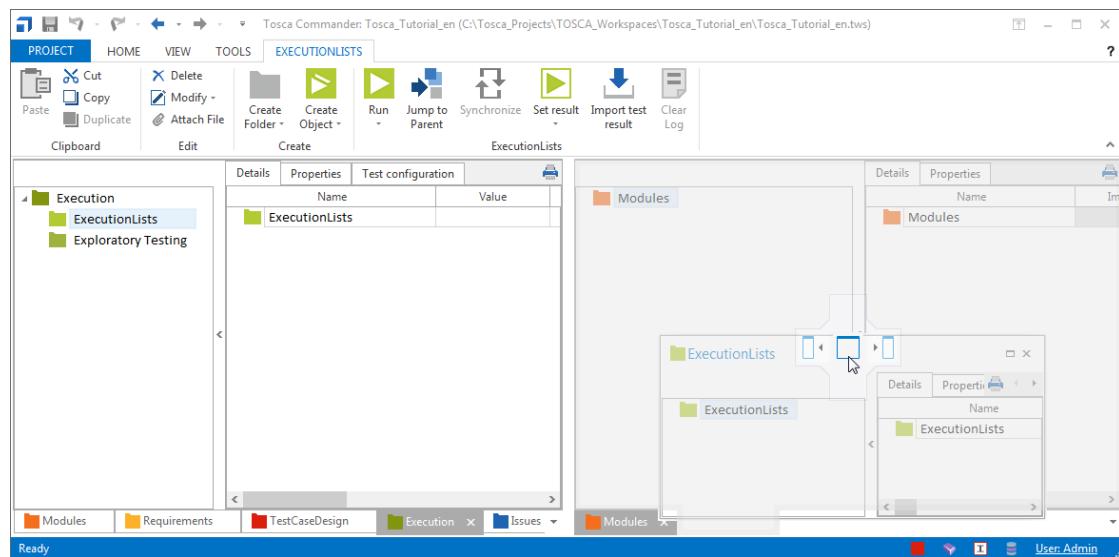


Illustration 6: Open in new window option

The **ExecutionLists** window opens.



Drag the **ExecutionLists** window onto the **Modules** window and drop it there.

Illustration 7: Moving the **ExecutionLists** window

You can also use the tabs to rearrange your workspace windows: simply click on the tab you would like to move and drag this to the position of your choice.

Click on the **x** sign to close tabs you don't need.



Close both the **Modules** and the **Execution** tab in the left window.

The windows and tabs in your workspace should now look like in the picture shown below since this is the view we will be working with in this tutorial.

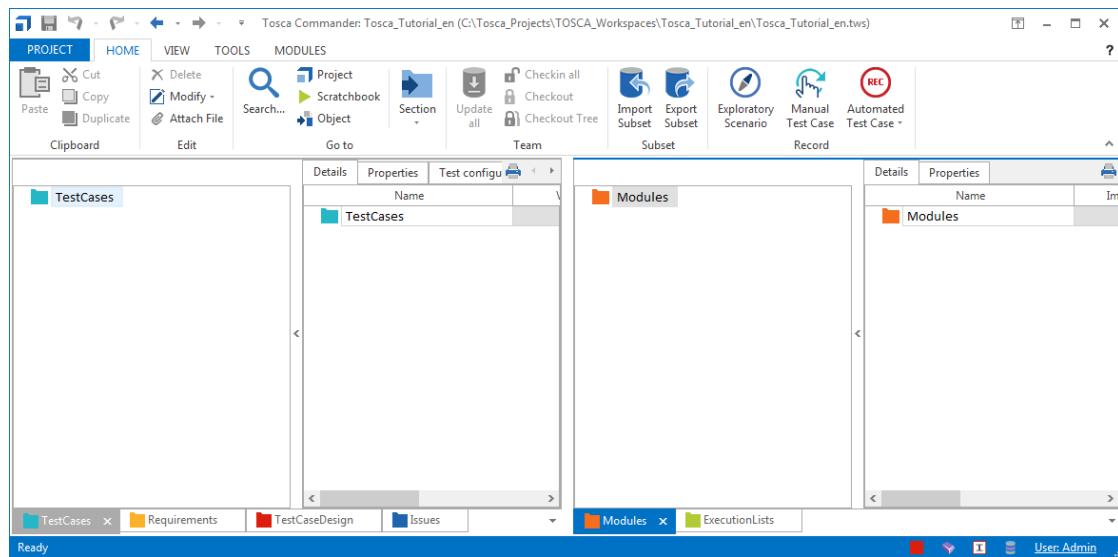


Illustration 8: Recommended view

Perspectives

In Tosca you can arrange any open windows as you like and you can save your customized view as **Perspective**. So, if you accidentally change your window arrangements you can easily restore your preferred view.

Go to the **View** menu and select **Manage->Save...** from the Perspectives section to save your current perspective. The option **Manage->Select** enables you to select either the default perspective or one of your saved perspectives if you created some.

Tree view

In Tosca you can hide the tree view if necessary. Simply click on the vertical line between the two window sections.

If you click once again onto the vertical divider line, the tree view will be shown again.

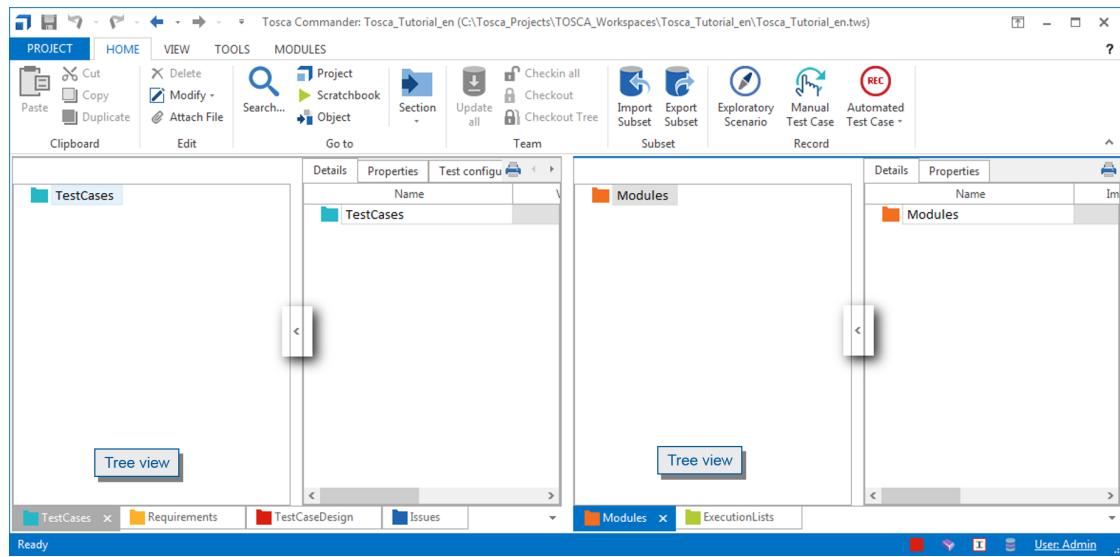


Illustration 9: Tree view is visible

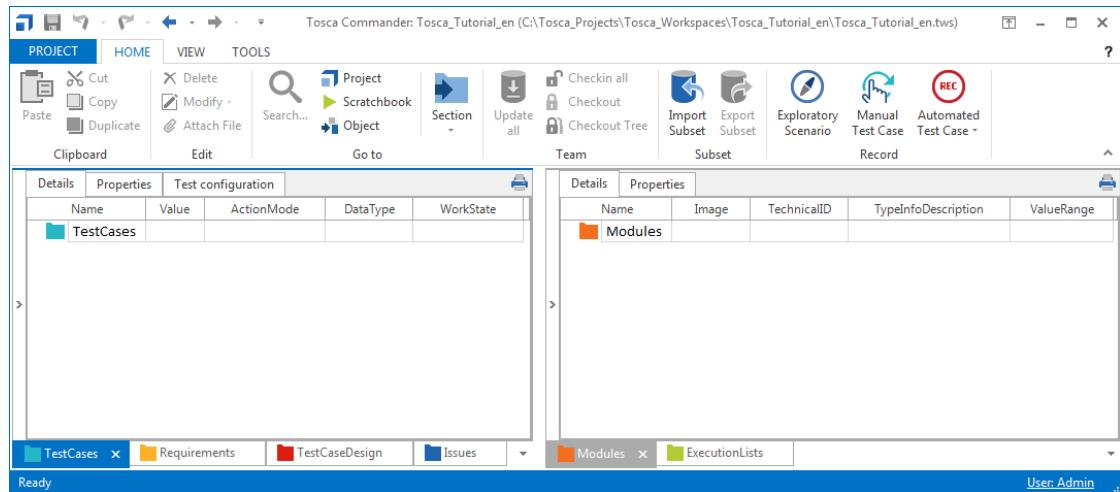


Illustration 10: Hidden tree view

You can resize your workspace windows if required: left-click onto the divider line, hold the mouse button down and move the vertical divider line to your preferred position.

Project window

The project window provides you with an overview of your entire project (**Home->Project**). This shows all workspace objects in a tree view starting from the project root element which is named **Tosca_Tutorial_en** in this tutorial.

Context menu and mini toolbar

In Tosca you are able to process workspace objects via the context menu or the dynamic menu. The context menu provides you with the options that are relevant

for the respective object.

Open the context menu by right-clicking on any object in the workspace.

The upper part of the context menu includes a mini toolbar. This is part of the context menu and it contains options that are frequently used, such as **Delete** , **Rename**  and options for creating new objects. Hover over the icons in the mini toolbar to view the option name in the tooltip.



Go to the **TestCases** section. Right-click on the **TestCase** folder **TestCases** and select the option **Create Folder** from the mini toolbar.

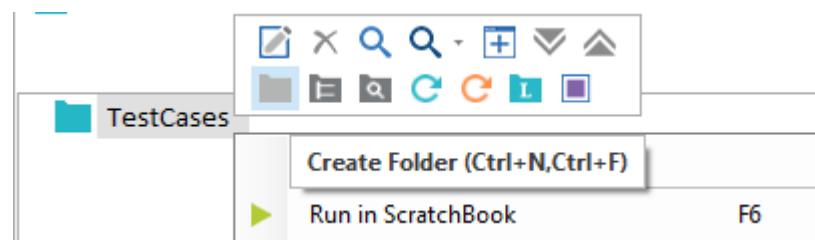


Illustration 11: Creating a new folder



Rename the new **TestCase** folder to **My first TestCase**.



Right-click on the **TestCase** folder **My first TestCase** and select the option **Create Folder** from the mini toolbar.



Rename the new **TestCase** folder to **Vehicle Insurance**.

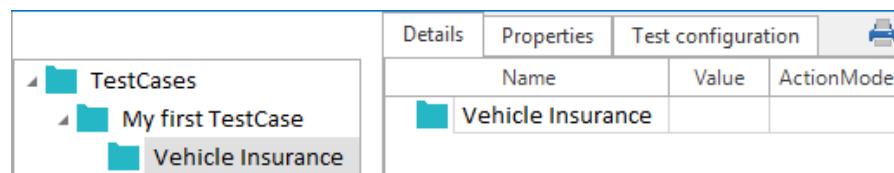


Illustration 12: New **TestCase** folder **Vehicle Insurance**



TestCase folders can be renamed at any point in time. Simply select the option **Rename** from the context menu.

Create a copy of the **TestCase** folder **Vehicle Insurance** beneath the **TestCase** folder.



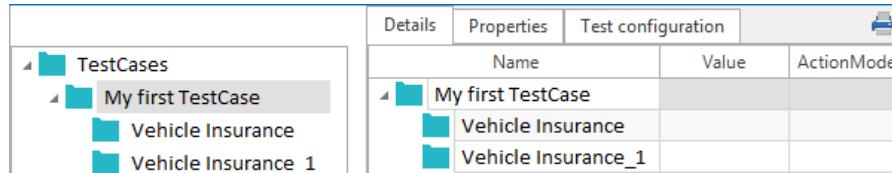
Right-click on the **Vehicle Insurance** folder and select the option **Copy** from the context menu.

The copy must be created within the **TestCase** folder **My first TestCase** so that this is located on the same level like the **TestCase** folder **Vehicle Insurance**.



Select the option **Paste** from the context menu of the TestCase folder **My first TestCase**.

Tosca automatically assigns the name **Vehicle Insurance_1** to the newly created copy.



		Details	Properties	Test configuration	
		Name	Value	ActionMode	
▲	TestCases	My first TestCase			
▲	My first TestCase	Vehicle Insurance			
		Vehicle Insurance_1			

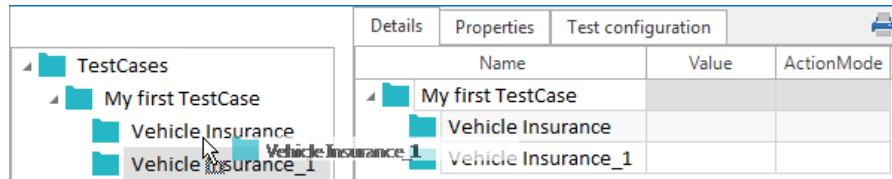
Illustration 13: Vehicle Insurance_1 folder

Drag and drop

In Tosca Commander you can perform various operations by using drag and drop.



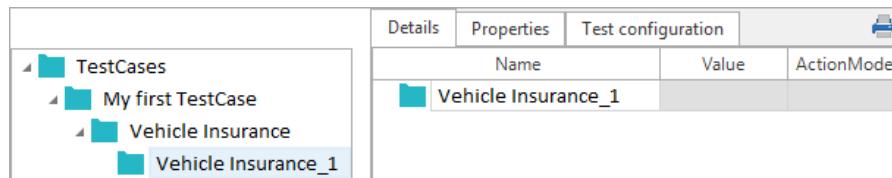
Left click on the TestCase folder **Vehicle Insurance_1** and keep the mouse button pressed. Without releasing the mouse button, drag the TestCase folder **Vehicle Insurance_1** over the TestCase folder **Vehicle Insurance**. Release the mouse button as soon as the cursor is located on the TestCase folder **Vehicle Insurance**.



		Details	Properties	Test configuration	
		Name	Value	ActionMode	
▲	TestCases	My first TestCase			
▲	My first TestCase	Vehicle Insurance			
▲	Vehicle Insurance	Vehicle Insurance_1			
		Vehicle Insurance_1			

Illustration 14: Moving TestCase folders by using drag and drop

As you can see, TestCase folder **Vehicle Insurance_1** is now located beneath the TestCase folder **Vehicle Insurance**:



		Details	Properties	Test configuration	
		Name	Value	ActionMode	
▲	TestCases	Vehicle Insurance_1			
▲	My first TestCase				
▲	Vehicle Insurance				
		Vehicle Insurance_1			

Illustration 15: TestCase folder **Vehicle Insurance_1** as a subfolder

Since you don't need TestCase folder **Vehicle Insurance_1** any longer you can delete this as follows:



Right-click onto the TestCase folder **Vehicle Insurance_1** and select the option **Delete** from the mini toolbar.

In the next step, try to move the TestCase folder **Vehicle Insurance** to the Modules folder **Modules**.

-  Drag the TestCase folder **Vehicle Insurance** onto the Modules folder **Modules**.

Tosca will prevent  this operation since TestCase folders may only be positioned hierarchically beneath **TestCase** folders (see also [chapter "Object hierarchy"](#)).

Editing columns

In the details view you can add columns, move or remove them, as required.

-  Use drag and drop to move the **DataType** column to the right of the **Workstate** column. Two arrows mark the position where the column will be inserted.

Details	Properties	Test configuration	Name	Value	ActionMode	DataType	WorkState	
			Vehicle Insurance					 

Illustration 16: Moving a column

-  Right-click onto the header of a column, and select the option **Column Chooser** from the context menu. A window opens containing a list of available columns.

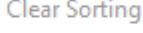
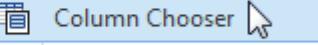
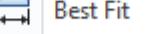
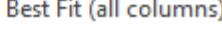
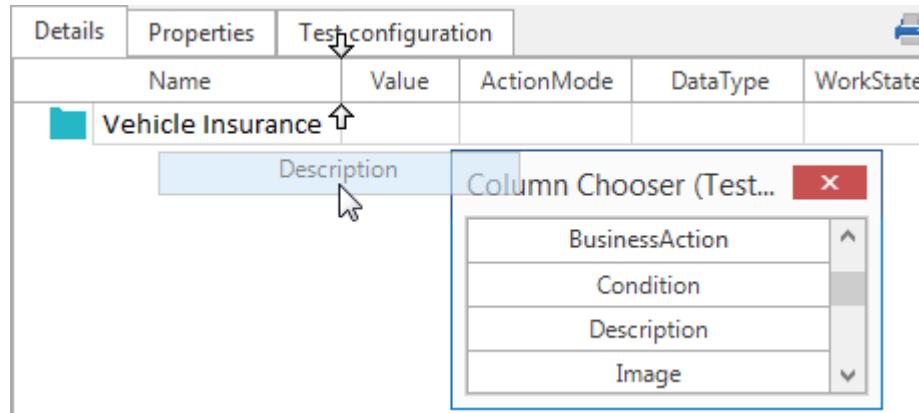
Details	Properties	Test configuration	Name	Value	ActionMode	
			Vehicle Insurance			  Column Chooser  Best Fit  Best Fit (all columns)

Illustration 17: Opening the Column Chooser

-  Use drag and drop to move the entry **Description** to the required column position. Two arrows mark the position where the new column will be inserted.

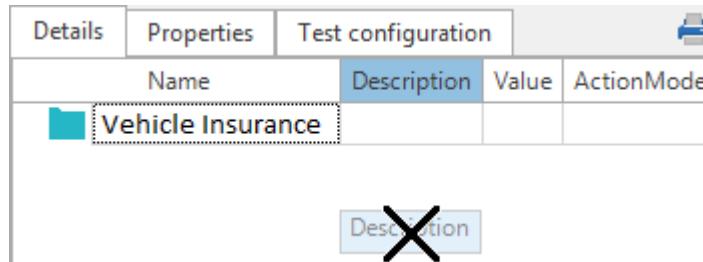


Name	Value	ActionMode	DataType	WorkState
Vehicle Insurance				

Illustration 18: Adding a column



Left-click onto the header of the **Description** column, keep the mouse button pressed and drag this column down until the cursor's shape turns into an X, then release the mouse button. The column is now removed from this view.



Name	Description	Value	ActionMode
Vehicle Insurance			

Illustration 19: Removing a column

Related chapters

- [Tosca Commander Manual - chapter Working with Tosca](#)
- [Tosca Commander Manual - chapter Creating and Managing Workspaces](#)
- [Tosca Commander Manual - chapter Managing workspaces \(Object hierarchy\)](#)

6 The Tricentis Sample Application

In this tutorial, the Tricentis sample application will serve as object to be tested, and you will use this application to create a TestCase.

The Tricentis sample application is a fictitious vehicle insurance premium calculator and can be used to create quotes for various vehicle types.



Open the Tricentis sample application at <http://sampleapp.tricentis.com>. Please make sure that you use Microsoft® Internet Explorer ([see chapter 3 "Preconditions for working through the Tutorial"](#)).

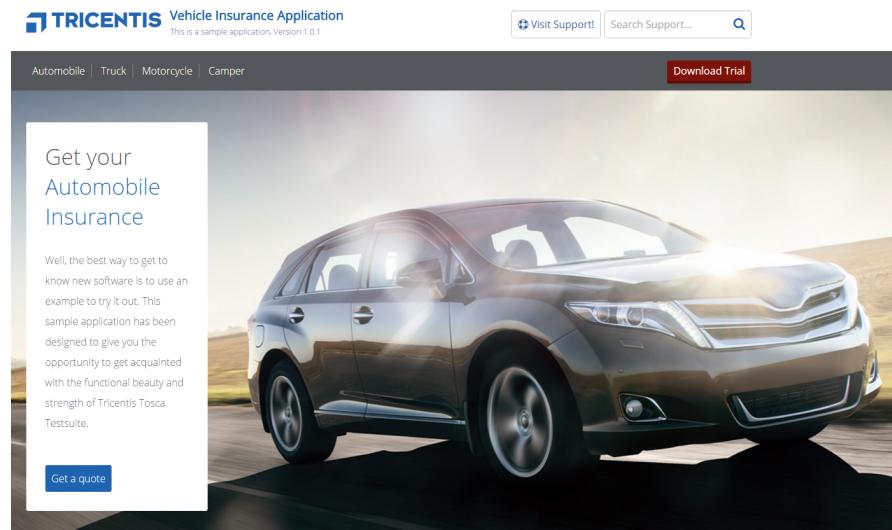


Illustration 20: Tricentis Sample Application: start screen



Click on the **Automobile** link in the navigation bar.

Now you can see the start screen of the vehicle insurance premium calculator which allows you to enter vehicle data. Mandatory fields are marked with an asterisk *.

Enter Vehicle Data **7** Enter Insurant Data Enter Product Data

Make	<input type="text" value="– please select –"/>	*
Engine Performance [kW]	<input type="text"/>	*
Date of Manufacture	<input type="text"/> MM/DD/YYYY 	*
Number of Seats	<input type="text" value="– please select –"/>	*
Fuel Type	<input type="text" value="– please select –"/>	*
List Price [\$]	<input type="text"/>	*
License Plate Number	<input type="text"/>	
Annual Mileage [mi]	<input type="text"/>	*

Next »

Illustration 21: Vehicle insurance premium calculator: entering vehicle data

Feel free to get yourself acquainted with the Tricentis sample application: enter some data into the input fields and click **Next**.



Click on **Home** in the submenu of the navigation bar to return to the start screen of the Tricentis sample application.

7 Creating Modules

If you would like to create an automated TestCase for the Tricentis sample application you need to create Modules which contain the required steering information ([see chapter 4 "Definition of Terms for the Tosca Commander™ Objects"](#)).

Your task in this tutorial is to build an automated TestCase which contains data for an automobile, and to create a quote for a vehicle insurance with these data. To gather all this information you need to create Modules for each screen of the Tricentis sample application ([see chapter 6 "The Tricentis Sample Application"](#)).

In Tosca we refer to the creation of Modules as **Scanning**. Tosca analyzes the screen contents and searches for steerable items. You can then select the items you need and create a **Module** in Tosca. The Module contains all information required for steering the relevant items.

-  Right-click on the Module folder **Modules** and select the option **Create Folder** from the mini toolbar. You can also click on the Module folder and select the icon  **Create Folder->Folder** from the dynamic menu **Modules**.
-  Assign the name **My first Modules** to the new Module folder.
-  Select the option **Create Folder** from the context menu of the Module folder **My first Modules**. You can also click on the Module folder and select the icon  **Create Folder->Folder** from the dynamic menu **Modules**.
-  Assign the name **Vehicle Insurance** to the new Module folder.

	Details	Properties		
		Name	ValueRange	Default DataType
		 Vehicle Insurance		

Illustration 22: Module folder **Vehicle Insurance**

Module 1: Start screen (Home)

The first page of the Tricentis sample application is the start screen. Please make sure that the start screen is open in your browser since Tosca always scans the screen that is currently available.

-  Click on **Home** in the navigation bar of the sample application to open the start screen.

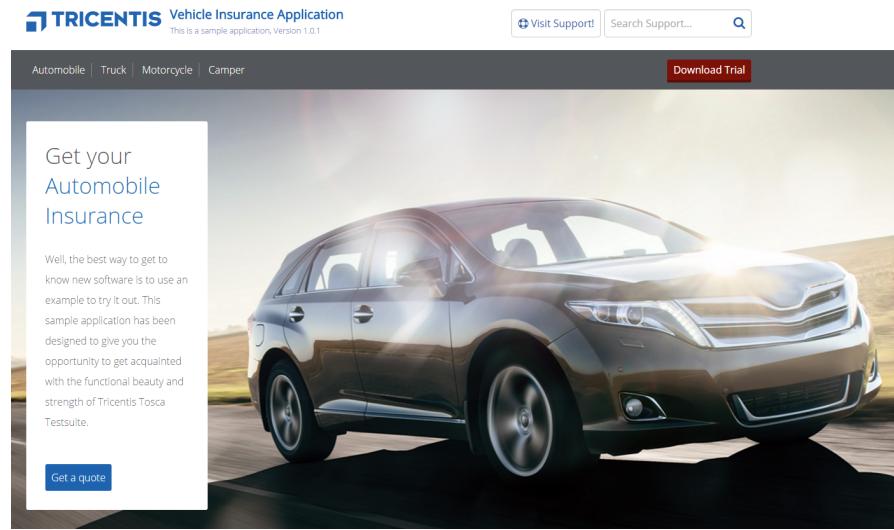


Illustration 23: Tricentis sample application: start screen

Now you're ready to scan this screen.



Return to Tosca Commander, go to the Modules window and right-click on the Module folder **Vehicle Insurance** you created earlier. Select the option **Scan Application->Desktop** from the context menu. You can also click on the Module folder and select the option from the dynamic menu **Modules**.

The **XScan** window opens:

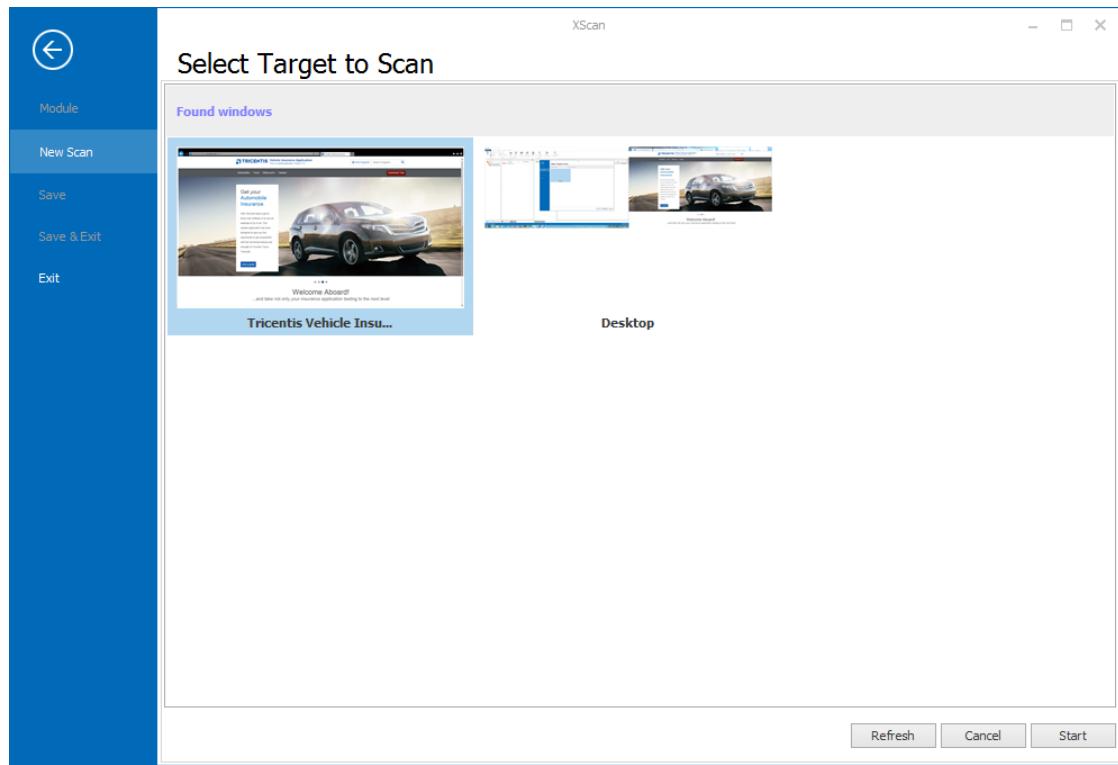


Illustration 24: XScan window

Tosca **XScan** loads all applications that are currently open.



Click on the window which shows the Tricentis sample application and then click on **Start** in the lower right corner of the XScan window.

Wait a few seconds while Tosca scans the screen.

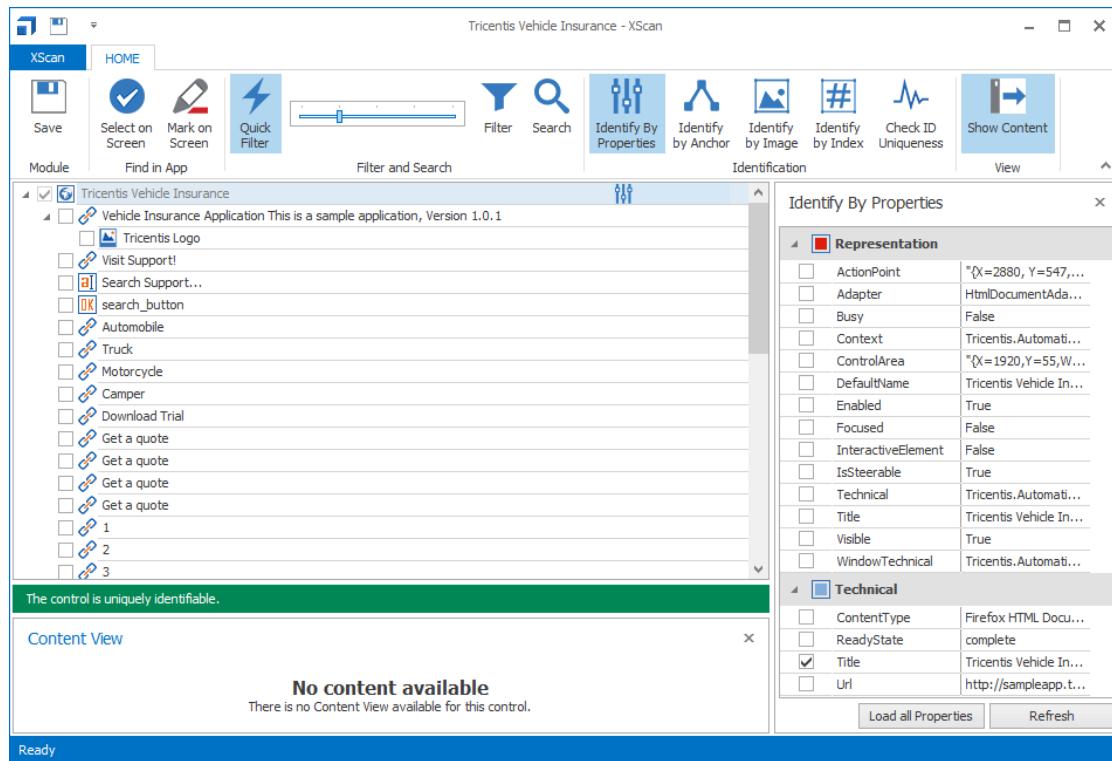


Illustration 25: Tosca XScan: Home screen

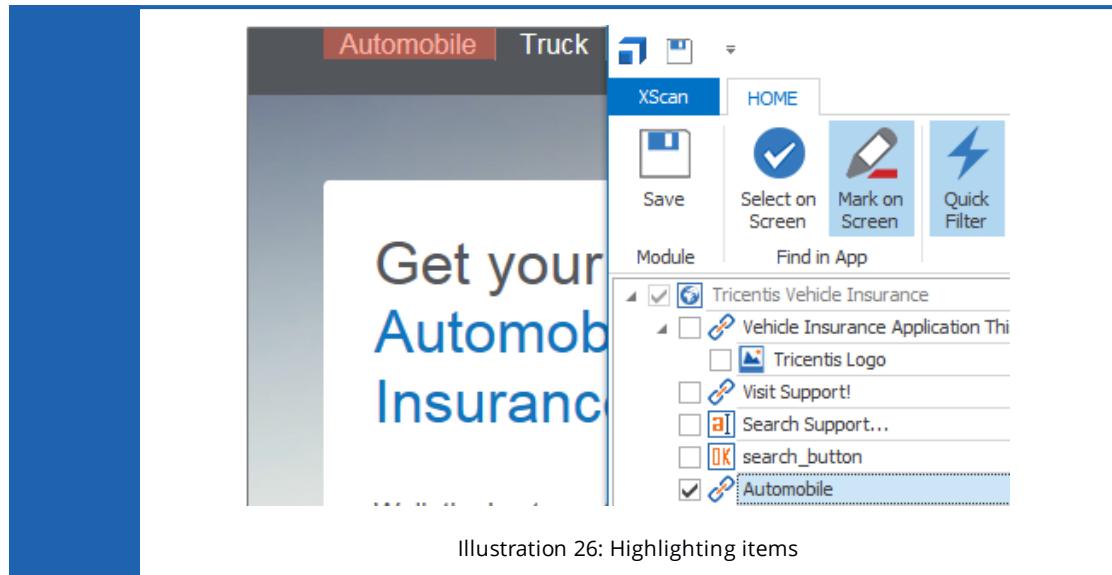
The **HOME** window now displays all items which were found during the scan process. Although a large amount of items and functions will be shown in the **XScan** window, most of them are not relevant for this example.

Search for the items that you need for your Module: The relevant item on the start screen is the **Automobile** link located in the navigation bar.

Enable the checkbox in front of an item to select this.



If you would like Tosca to help you identify the items in the **XScan** window and the browser, you can use the **Mark on Screen** function. Enable this option in the upper part of the XScan window and select an item from the tree. Tosca will then highlight this in red in the browser window.



Enable the checkbox next to the item **Automobile**.



Rename the root element **Tricentis Vehicle Insurance** to **Home**. The Module will then be saved under **Home**.

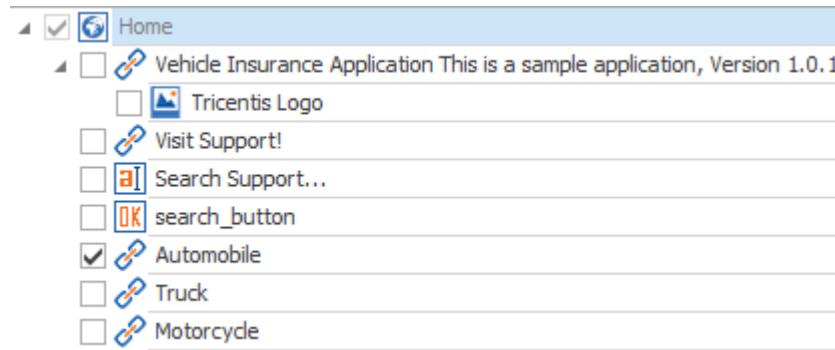


Illustration 27: Tosca XScan: selecting the relevant item **Automobile** of the start screen



Click on **Save** in the **XScan** window and close the window.

Tosca creates the Module **Home** in the Module folder **Vehicle Insurance**. The item **Automobile** you have selected earlier is now shown in the Module as **ModuleAttribute**. The Module holds any information that is required to click the link in the sample application.

	Details	Properties	
Name	ValueRange	Default DataType	
Vehicle Insurance			
Home			
Automobile	{Click};{Rightclick}	String	

Illustration 28: Home Module

You will need this Module later on for your TestCase ([see chapter 8 "Creating TestCases"](#)).



Switch to the Tricentis sample application and click the **Automobile** link on the start screen.

The **Vehicle data** screen appears.

Enter Vehicle Data	7	Enter Insurant Data	Enter Product Data
Make	– please select –	*	
Engine Performance [kW]		*	
Date of Manufacture	MM/DD/YYYY	*	
Number of Seats	– please select –	*	
Fuel Type	– please select –	*	
List Price [\$]		*	
License Plate Number			
Annual Mileage [mi]		*	
Next »			

Illustration 29: Vehicle data screen

Module 2: Vehicle data

Now you will create a Module for the vehicle data screen.



Right-click on the Module folder **Vehicle Insurance** and select **Scan Application->Desktop** from the context menu. You can also click on

the Module folder and select the option from the dynamic menu **Modules**.

The **XScan** window opens.



Click on the browser tab which shows the Tricentis sample application and then click on **Start** in the lower right corner of the XScan window.

Wait a few seconds while Tosca scans the screen. The **HOME** window shows all items found upon scanning. Search for the items that are relevant for your Module:



Select the items to be included in the Module as shown in the illustration below.



Assign the following meaningful name to the root element: **Vehicle data**.

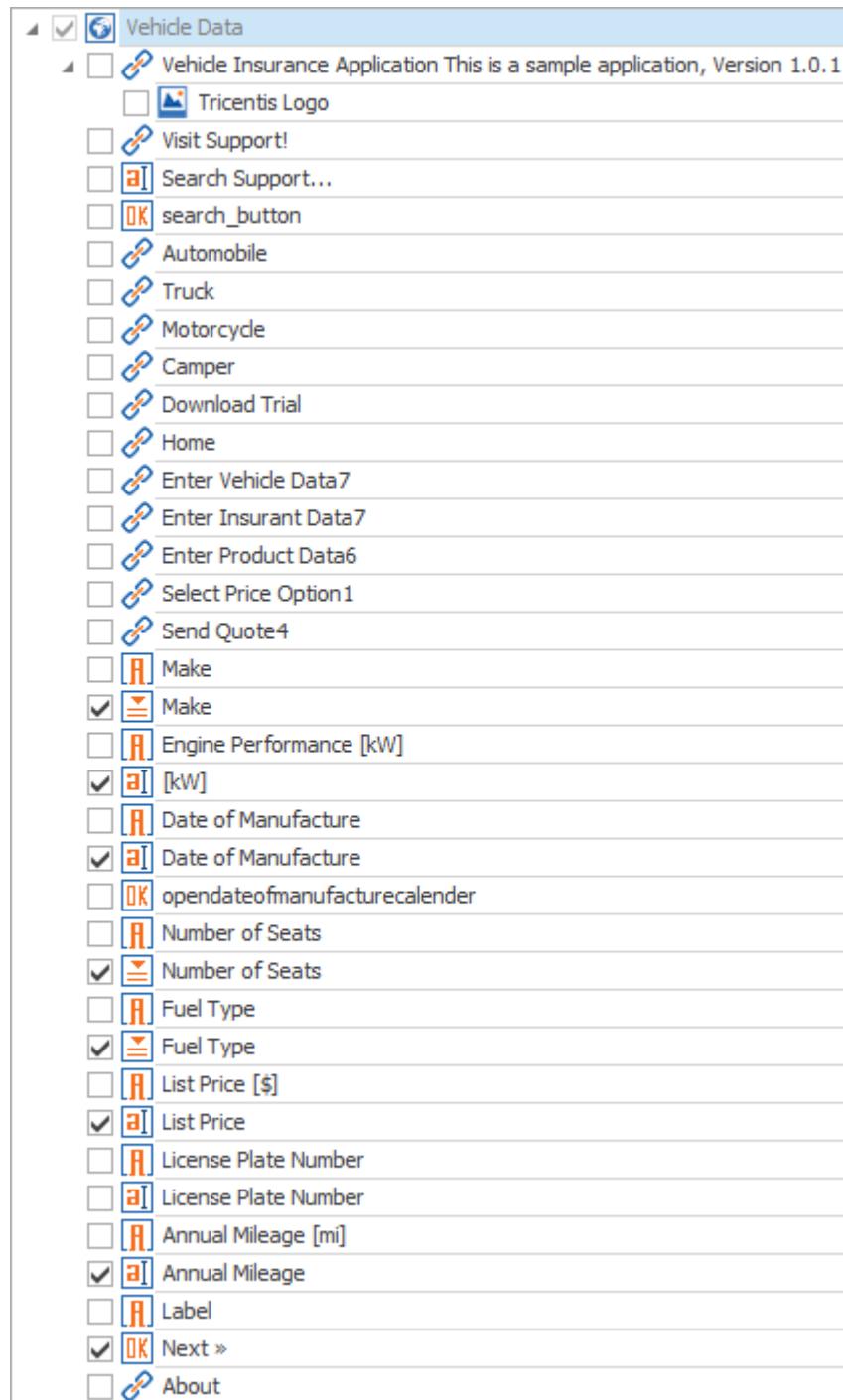


Illustration 30: Tosca XScan: relevant items for the Vehicle data Module



Click on **Save** in the XScan window and close the window.

Tosca creates the **Vehicle data** Module in the Module folder **Vehicle Insurance** and adds all items you have selected in the XScan window as ModuleAttributes.



Switch to the Tricentis sample application, enter the data as shown in the illustration below and click on **Next**.

Enter Vehicle Data 0 Enter Insurant Data Enter Product Data

Make	Mazda	✓
Engine Performance [kW]	65	✓
Date of Manufacture	01/11/2012	✓
Number of Seats	5	✓
Fuel Type	Petrol	✓
List Price [\$]	19000	✓
License Plate Number		
Annual Mileage [mi]	21000	✓

Next »

Illustration 31: Entering vehicle data

The **Insurant** screen appears.

Enter Vehicle Data	Enter Insurant Data 7	Enter Product Data
First Name	<input type="text"/>	*
Last Name	<input type="text"/>	*
Date of Birth	<input type="text"/> MM/DD/YYYY 	*
Gender	<input type="radio"/> Male <input type="radio"/> Female	
Street Address	<input type="text"/>	
Country	<input type="text"/> – please select –	*
Zip Code	<input type="text"/>	*
City	<input type="text"/>	

Illustration 32: **Insurant** data screen (partial view)

Module 3: Insurant

Now you will create a Module for the **Insurant** screen.



Right-click on the Module folder **Vehicle Insurance** and select **Scan Application->Desktop** from the context menu. You can also click on the Module folder and select the option from the dynamic menu **Modules**.

The **XScan** window opens.



Click on the browser tab which shows the Tricentis sample application and then click on **Start** in the lower right corner of the XScan window.

Wait a few seconds while Tosca scans the screen.



Enable the option **Select on Screen** in Tosca XScan. This will help you select the correct items with ease.

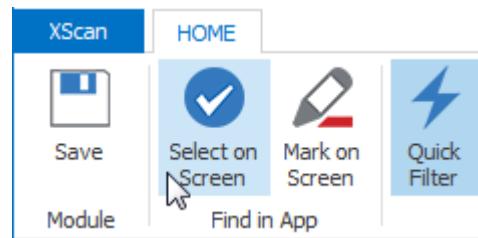


Illustration 33: Tosca XScan: Select on Screen

The **Select your controls on the screen** window opens:

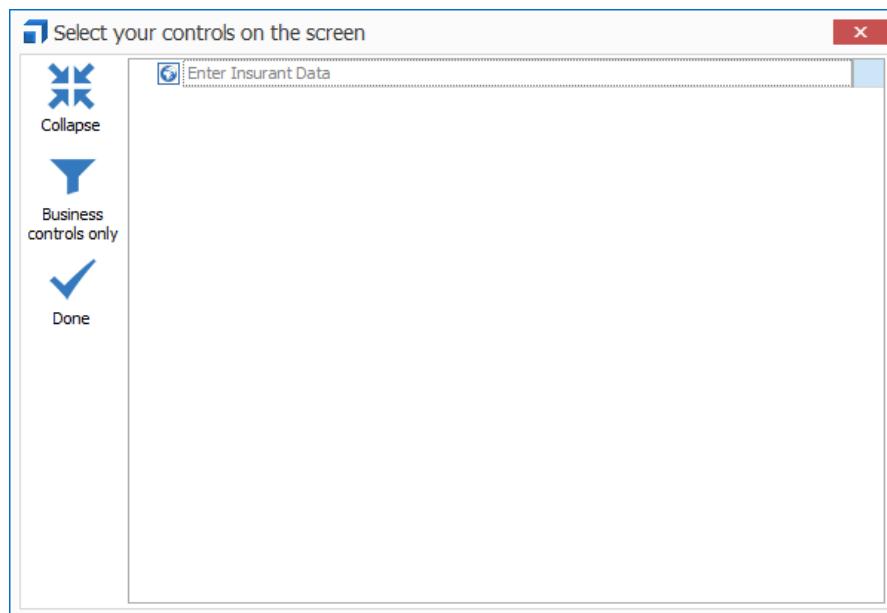
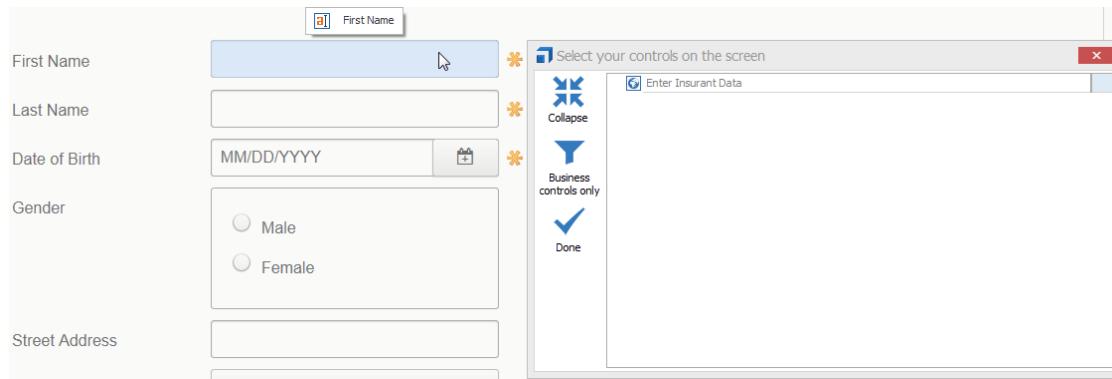


Illustration 34: Tosca XScan: Select your controls on the screen window



Click onto an item in the Tricentis sample application. Tosca will highlight the corresponding item in blue in the application and will automatically add this to the **Select your controls on the screen** window.



The screenshot shows a 'Select your controls on the screen' dialog box overlaid on a main application window. The dialog has a title bar 'Select your controls on the screen' and a close button. It contains three buttons: 'Collapse' (with a minus sign icon), 'Business controls only' (with a funnel icon), and 'Done' (with a checkmark icon). To the left of the dialog, there is a list of controls from the main application: First Name, Last Name, Date of Birth, Gender, and Street Address. The 'First Name' control is highlighted with a blue selection bar.

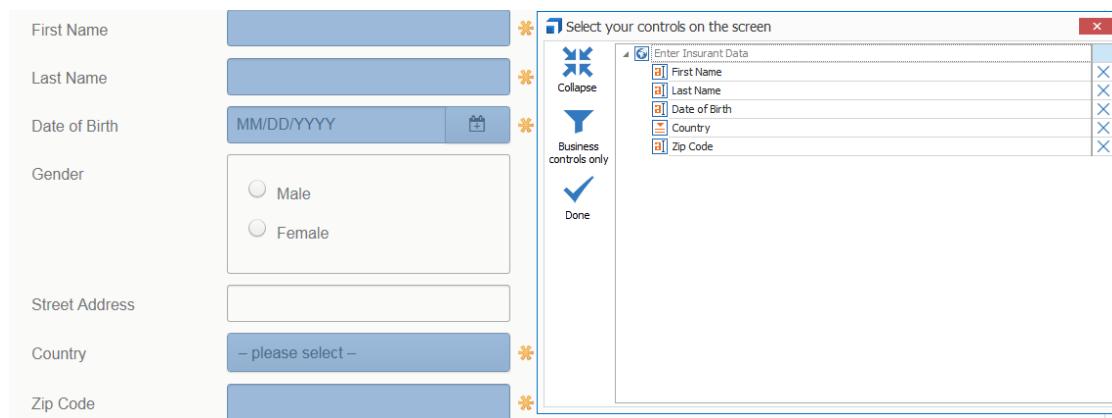
Illustration 35: Tosca XScan: Select your controls on the screen window: First Name is selected



To remove an item from this list, simply click on this item again.



Select the items to be included in your Module as shown in the illustration below.



The screenshot shows the same 'Select your controls on the screen' dialog box. Now, multiple controls are selected in the list: First Name, Last Name, Date of Birth, Country, and Zip Code. The 'Business controls only' button is also visible in the dialog. The main application window shows the same five controls: First Name, Last Name, Date of Birth, Gender, and Street Address. The 'First Name' control is still highlighted with a blue selection bar.

Illustration 36: Tosca XScan: Insurant data are selected, part 1



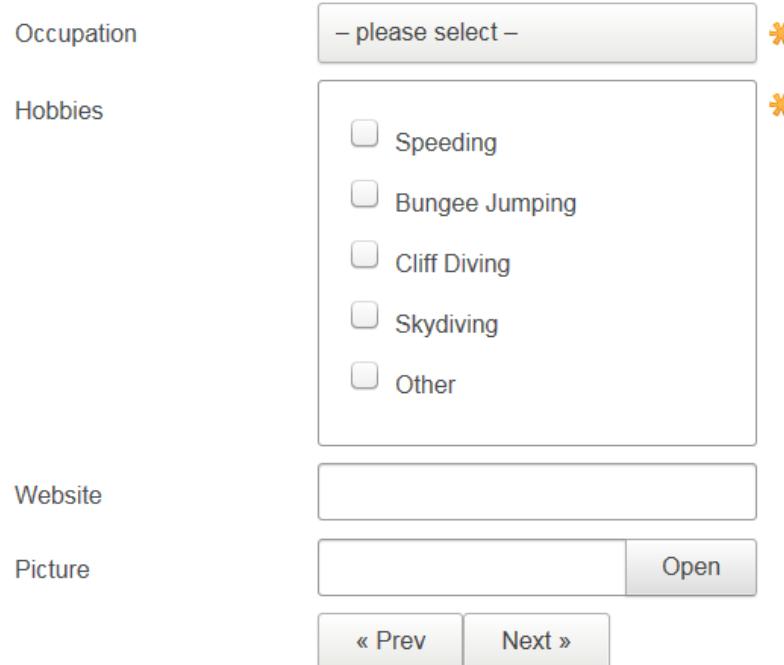
Click on **Done** as soon as you're finished. The focus will return to the Tosca XScan window.



You can open the **Select your controls on the screen** window again at any time via the **Tosca XScan** menu to add further items to your Module.



Switch to the Tricentis sample application and scroll down on the current page to display the items as shown in the illustration below.

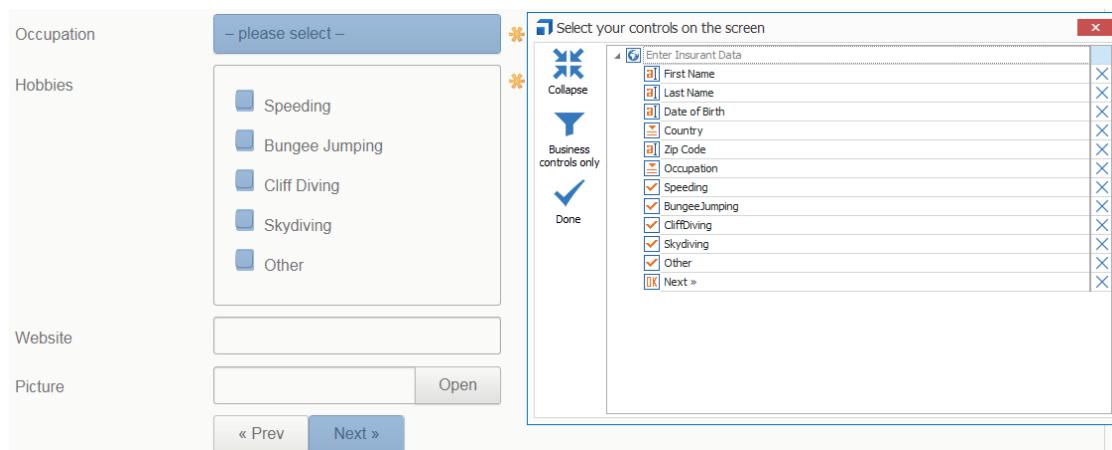


The screenshot shows a user interface for entering insurant details. It includes fields for Occupation (dropdown menu with placeholder "– please select –"), Hobbies (checkbox list with options: Speeding, Bungee Jumping, Cliff Diving, Skydiving, Other), Website (text input field), Picture (file input field with "Open" button), and navigation buttons ("« Prev" and "Next »"). Orange asterisks next to the Hobbies and Occupation fields indicate they are required.

Illustration 37: Tricentis sample application: Insurant details



Enable the **Select on Screen** option in **Tosca XScan** and select the items that are still missing as shown in the illustration below.



The screenshot shows the Tosca XScan interface with the "Select your controls on the screen" dialog open. The dialog lists various controls: First Name, Last Name, Date of Birth, Country, Zip Code, Occupation, Speeding, BungeeJumping, CliffDiving, Skydiving, Other, and Next ». The "Speeding", "BungeeJumping", "CliffDiving", "Skydiving", and "Other" checkboxes are checked, while others are unchecked. The "Done" button is highlighted.

Illustration 38: Tosca XScan: Insurant data are selected, part 2



Rename the project root element to **Insurant**.

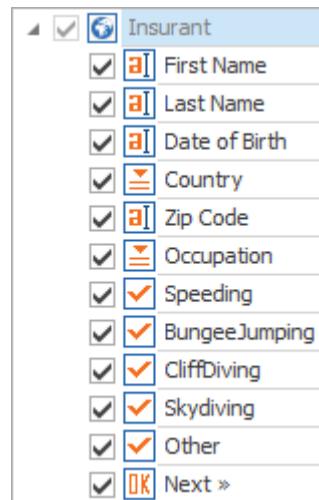


Illustration 39: Tosca XScan: relevant screen items for the Insurant Module



If you are wondering why the **Prev** button is not enabled in the list above, it's just because it is not needed in this TestCase.



Click on **Save** in the XScan window and close the window.

Tosca creates the Module **Insurant** in the Module folder **Vehicle Insurance** and adds all items you have selected in the XScan window as ModuleAttributes.



Switch to the Tricentis sample application, enter the insurant data as shown in the illustration below and click on **Next**.

Enter Vehicle Data		Enter Insurant Data 0	Enter Product Data
First Name	John ✓		
Last Name	Driver ✓		
Date of Birth	12/12/1970		✓
Gender	<input type="radio"/> Male <input type="radio"/> Female		
Street Address			
Country	Austria ✓		
Zip Code	1220 ✓		
City			
Occupation	Employee ✓		
Hobbies	<input type="checkbox"/> Speeding <input checked="" type="checkbox"/> Bungee Jumping ✓ <input type="checkbox"/> Cliff Diving <input type="checkbox"/> Skydiving <input type="checkbox"/> Other		
Website			
Picture			
 			

Illustration 40: Entering insurant data

The **Product data** screen appears:

Enter Vehicle Data	Enter Insurant Data	Enter Product Data 6
Start Date	MM/DD/YYYY	<input type="button" value=""/>
Insurance Sum [\$]	– please select –	*
Merit Rating	– please select –	*
Damage Insurance	– please select –	*
Optional Products	<input type="checkbox"/> Euro Protection <input type="checkbox"/> Legal Defense Insurance	*
Courtesy Car	– please select –	*
<input type="button" value="« Prev"/> <input type="button" value="Next »"/>		

Illustration 41: Product data screen

Module 4: Product data

Now you will create a Module for the product data screen.



Right-click on the Module folder **Vehicle Insurance** and select **Scan Application->Desktop**. You can also click on the Module folder and select the option from the dynamic menu **Modules**.

The **XScan** window opens.

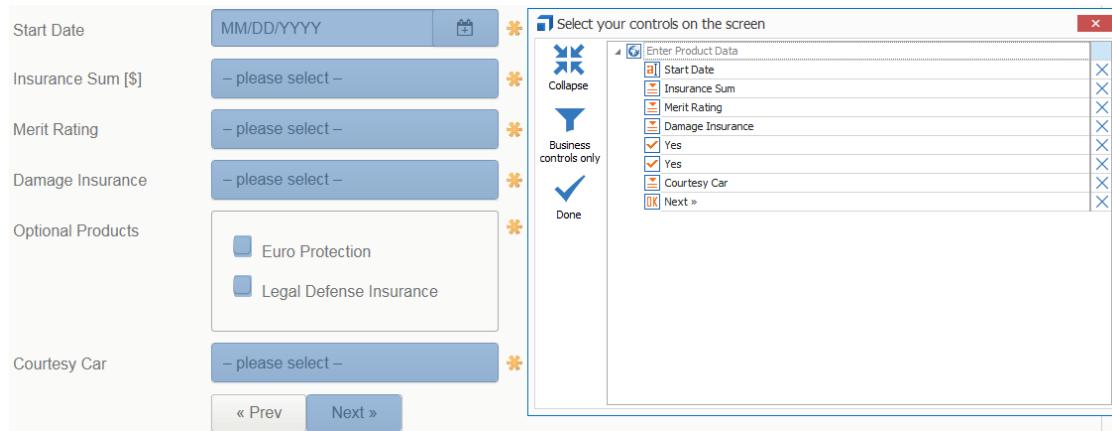


Click on the browser tab which shows the Tricentis sample application and then click on **Start** in the lower right corner of the XScan window.

Wait a few seconds while Tosca scans the screen.



Select the items to be included in the Module as shown in the illustration below.

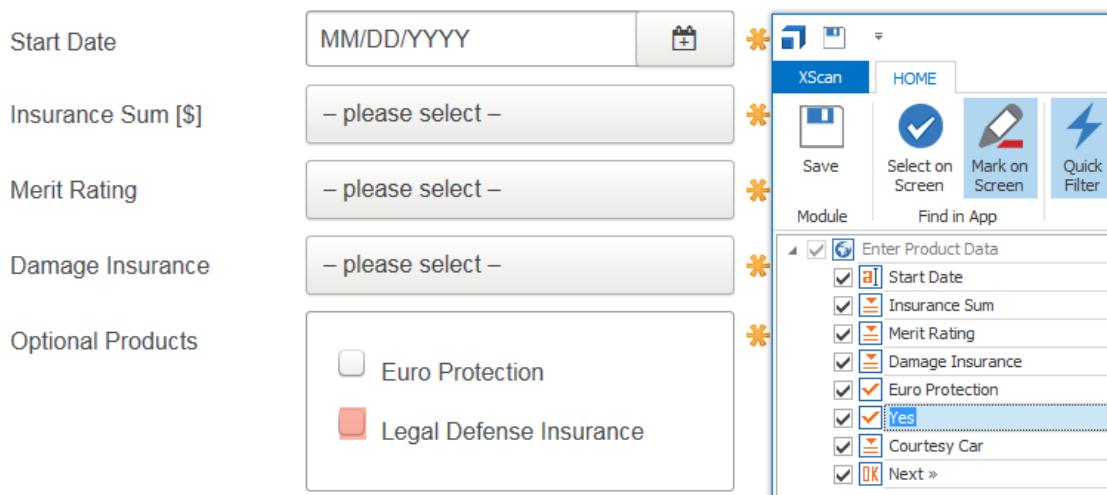


The screenshot shows the Tosca XScan interface. On the left is the 'Enter Product Data' screen with fields for Start Date (MM/DD/YYYY), Insurance Sum [\$] (please select), Merit Rating (please select), Damage Insurance (please select), Optional Products (Euro Protection, Legal Defense Insurance), and Courtesy Car (please select). Below the screen are navigation buttons: « Prev and Next ». On the right is a modal dialog titled 'Select your controls on the screen'. It contains a tree view of controls: Enter Product Data (Start Date, Insurance Sum, Merit Rating, Damage Insurance, Yes, Yes, Courtesy Car, Next). There are buttons for 'Collapse', 'Business controls only', and 'Done'.

Illustration 42: Tosca XScan: relevant items for the **Product data** Module

Rename the two Yes items to Euro Protection and Legal Defense Insurance accordingly:

To do so, enable the **Mark on Screen** option in **Tosca XScan** and select the Yes items in the tree view. This allows you to easily identify and distinguish these two items from each other.



The screenshot shows the Tosca XScan interface. On the left is the 'Enter Product Data' screen with fields for Start Date (MM/DD/YYYY), Insurance Sum [\$] (please select), Merit Rating (please select), Damage Insurance (please select), Optional Products (Euro Protection, Legal Defense Insurance), and Courtesy Car (please select). Below the screen are navigation buttons: « Prev and Next ». On the right is the 'XScan' ribbon bar with tabs for HOME, Save, Select on Screen, Mark on Screen, and Quick Filter. A sidebar shows the 'Module' list with 'Enter Product Data' selected. The tree view under 'Enter Product Data' shows items with checkboxes: Start Date, Insurance Sum, Merit Rating, Damage Insurance, Euro Protection (selected), Yes (selected), Courtesy Car, and Next. The 'Mark on Screen' button is highlighted.

Illustration 43: Tosca XScan: identifying items by using **Mark on Screen**

Assign the following meaningful name to the root element: Product data.

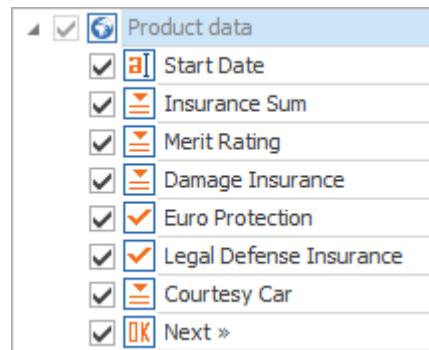


Illustration 44: Tosca XScan: relevant items for the **Product data** Module



Click on **Save** in the **XScan** window and close the window.

Tosca creates the Module **Product data** in the Module folder **Vehicle Insurance** and adds all items you have selected in the XScan window as ModuleAttributes.



Switch to the Tricentis sample application, enter the data as shown in the illustration below and click on **Next**.

Indicate the first of the month after next for the **Start Date**. In our tutorial here, we use 12/01/2016.

Start Date	12/01/2016 	
Insurance Sum [\$]	3.000.000,00	
Merit Rating	Bonus 9	
Damage Insurance	No Coverage	
Optional Products	<input checked="" type="checkbox"/> Euro Protection <input type="checkbox"/> Legal Defense Insurance	
Courtesy Car	No	
<input type="button" value="« Prev"/> <input type="button" value="Next »"/>		

Illustration 45: Entering product data

The **Price option** screen appears. Please note that the amounts in your sample application may differ from the ones shown in the illustration below.

Enter Vehicle Data		Enter Insurant Data		Enter Product Data		Select Price Option 1	Send Quote			
						Silver	Gold	Platinum	Ultimate	*
Price per Year (\$)		62.00		183.00		360.00	685.00			
Online Claim		No		Submit		Submit	Submit			
Claims Discount (%)		No		2		5	10			
Worldwide Cover		No		Limited		Limited	Unlimited			
Select Option		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>			

Illustration 46: Price option screen

Module 5: Quote

On this page you can choose from various packages and price options. Later on you will create a TestCase using data of this screen to verify whether the **Price per Year (\$)** equals a certain value for the corresponding package. This means that you need to scan a new Module right now:



Right-click on the Module folder **Vehicle Insurance** and select **Scan Application->Desktop**. You can also click on the Module folder and select the option from the dynamic menu **Modules**.

The **XScan** window opens.



Click on the browser tab which shows the Tricentis sample application and then click on **Start** in the lower right corner of the XScan window.

Wait a few seconds while Tosca scans the screen.

The insurance calculator shows the calculated quote in the form of a table. Please note that the amounts in your sample application may differ from the ones shown in the illustration below.

Silver		Gold		Platinum		Ultimate	
Price per Year (\$)	62.00	183.00		360.00	685.00		
Online Claim	No	Submit		Submit	Submit		
Claims Discount (%)	No	2		5	10		
Worldwide Cover	No	Limited		Limited	Unlimited		
Select Option	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>			

Illustration 47: Selecting the appropriate package

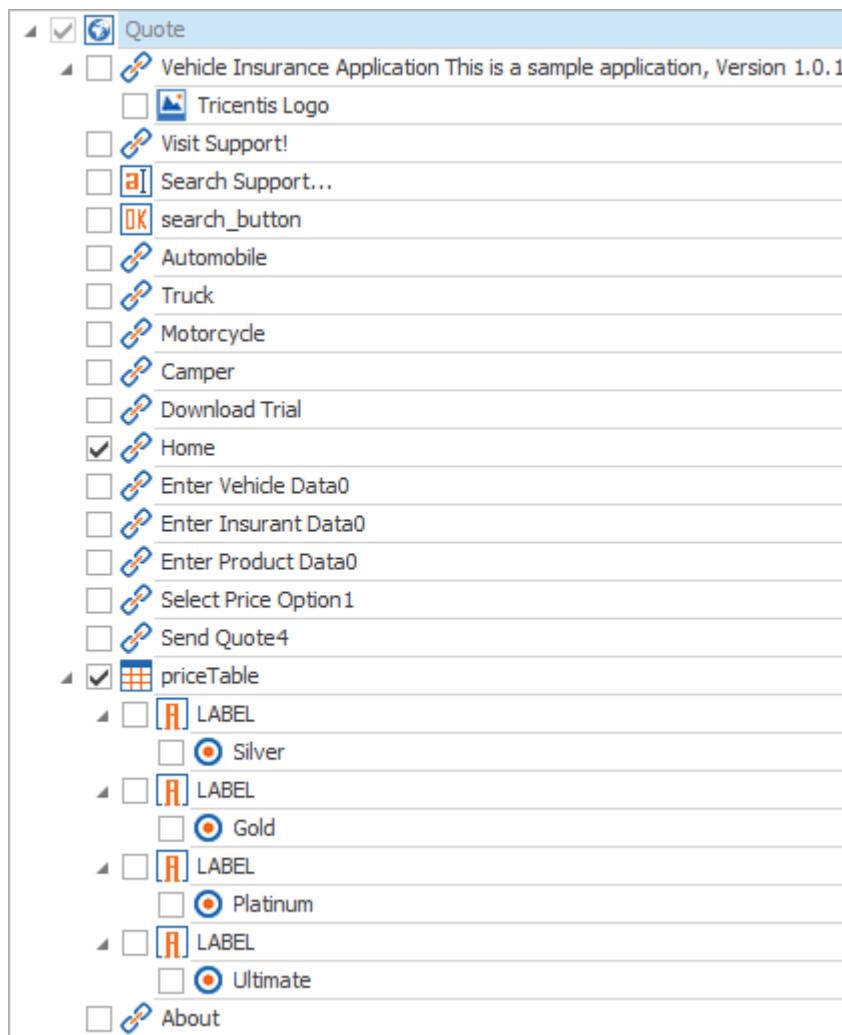


Use the **Mark on Screen** option in the **XScan** window to identify the table accordingly. The table name in **XScan** is **priceTable**.

Select the items to be included in the Module as shown in the illustration below.



Assign the following meaningful name to the root element: **Quote**.



The screenshot shows the XScan interface with the 'Quote' module selected. The tree view displays the following structure:

- Vehicle Insurance Application This is a sample application, Version 1.0.1
 - Tricentis Logo
 - Visit Support!
 - Search Support...
 - search_button
 - Automobile
 - Truck
 - Motorcycle
 - Camper
 - Download Trial
 - Home
 - Enter Vehicle Data0
 - Enter Insurant Data0
 - Enter Product Data0
 - Select Price Option1
 - Send Quote4
- priceTable
 - LABEL (radio button selected: Silver)
 - LABEL (radio button selected: Gold)
 - LABEL (radio button selected: Platinum)
 - LABEL (radio button selected: Ultimate)
- About

Illustration 48: XScan: relevant items for the **Quote** Module



Click on **Save** in the **XScan** window and close the window.

Tosca creates the Module **Quote** in the Module folder **Vehicle Insurance** and adds all items you have selected in the **XScan** window as ModuleAttributes.

At this stage you have created all the Modules you need for your TestCase.

		Details	Properties	
		Name	ValueRange	Default DataType
↳	Module	Quote		
↳	Home	{Click};{Rightclick}	String	
↳	priceTable		String	

Illustration 49: Modules required for the **Automobile TestCase**

Related chapters

- Tosca Commander Manual - chapter Modules section (orange)

8 Creating TestCases

In this chapter you will create a TestCase with TestSteps which maps the vehicle insurance quote for an automobile. This requires that you specify the automobile data in the TestSteps in order to create the quote. Finally you should verify a specific value of your quote.

In the previous chapter "[Creating Modules](#)" you have already scanned all the required Modules, and in this chapter you will create a TestCase with TestSteps which include the test data required for running this TestCase in the end.

Creating a TestCase

Create the TestCase **Automobile** in your TestCase folder **Vehicle Insurance**. You have already created this folder in [chapter "Context menu and mini toolbar"](#).



Right-click on the TestCase folder **Vehicle Insurance** and select **Create TestCase** from the mini toolbar. You can also click on the TestCase folder and select the icon **Create Object->TestCase** from the dynamic menu **TestCases**.



Assign the name **Automobile** to the new TestCase.

	Details	Properties	Test configuration	

The screenshot shows the Tricentis application interface. On the left, there is a tree view of project structure:

- TestCases
 - My first TestCase
 - Vehicle Insurance
 - Automobile

Illustration 50: Automobile TestCase

The TestCase starts off with the start screen of the Tricentis sample application.

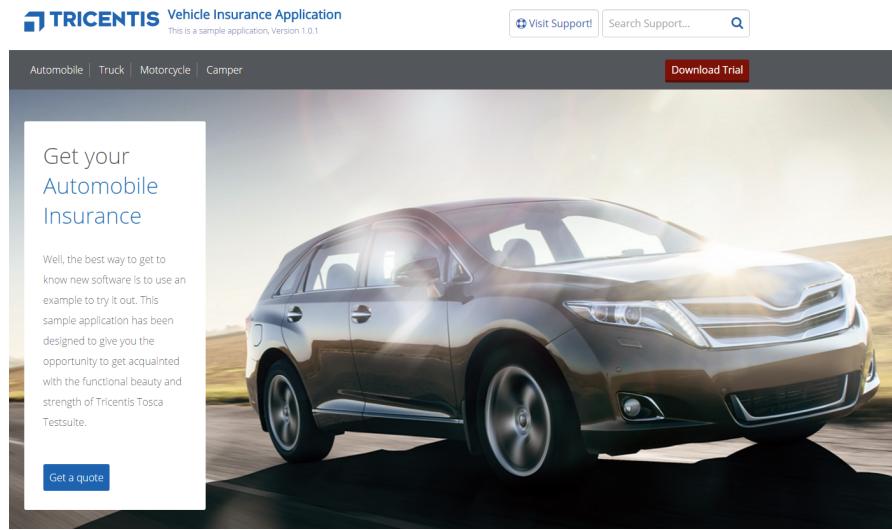


Illustration 51: Tricentis sample application: start screen

TestStep 1: Start screen (Home)

Your first TestStep should instruct Tosca to click on the **Automobile** link in the Tricentis sample application to start the vehicle insurance calculator.

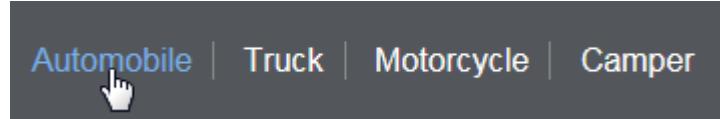


Illustration 52: Navigation bar

You have already created the Module **Home** earlier (see also "[Module 1: Start screen \(Home\)](#)"), and you will be using this Module now for your first TestStep.



Switch to the Modules window, drag the **Home** Module onto your **Automobile** TestCase and drop it there.

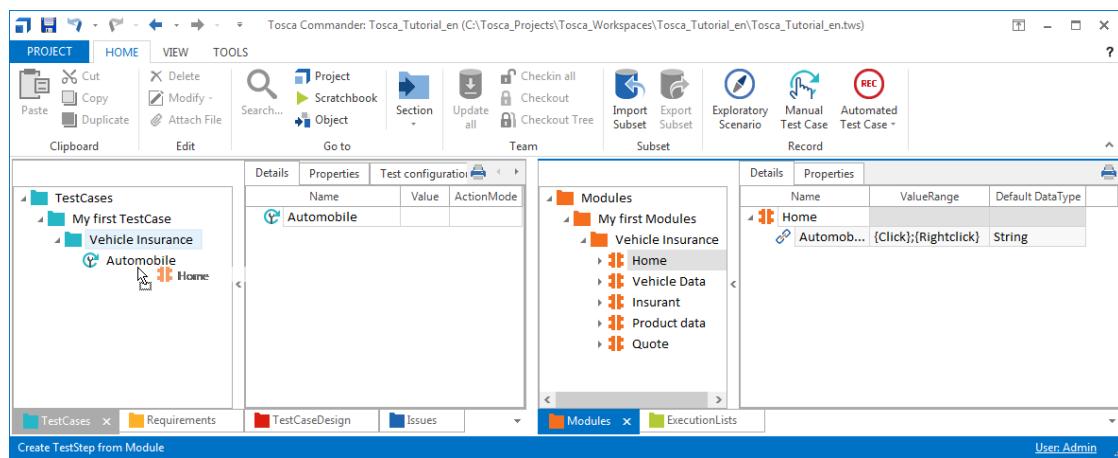


Illustration 53: Creating the Home TestStep

Tosca creates the TestStep **Home** and automatically assigns the name of the corresponding Module to this. All the TestStepValues that can be steered are located beneath this TestStep - in our case, the Automobile link of the start screen **Home**. The TestStepValue icons are grayed out until you define actions for these values.



TestStepValues which are grayed out due to lacking values can either be hidden from view or shown via the **F9** key.



Open the drop-down menu in the **Value** column for the TestStepValue **Automobile**, select **{Click}** and press **Enter** to confirm your selection.

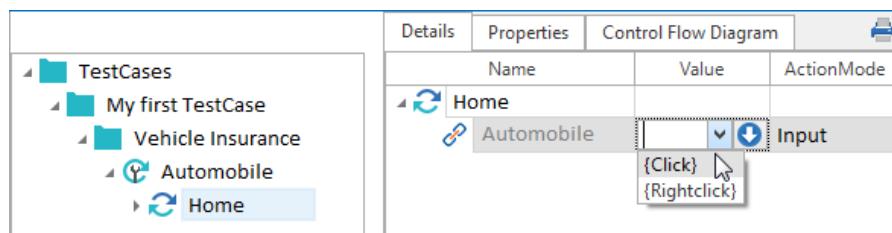


Illustration 54: Defining actions for the Home screen

The **ActionMode** column is automatically set to **Input** since you have defined an input action.

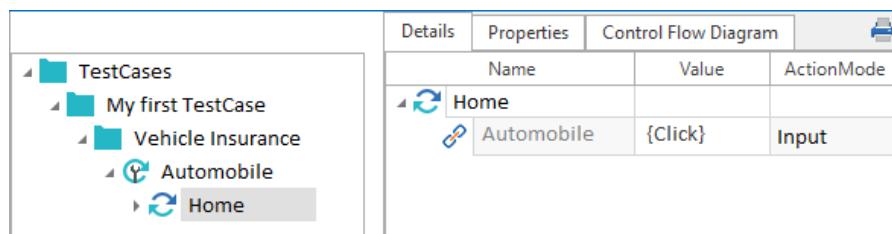


Illustration 55: Finalized Home TestStep

You've just created your first TestStep!

TestStep 2: Vehicle data

This TestStep should enter vehicle data and should then click on **Next**.



Return to the Modules window, drag the **Vehicle data** Module onto your **Automobile** TestCase and drop it there.

The **Vehicle data** TestStep is inserted beneath the **Home** TestStep.



Enter the data into the TestStep as shown in the illustration below.

 TestStepValues provide values that are stored in the ValueRange column of the corresponding ModuleAttribute in a drop-down list. If your required value is not available in this list, you can also enter this manually.

Vehicle Data			
Name	Value	ActionMode	
Make	Mazda	Input	
[kW]	65	Input	
Date of Manufacture	01/11/2012	Input	
Number of Seats	5	Input	
Fuel Type	Petrol	Input	
List Price	19000	Input	
Annual Mileage	21000	Input	
Next »	{Click}	Input	

Illustration 56: Finalized **Vehicle data** TestStep

The **ActionMode** column of the TestSteps is automatically set to **Input** again since you have defined input actions.

TestStep 3: Insurant

This TestStep should enter insurant data and should then click on **Next**.



Return to the Modules window, drag the **Insurant** Module onto your **Automobile** TestCase and drop it there.

The **Insurant** TestStep is inserted beneath the **Vehicle data** TestStep.



Enter data into the TestStep as shown in the illustration below.

	Details	Properties	Control Flow Diagram	
	Name	Value	ActionMode	
▲  Insurant				
<input type="text"/> First Name	John	Input		
<input type="text"/> Last Name	Driver	Input		
<input type="text"/> Date of Birth	12/12/1970	Input		
<input type="text"/> Country	Austria	Input		
<input type="text"/> Zip Code	1220	Input		
<input type="text"/> Occupation	Employee	Input		
<input checked="" type="checkbox"/> Speeding				
<input checked="" type="checkbox"/> BungeeJumping	True	Input		
<input checked="" type="checkbox"/> CliffDiving				
<input checked="" type="checkbox"/> Skydiving				
<input checked="" type="checkbox"/> Other				
<input type="button" value="OK"/> Next »	{Click}	Input		

Illustration 57: Finalized **Insurant** TestStep

Let's continue with the next TestStep.

TestStep 4: Product data

This TestStep should select the according product and should then click on **Next**.



Return to the Modules window, drag the **Product data** Module onto your **Automobile** TestCase and drop it there.

The **Product data** TestStep is inserted beneath the **Insurant** TestStep.



Enter values into the TestStep as shown in the illustration below.



Please enter the first of the month after next for the TestStepValue **Start Date**. In this tutorial we used the date 12/01/2016.

	Details	Properties	Control Flow Diagram	
	Name	Value	ActionMode	
▲  Product data				
<input type="text"/> Start Date	12/01/2016	Input		
<input type="text"/> Insurance Sum	3.000.000,00	Input		
<input type="text"/> Merit Rating	Bonus 9	Input		
<input type="text"/> Damage Insurance	No Coverage	Input		
<input checked="" type="checkbox"/> Euro Protection	True	Input		
<input checked="" type="checkbox"/> Legal Defense Insurance				
<input type="text"/> Courtesy Car	No	Input		
<input type="button" value="OK"/> Next »	{Click}	Input		

Illustration 58: Finalized **Product data** TestStep

TestStep 5: Quote

This is the final TestStep in your TestCase. Here Tosca should verify whether the **Price per Year (\$)** for the **Ultimate** package equals a specific value.

The vehicle insurance calculator shows the calculated values along with various options in a table. Please note that your **Price per Year (\$)** value may differ from the one in this tutorial (**685,00**). You may use the value Tosca calculated for you in your sample application.

	Silver	Gold	Platinum	Ultimate
Price per Year (\$)	62.00	183.00	360.00	685.00
Online Claim	No	Submit	Submit	Submit
Claims Discount (%)	No	2	5	10
Worldwide Cover	No	Limited	Limited	Unlimited

Illustration 59: Quote data



Return to the Modules window, drag the **Quote** Module onto your **Automobile** TestCase and drop it there.

The **Quote** TestStep is inserted beneath the **Product data** TestStep.

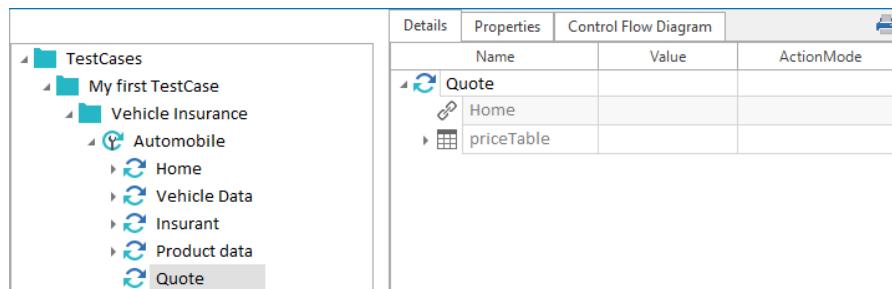
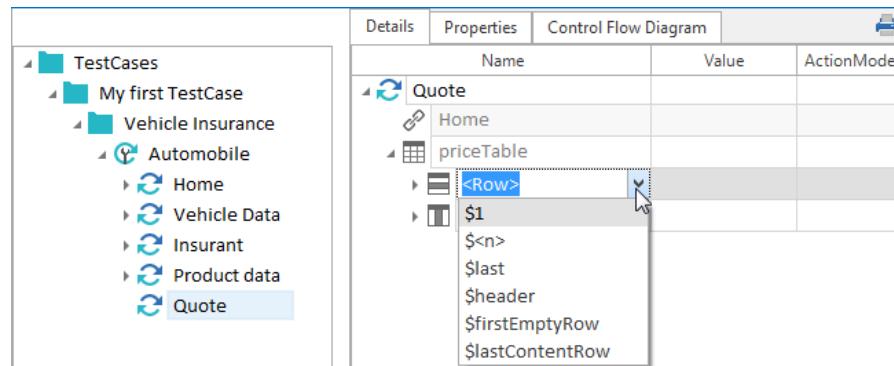


Illustration 60: Quote TestStep

Define the cell which includes the value to be verified in the TestStepValue **PriceTable**. The amount is shown in the first row of the last column.



Expand the view for the TestStepValue **priceTable** and open the drop-down menu of the TestStepValue <Row>.

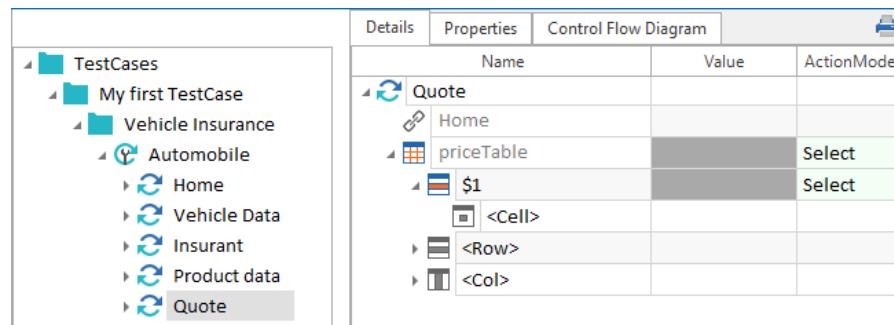


Name	Value	ActionMode
Home		
priceTable		
<Row>		
\$1		
\$<n>		
\$last		
\$header		
\$firstEmptyRow		
\$lastContentRow		

Illustration 61: Selecting a row from the priceTable



Select **\$1** from the drop-down list and press **Enter**. This specifies the row which holds the value to be verified.

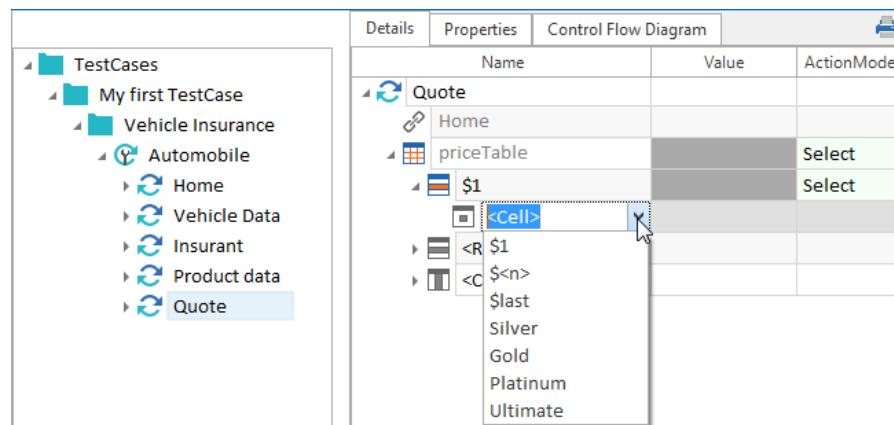


Name	Value	ActionMode
Home		
priceTable	Select	
\$1	Select	
<Cell>		
<Row>		
<Col>		

Illustration 62: \$1 row



Left-click on the TestStepValue **<Cell>** beneath the TestStepValue **\$1**.

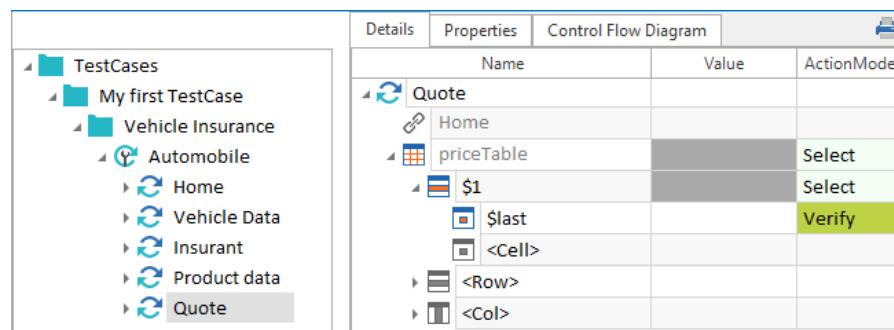


Name	Value	ActionMode
Home		
priceTable	Select	
\$1	Select	
<Cell>		
<R \$1		
<C \$<n>		
\$last		
Silver		
Gold		
Platinum		
Ultimate		

Illustration 63: Specifying the cell



Select **\$last** from the drop-down list and press **Enter**. This specifies the last cell of the row which includes the value to be verified.



Details			Properties	Control Flow Diagram	
Name	Value	ActionMode			
Quote					
Home					
priceTable	Select				
\$1	Select				
\$last	\$685.00	Verify			
<Cell>					
<Row>					
<Col>					

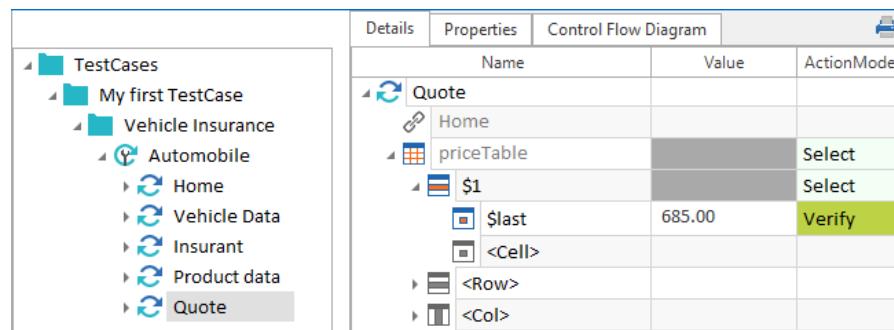
Illustration 64: Specifying the cell



Enter the value that should be verified into the **Value** column of the new TestStepValue **\$last**.



Use a comma as thousand separator and a dot as decimal separator when you enter the value to be verified.



Details			Properties	Control Flow Diagram	
Name	Value	ActionMode			
Quote					
Home					
priceTable	Select				
\$1	Select				
\$last	685.00	Verify			
<Cell>					
<Row>					
<Col>					

Illustration 65: Finalized Quote TestStep

You may have realized that the **ActionMode** column has automatically been set to **Verify**. Unlike in your previous TestSteps where Tosca is supposed to input data (**Input**), in this TestStep Tosca should however verify data.

In the first step of this verify operation, Tosca will select the TestStepValue **priceTable** and the first row (**\$1**) by using the ActionMode **Select**. In the next step it will use the TestStepValue **\$last** to verify whether the value of the last cell equals **685.00**.

Congratulations! You're done with your **Automobile** TestCase. In the next chapter you will learn how to create an **ExecutionList** in order to run your TestCase ([see chapter 9 "Executing TestCases"](#)).

Related chapters

- [Tosca Commander Manual - chapter TestCases section \(blue\)](#)

9 Executing TestCases

In Tosca you can sum up all completed TestCases in **ExecutionLists** and run them. Each TestCase is shown as an ExecutionEntry. Execution results and their history are automatically written to a log file (**ActualLog**).

If you would like to run specific TestSteps separately or if you would like to check TestCases that are still incomplete, you can use the **Scratchbook** function ([see "ScratchBook"](#)).

9.1 ExecutionLists

Run your **Automobile** TestCase in an ExecutionList:

-  Click on the **ExecutionLists** tab in Tosca Commander.
-  Right-click on the ExecutionList folder **ExecutionLists** and select **Create Folder** from the mini toolbar. You can also click on the ExecutionList folder and select the icon  **Create Folder->Folder** from the dynamic menu **ExecutionLists**.
-  Assign the name **My first ExecutionList** to the new ExecutionList folder.

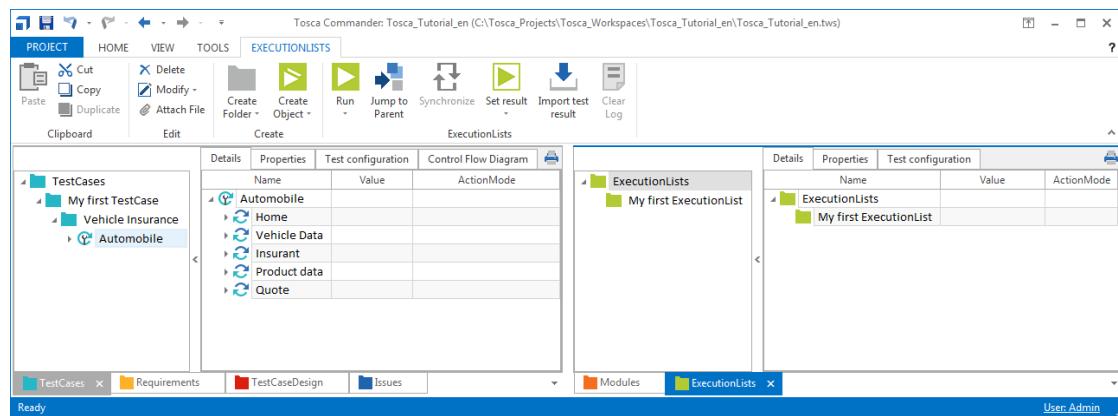


Illustration 66: ExecutionLists

Creating ExecutionEntries

In Tosca you can create ExecutionEntries by dragging and dropping TestCases onto ExecutionLists.

-  Right-click onto the ExecutionList folder **My first ExecutionList** and select **Create ExecutionList** from the mini toolbar. You can also click on the ExecutionList folder and select the icon  **Create Object->ExecutionList** from the dynamic menu **ExecutionLists**.



Assign the name **Vehicle Insurance** to the new ExecutionList.



Drag your **Automobile** TestCase onto your **Vehicle Insurance** ExecutionList and drop it there.

The ExecutionEntry **Automobile** is automatically created and linked to the corresponding TestCase.

	Details	Properties	Test configuration	
			Name	Loginfo
			Automobile	

Illustration 67: ExecutionEntry **Automobile**



If you would like to see which TestCase is linked to which ExecutionEntry, simply right-click onto an ExecutionEntry and select the option **Jump to TestCase**. You can also click on the ExecutionEntry and select the icon **Jump to TestCase** from the dynamic menu **ExecutionLists**.

Select the option **Jump to Module** from the context menu of a TestStep to see which TestStep is linked to which Module. You can also click on the TestStep and select the icon **Jump to Module** from the dynamic menu **TestCases**.

Running ExecutionLists



Open the Tricentis sample application in Microsoft® Internet Explorer (see also [chapter 6 "The Tricentis Sample Application"](#)).

The sample application must show the start screen so that the TestCase can be successfully executed.



Switch back to Tosca Commander, go to the ExecutionLists window and select the option **Run** from the context menu of the **Vehicle Insurance** ExecutionList. You can also click on the ExecutionList and select the icon **Run** from the dynamic menu **ExecutionLists**.

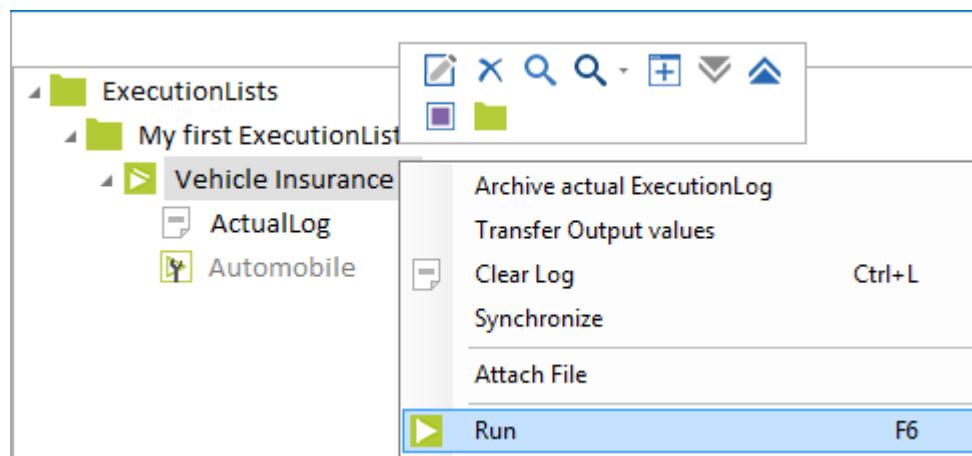


Illustration 68: Running ExecutionLists

Tosca starts executing the TestCase.

 Since Tosca will take over control of your mouse and keyboard upon test execution we highly recommend that you refrain from performing mouse clicks and keyboard inputs while Tosca is running your TestCase.

You should now be able to observe Tosca clicking the links and filling out all the forms in the insurance calculator. The execution will finally stop on the last page of the Tricentis sample application where you can view the quotes that have been created for the respective packages.

Execution information

The **Loginfo** column shows the **execution state**:

- Green: Passed
- Red: Failed
- White: No Result (i.e. this ExecutionEntry has not yet been executed)
- Gray: the TestCase does no longer exist in this workspace

If your TestCase was successfully executed without any errors, Tosca will indicate this with a green bar. Since your current TestCase only consists of one single ExecutionEntry, the green bar includes the figure 1.

	Details	Properties	Test configuration	
ExecutionLists				
My first ExecutionList				
Vehicle Insurance				
ActualLog				
Automobile				

Name	Loginfo
Vehicle Insurance	1
Automobile	Executing on 'InternetExplorer'. Browser was chosen automatically. If you want to use a specific browser please use the 'Browser' testconfiguration parameter.

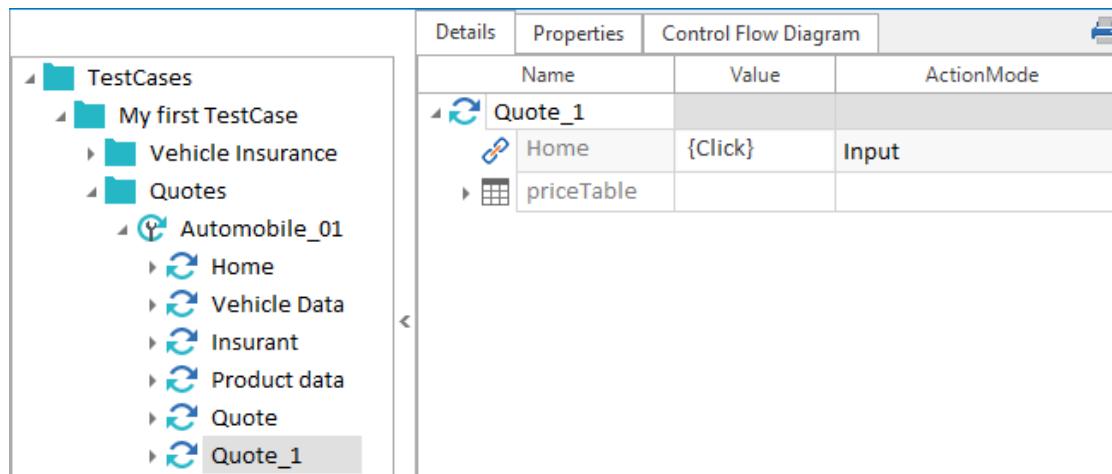
Illustration 69: Execution result Automobile

To get an idea of how various execution information is shown in Tosca you will now create an ExecutionList containing 5 ExecutionEntries:

-  Switch to the TestCases window and create the TestCase folder **Quotes** beneath the TestCase folder **My first TestCase**.
-  Copy the TestCase **Automobile** to the **Quotes** TestCase folder and rename this to **Automobile_01**.
-  Switch to the Modules window, drag the **Quote** Module onto your **Automobile_01** TestCase and drop it there.

Tosca will automatically create the TestStep **Quote_1**.

-  Select the option **{Click}** from the drop-down list of the TestStepValue **Home**.

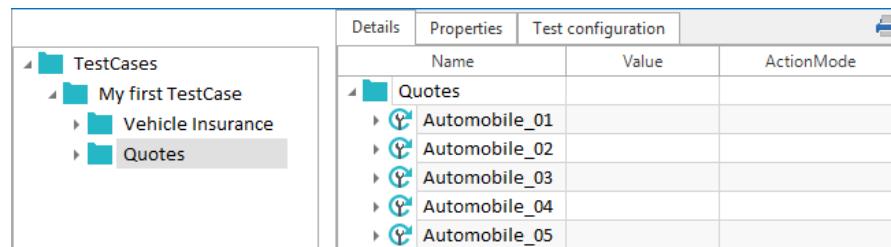


The screenshot shows the Tosca interface with the TestCases window open. On the left, the tree view shows a hierarchy under 'TestCases': 'My first TestCase' contains 'Vehicle Insurance' and 'Quotes'. 'Quotes' contains 'Automobile_01', which in turn contains 'Home', 'Vehicle Data', 'Insurant', 'Product data', 'Quote', and 'Quote_1'. On the right, the details panel has tabs for 'Details', 'Properties', and 'Control Flow Diagram'. The 'Properties' tab is active, showing a table with three columns: 'Name', 'Value', and 'ActionMode'. A single row is present for 'Quote_1', with 'Home' in the 'Value' column and 'Input' in the 'ActionMode' column. The 'Value' column for 'Quote_1' is currently highlighted.

Illustration 70: TestStep **Quote_1**

Tosca will return to the start screen of the Tricentis sample application after it has created the quote. This allows you to run several TestCases in a row since each TestCase starts on the start screen of the sample application.

-  Make 4 copies of your **Automobile_01** TestCase and paste them into the **Quotes** folder. The TestCases are numbered consecutively.



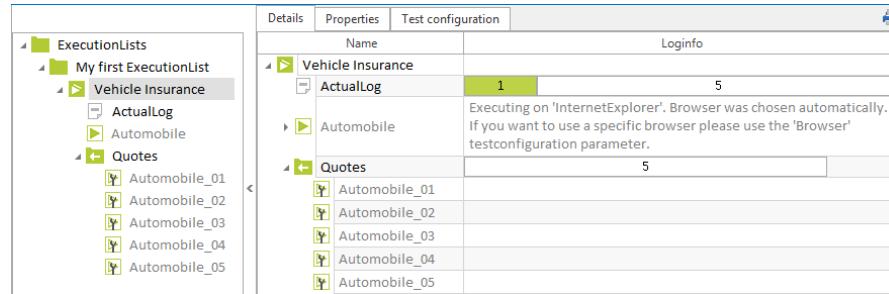
The screenshot shows the Tosca interface with the TestCases window open. On the left, the tree view shows 'TestCases' containing 'My first TestCase' and 'Quotes'. 'Quotes' contains five instances of 'Automobile_01', labeled 'Automobile_01' through 'Automobile_05'. On the right, the details panel shows the 'Properties' tab with a table for 'Test configuration'. The table has columns for 'Name', 'Value', and 'ActionMode'. It lists five entries corresponding to the 'Automobile_01' instances in the tree view. The 'Value' column for the first entry is highlighted.

Illustration 71: TestCases from **Automobile_01** to **Automobile_05**



Drag your **Quotes** TestCase folder onto your **Vehicle Insurance** ExecutionList and drop it there.

Tosca automatically creates new ExecutionEntries and adapts the ExecutionList statistics accordingly: Since your newly created ExecutionEntries have not yet been executed, they receive the status **No Result** and are shown with a white bar in the **Loginfo** column.



Name	Loginfo
Actual.Log	1
Automobile	5

Illustration 72: White bar showing that 5 ExecutionEntries have not yet been executed

Set the test results manually to see all execution states that are available in Tosca:



Right-click on the **Automobile_01** ExecutionEntry and select **Set result->Failed** from the context menu. You can also click on the ExecutionEntry and select the icon **Set result->Failed** from the dynamic menu **ExecutionLists**.



Give reasons for your decision by entering **Reason 01** into the appearing popup window.



Set the ExecutionEntries for **Automobile_02** and **Automobile_03** also to **Failed** (**Set result->Failed**). You don't need to give reasons here, simply click on **OK**.



Right-click on the **Automobile_04** ExecutionEntry and select **Set result->Passed** from the context menu. You can also click on the ExecutionEntry and select the icon **Set result->Passed** from the dynamic menu **ExecutionLists**. Confirm your selection with a click on **OK** in the appearing popup window.



Switch to the TestCases window and remove TestStep **Automobile_02** from your TestCase folder **Quotes**.



Confirm the appearing warning message with a click on **OK**.

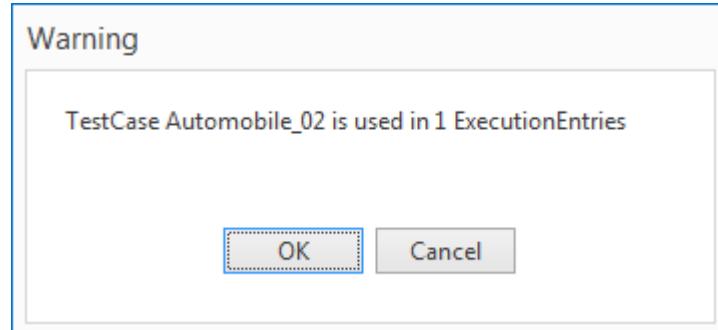


Illustration 73: Warning



Switch to the **ExecutionLists** window and left-click on your **Quotes** ExecutionList.

The **Loginfo** column shows various execution states:

One TestCase is marked as passed (green), one has not yet been executed (white), and one TestCase does no longer exist in the workspace (gray). Two TestCases are marked as failed (red).

	Name	Loginfo			
		1	2	1	1
↳ Quotes	Automobile_01	Manually set to Failed by 'Admin': Reason 01			
↳ Quotes	No TestCase assigned	Manually set to Failed by 'Admin'			
↳ Quotes	Automobile_03	Manually set to Failed by 'Admin'			
↳ Quotes	Automobile_04	Manually set to Passed by 'Admin'			
↳ Quotes	Automobile_05				

Illustration 74: Execution states

History

To become acquainted with ExecutionList histories, you will now modify a TestCase and trigger an error. Specify a wrong verification value:



Switch to the **TestCases** window, go to your **Automobile_04** TestCase (TestCase folder **Quotes**) and set the value to be verified to **12345** in the **Quote** TestStep.

Details		Properties	Control Flow Diagram	
Name	Value	ActionMode		
Quote		Select		
Home				
priceTable		Select		
\$1		Select		
\$last	12345	Verify		
<Cell>				
<Row>				
<Col>				

Illustration 75: The value to be verified is wrong



Open the Tricentis sample application in Microsoft® Internet Explorer (see also [chapter 6 "The Tricentis Sample Application"](#)).

The sample application must show the start screen so that your TestCase can be successfully executed.



Run your **Quotes** ExecutionList.



Disable the option **Show only last ActualLog** under **View->ExecutionLists**, and enable the following entries: **Show multiline Logs**, **Show Statistics only on visible ExecutionLists**, and **Show Statistics**.

VIEW tab is selected.

Context menu options shown:

- Show only last ActualLog
- Show multiline Logs** (highlighted)
- Show Statistics only on visible ExecutionLists
- Show Statistics logarithmically
- Show Statistics (F11)
- Show failed Logs only (Shift+F11)

Illustration 76: ExecutionLists view - settings

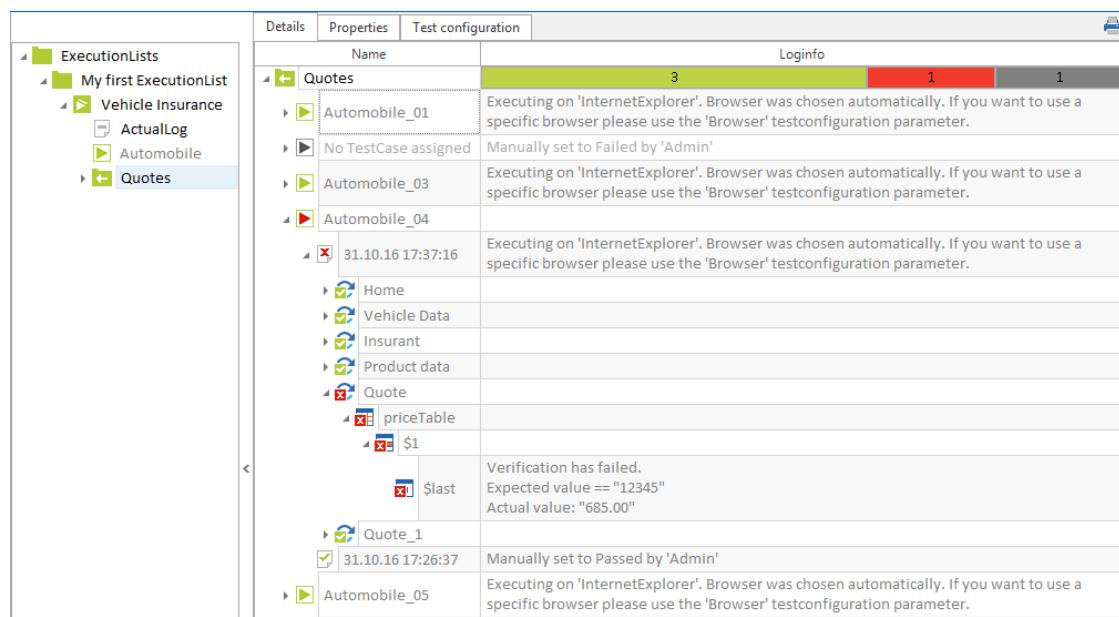


Right-click on the ExecutionEntry **Automobile_04** in the details view. Choose **▼ (Expand all)** in the mini toolbar to view all TestStepValue

details.

The log history is shown in chronological order in Tosca. The most recent results are always located on top.

The ExecutionEntry **Automobile_04** provides a description of the error occurred, along with further details on which TestStep caused the error.



	Name	Loginfo
↳ Quotes		3 1 1
↳ Automobile_01	Executing on 'InternetExplorer'. Browser was chosen automatically. If you want to use a specific browser please use the 'Browser' testconfiguration parameter.	
↳ No TestCase assigned	Manually set to Failed by 'Admin'	
↳ Automobile_03	Executing on 'InternetExplorer'. Browser was chosen automatically. If you want to use a specific browser please use the 'Browser' testconfiguration parameter.	
↳ Automobile_04		
↳ 31.10.16 17:37:16	Executing on 'InternetExplorer'. Browser was chosen automatically. If you want to use a specific browser please use the 'Browser' testconfiguration parameter.	
↳ Home		
↳ Vehicle Data		
↳ Insurant		
↳ Product data		
↳ Quote		
↳ priceTable		
↳ \$1	Verification has failed. Expected value == "12345" Actual value: "685.00"	
↳ last		
↳ Quote_1		
↳ 31.10.16 17:26:37	Manually set to Passed by 'Admin'	
↳ Automobile_05	Executing on 'InternetExplorer'. Browser was chosen automatically. If you want to use a specific browser please use the 'Browser' testconfiguration parameter.	

Illustration 77: ExecutionList: history

9.2 ScratchBook

The ScratchBook in Tosca Commander is used for running individual TestSteps upon TestCase creation.

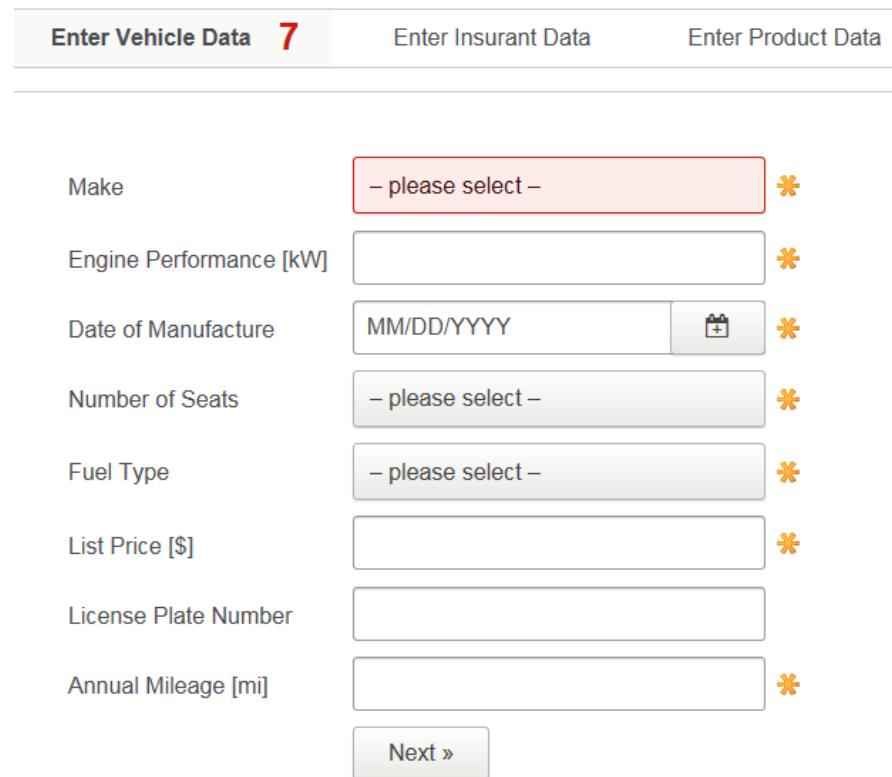
You can combine various TestCases, TestSteps and TestCase folders and run them in the ScratchBook.

In contrast to ExecutionLists, the ScratchBook does neither save how TestCases are combined for test execution nor the test results. We recommend using the ScratchBook solely upon test case creation.

Run the **Vehicle data** TestStep in your **Automobile** TestCase in the ScratchBook. Since this TestStep contains vehicle data you have to make sure that the corresponding page of the sample application is open so that Tosca can enter the data accordingly.



Open the Tricentis sample application in Microsoft® Internet Explorer ([see "The Tricentis Sample Application"](#)) and go to the **Vehicle data** page.



The screenshot shows a form titled "Enter Vehicle Data" with a red "7" indicating the number of required fields. The fields are:

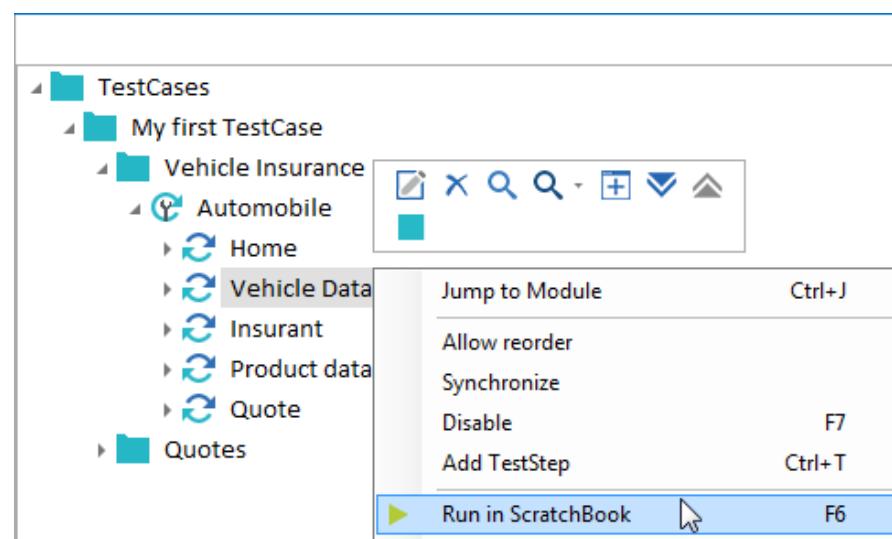
- Make: "please select" (highlighted with a red border)
- Engine Performance [kW]: Text input field
- Date of Manufacture: Date input field with calendar icon
- Number of Seats: "please select" (highlighted with a red border)
- Fuel Type: "please select" (highlighted with a red border)
- List Price [\$]: Text input field
- License Plate Number: Text input field
- Annual Mileage [mi]: Text input field

A "Next »" button is at the bottom right.

Illustration 78: Vehicle data screen



Return to Tosca Commander. Right-click on your **Vehicle data** TestStep (beneath the **Automobile** TestCase) and select the option **Run in ScratchBook** from the context menu. You can also click on the TestStep and select the icon  **Run in ScratchBook** from the dynamic menu **TestCases**.

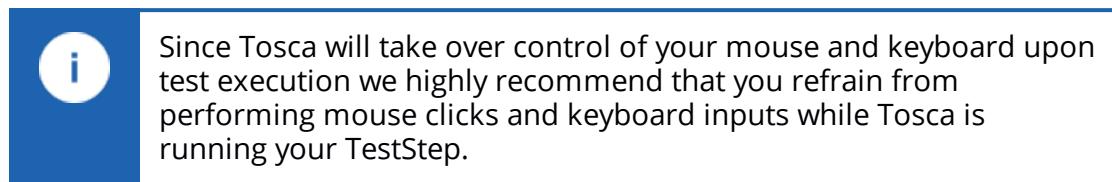


The screenshot shows the Tosca Commander interface with the TestCases tree expanded. A context menu is open over the "Vehicle Data" TestStep in the "Automobile" module. The menu items are:

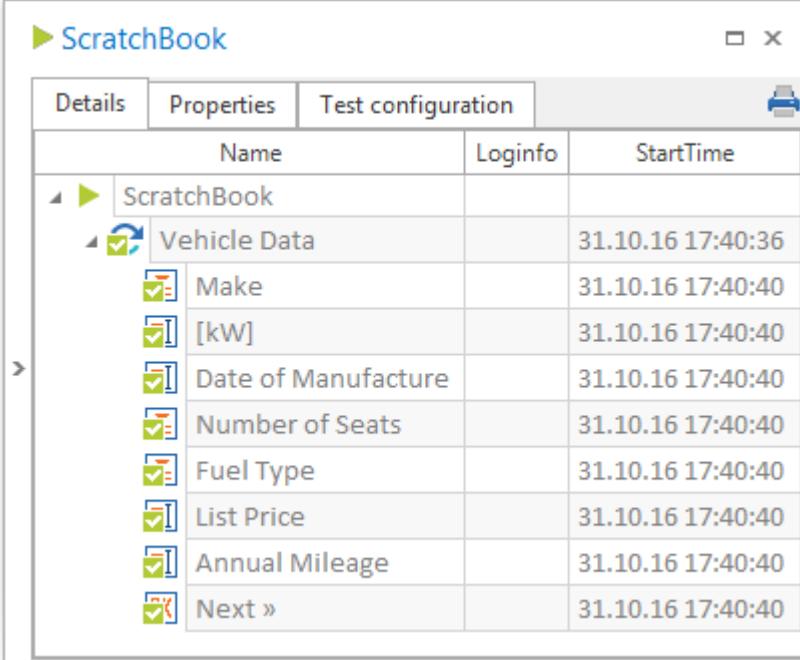
- Jump to Module (Ctrl+J)
- Allow reorder
- Synchronize
- Disable (F7)
- Add TestStep (Ctrl+T)
- Run in ScratchBook** (F6) - This item is highlighted with a blue background.

Illustration 79: Running the TestStep in Scratchbook

The **ScratchBook** window opens and Tosca runs the **Vehicle data** TestStep.



The **ScratchBook** window lists the executed TestSteps. In the illustration below you can see the **Vehicle data** TestStep along with the execution results.



Name	Loginfo	StartTime
ScratchBook		
Vehicle Data	31.10.16 17:40:36	
Make	31.10.16 17:40:40	
[kW]	31.10.16 17:40:40	
Date of Manufacture	31.10.16 17:40:40	
Number of Seats	31.10.16 17:40:40	
Fuel Type	31.10.16 17:40:40	
List Price	31.10.16 17:40:40	
Annual Mileage	31.10.16 17:40:40	
Next »	31.10.16 17:40:40	

Illustration 80: **ScratchBook**

Congratulations! You've successfully completed this tutorial.

At this stage you should be familiar with the main important processes in Tosca.

Related chapters

- [Tosca Commander Manual - chapter ExecutionLists](#)