Tricentis

Automation Engineer Level 1

Exercise 1c

Verify special technical properties of Excel cell

Objective

By the end of this exercise, you will make use of Tricentis Tosca's Excel Engine 3.0 to verify the special technical properties of Excel cells.

Why is this Important?

In Tricentis Tosca, you can edit, buffer and verify the technical properties of Excel cells such as Formula, FontStyle, FontColor, and Comments. This exercise will enable you to use these special cell properties in Tosca.

Project Perspective

Excel is used all across to store data and is integrated with many SUTs. There are applications that generate excel files as an output that contains the data that might require verification. In such cases the Excel Engine 3.0 of Tosca comes in handy.

Instructions

1. Download the Excel file – **Sales_Data.xlsx** from the downloads section of this lesson and move it to the path **C:\Tosca_Projects** in your system
2. Log in to Tosca Commander and navigate to the path **AE1 Exercises>>TestCases>>Excel Engine** and create a new **TestCase** in this folder and name it as **Verify special technical properties of Excel cell**
3. Within this TestCase, create three **TestStepFolders** – 'Precondition', 'Process', and 'Postcondition'
4. Add the Standard Module **TBox Open Excel Workbook** into the folder **Precondition** and rename it as **Open Excel workbook**
5. Input **Values** as shared in the table below:

TestStep Value	Value	ActionMode
Workbook Name	Sales_Data	Input
Path	C:\Tosca_Projects\ Sales_Data.xlsx	Input

6. Add the Standard Module **TBox Define Excel Range** into the folder **Precondition** and rename it as **Define Excel range**

7. Input **Values** as shared in the table below:

TestStep Value	Value	ActionMode
Workbook Name	Sales_Data	Input
Worksheet Name	Employee_Data	Input
Range Name	SalesDataRange	Input
Start Cell	A1	Input
End Cell	K7	Input

8. Add the Standard Module **TBox Excel Range Manipulation** into the folder **Process** and rename it as **Verify properties of cell**

9. Input **Values** as shared in the table below:

TestStep Value	Value	ActionMode
Range Name	SalesDataRange	Input
Data Table		Select
Enter values in $header row to verify the cell properties		
$header		Select
$1	.FontStyle==Bold	Verify
Enter values in $1 row to verify the cell properties		
$1		Select
FirstName	.BackgroundColor==R=255,G=255,B=0	Verify
LastName	.FontSize==11	Verify
Total	.HasFormula==True	Verify
Total	.Formula===SUM(F2:I2)	Verify
EmployeeId	.FontStyle==Regular	Verify
EmployeeId	.FontColor==R=0,G=0,B=0	Verify

10. Add the Standard Module **TBox Close Excel Workbook** into the folder **Postcondition** and rename it as **Close Excel workbook**

11. Input **Values** as shared in the table below:

TestStep Value	Value	ActionMode
Workbook Name	Sales_Data	Input
Path	C:\Tosca_Projects	Input
Save	True	Input

12. Mark the TestCase **Completed** and run it in ScratchBook.

Expected outcome

The TestCase should be executed successfully, and the cell properties of the Excel would be verified.

Hints

1. You can enter the special technical properties of Tosca's Excel Engine 3.0 by:
    a. Performing two single clicks on the Value of a TestStepValue
    b. Clicking the downward arrow
    c. Entering the property in the left text box, the value in the right text box, and selecting the operator
2. You can also use the action mode **Input** to modify a property and **Buffer** to buffer a property of the cells in Tosca's Excel Engine 3.0