



API Exercises

API

Exercise 8a – API TestCases

Objective

By the end of this exercise, you will be able to create an automated TestCase from an existing API Scan export.

Why is this important?

Being able to use Tosca to automate API tests will help you test functions not visible in the user interface as well as reduce testing time by testing earlier and faster.

Project perspective

Your task now is to test the products in the DemoWebShop, which were changed recently. The SKU of some products are now different. You want to verify if the product Bluejeans still has the same SKU or ID. Since you cannot see the SKU of a product on the UI of the DemoWebShop, you need to use an API TestCase. The web developers have provided you with the API Scan data as a subset.

Instructions

1. In the TestCase section, create a new folder under the root folder and name it "API".
2. In the "API" folder, create a new folder and name it "8a API TestCase".
3. Create a TestCase in this folder and name it "Verify Product by SKU".
4. Add the Module "GetProductBySku" and "GetProductBySku Response" to the TestCase.
5. Add the following Values as the example shows below:

Name	Value	ActionMode	DataType
Verify Product by SKU			
GetProductBySku			String
sku	BlueJeans	Insert	String
usernameOrEmail	{CP[Email]}	Insert	String
userPassword	{CP[Password]}	Insert	String
GetProductBySku Response			
Id	36	Verify	String
Name	Blue Jeans	Verify	String

7. Set the TestCase **Workstate** to "Completed".
8. Run the TestCase in the **Scratchbook**.

Hints

- » Make sure to use the correct ActionMode to verify the Response values.

Exercise 8b – Convert to Template, Link Values and Instantiate

Objective

By the end of this exercise, you will be able to create API TestCases, using Values from a TestSheet.

Why is this important?

An API TestCase works just like a normal TestCase in Tosca, which means you can convert it to a Template, link a TestSheet and Instantiate. In the case of UI testing, this means easier execution and faster maintenance.

Project perspective

After creating the API TestCase to verify a product by its SKU, you will also need to link it to a TestSheet to be able to check the SKU of, not only Blue Jeans, but other products as well.

Instructions

1. Duplicate the folder "**8a API TestCase**" and rename it "**8b Convert to Template, Link Values and Instantiate**".
2. Convert the "**Verify Product by SKU**" TestCase to a Template.
3. Link the TestSheet "**Verify Product by SKU**" in the folder "**8 API**" in the TestCaseDesign section to the Template.
4. Link the Attributes from the TestSheet "**Verify Product by SKU**" to the TestStepValues, as the example shows below.

Name	Value	ActionMode	DataType
Verify Product by SKU			
GetProductBySku			
sku	{XL[sku]}	Insert	String
usernameOrEmail	{XL[Email]}	Insert	String
userPassword	{XL[Password]}	Insert	String
GetProductBySku Response			
Id	{XL[Id]}	Verify	String
Name	{XL[Name]}	Verify	String

5. If there is any extra Value showing up next to the newly linked XL paths, delete the extra Values.
6. Instantiate the **Template**.
7. Run the TemplateInstances in the **Scratchbook**.

Hints

- » Before you drag and drop Values from the TestSheet to the Template, make sure to delete the existing Values in the TestStepValues.