

Automation Engineer Level 1

Exercise 1d

Excel UI Engine TestCase



Objective

By the end of this exercise, you will be able to make use of the Excel UI Engine 3.0 in Tosca to scan the Excel workbooks as a System Under Test and perform UI interactions with the elements in it.

Why is this Important?

For basic file operations, Excel Engine 3.0 is quicker and more convenient. It allows you to steer the Microsoft Excel user interface (UI).

You can use the Excel UI Engine 3.0 to steer any of the following:

- Controls embedded within worksheets
 - The Excel ribbon menu and various options menus, including those of custom add-ins
 - Excel application dialog windows
 - Other features that are part of the Microsoft Excel application UI for example a Pivot table
-

Project Perspective

Excel is used all across to store data and is integrated with many SUTs. There are use cases where you would be required to automate test steps for interacting with Excel as a UI application such as interacting with the embedded controls, Pivot table etc.

Instructions

1. Download the Excel file – **Excel_UI.xlsx** from the downloads section of this lesson and move it to **C:\Tosca_Projects** in your system and open the Excel file
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 **Excel UI test case**
3. Navigate to the path **AE1 Exercises>>Modules>>Excel Engine**, launch the **XScan** and select **Application**
4. Select the opened Excel workbook window for scanning and then select the **Employee_Data** table, **Data for John Present** check box, **Save** button and **Close** button controls.
5. Save the module, close the XScan window and add the scanned module to the **TestCase Excel UI test case**
6. Rename the **TestStep** as **Verify and mark the data presence**
7. Input **Values** as shared in the table below:

TestStep Value	Value	ActionMode
Employee_Data		Select
Enter values in \$2 row to verify data		
\$2		Select
\$2	John	Constraint

TestStep Value	Value	ActionMode
Data for John Present	True	Input

8. Add the Module **Excel_UI - Excel** again to the TestCase **Excel UI test case** and rename the **TestStep** as **Save and close the workbook**
9. Input **Values** as shared in the table below:

TestStep Value	Value	ActionMode
Save	X	Input
Close	X	Input

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

Expected outcome

The TestCase should be executed successfully, and the checkbox **Data for John Present** should be checked.

Hints

1. You can use Excel UI for steering the UI applications in Excel files that cannot be steered using the Excel Engine 3.0 standard modules in Tosca
2. You can steer the controls as well as macros using Excel UI and Tosca will treat them as a UI application