

KATALON

ARCADIER01

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Introduction

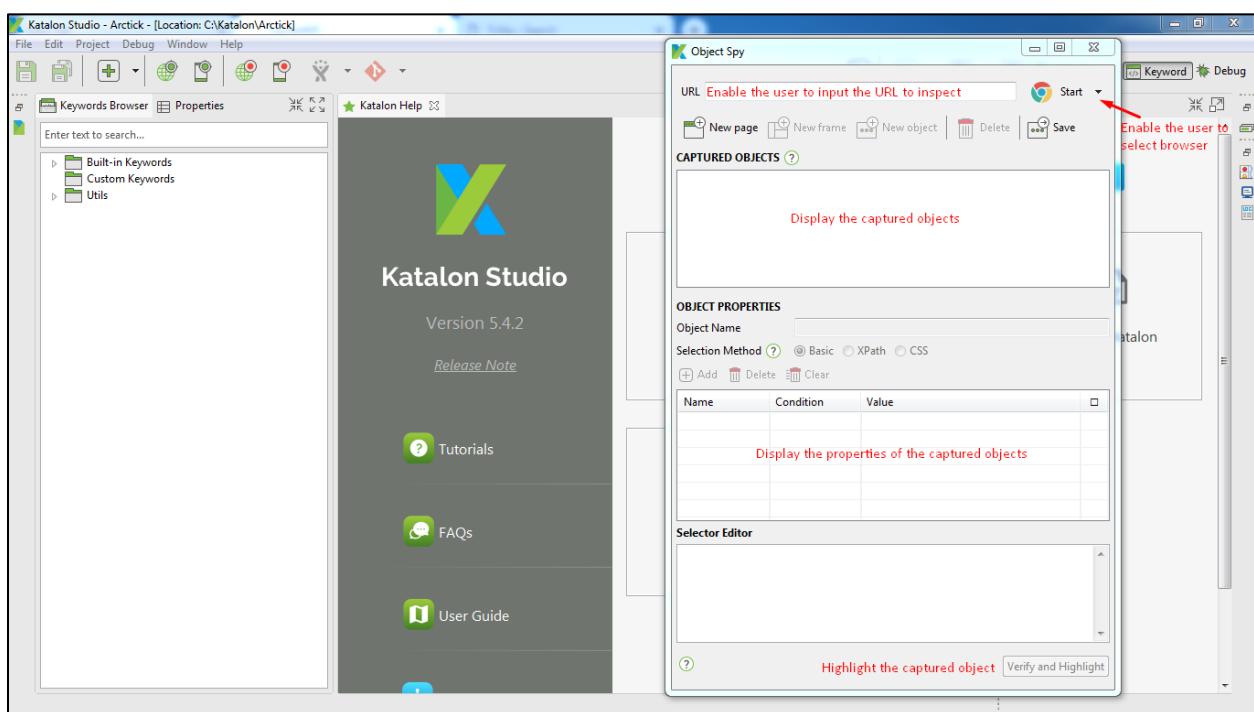
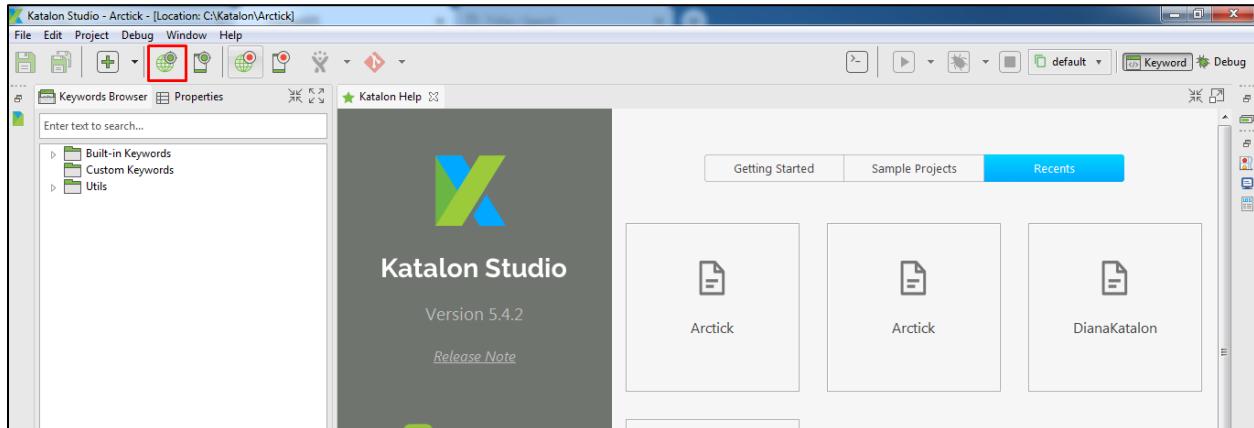
Katalon Studio is a free automation testing solution developed by Katalon LLC. The software is built on top of open-source automation frameworks Selenium, Appium with a specialized IDE interface for API, Web and Mobile testing. Its first public release was in September 2016.

Glossary

- **Test Case** – Is a set of conditions or variables under which a tester will determine whether a system under test satisfies requirements or works correctly.
- **Test Suite** - Commonly known as a 'validation suite', is a collection of test cases that are intended to be used to test a software program to show that it has some specified set of behaviors.
- **Object Repository** - is a collection of **object** and properties with which QTP will be able to recognize the **objects** and act on it.
- **Data Driven** - It define a testing has been done using a table of conditions directly as test inputs and verifiable outputs.
- **Spy Web** – It is used for capturing objects. Object properties and locating method can be specified by users

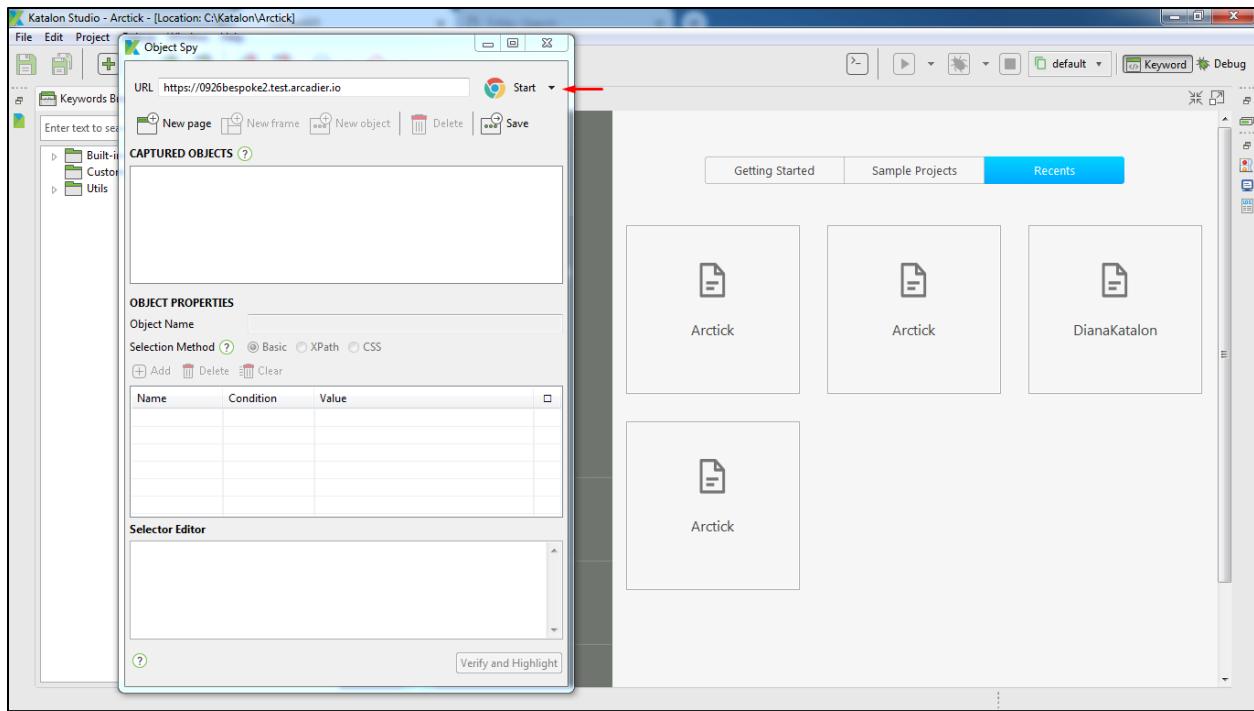
How to Use Spy Web

1. Click on Spy Web from the main toolbar.

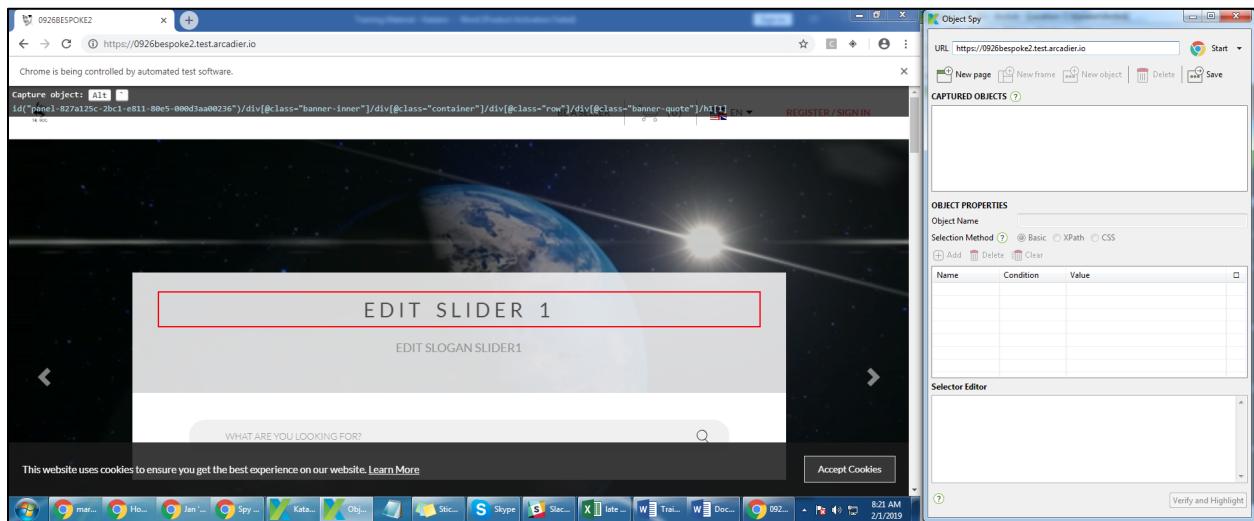


The Object Spy dialog will be displayed

2. Click on Start to begin capturing objects from the web browser.

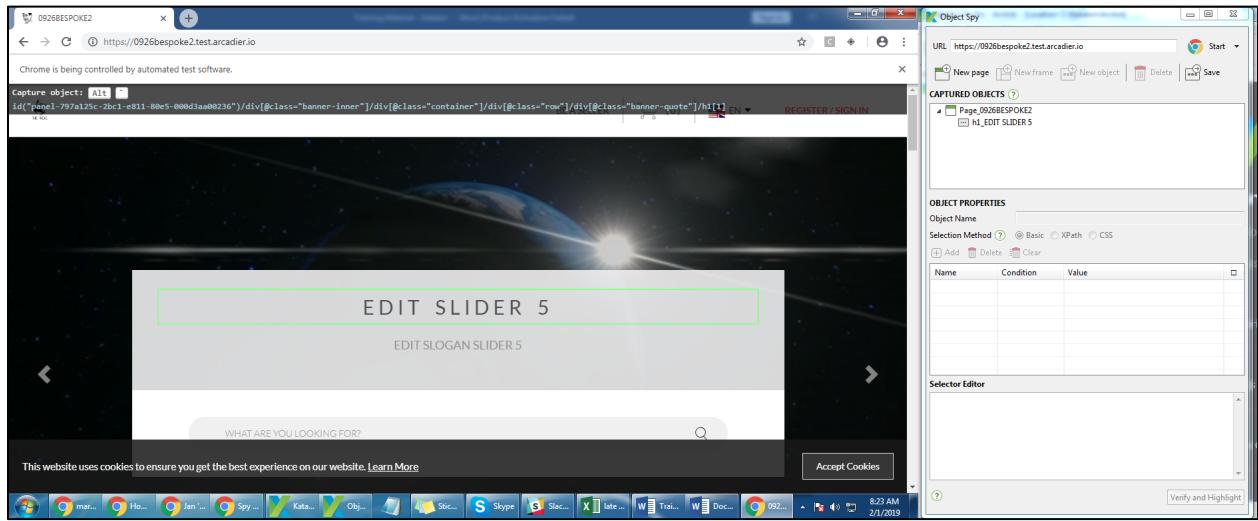


3. Your selected browser will be launched. Navigate to your website, then hover the mouse cursor over the web object to be captured.



The web object will be highlighted with a red border. An overlay pane will also be displayed at the edge of the screen to show relevant xpath info.

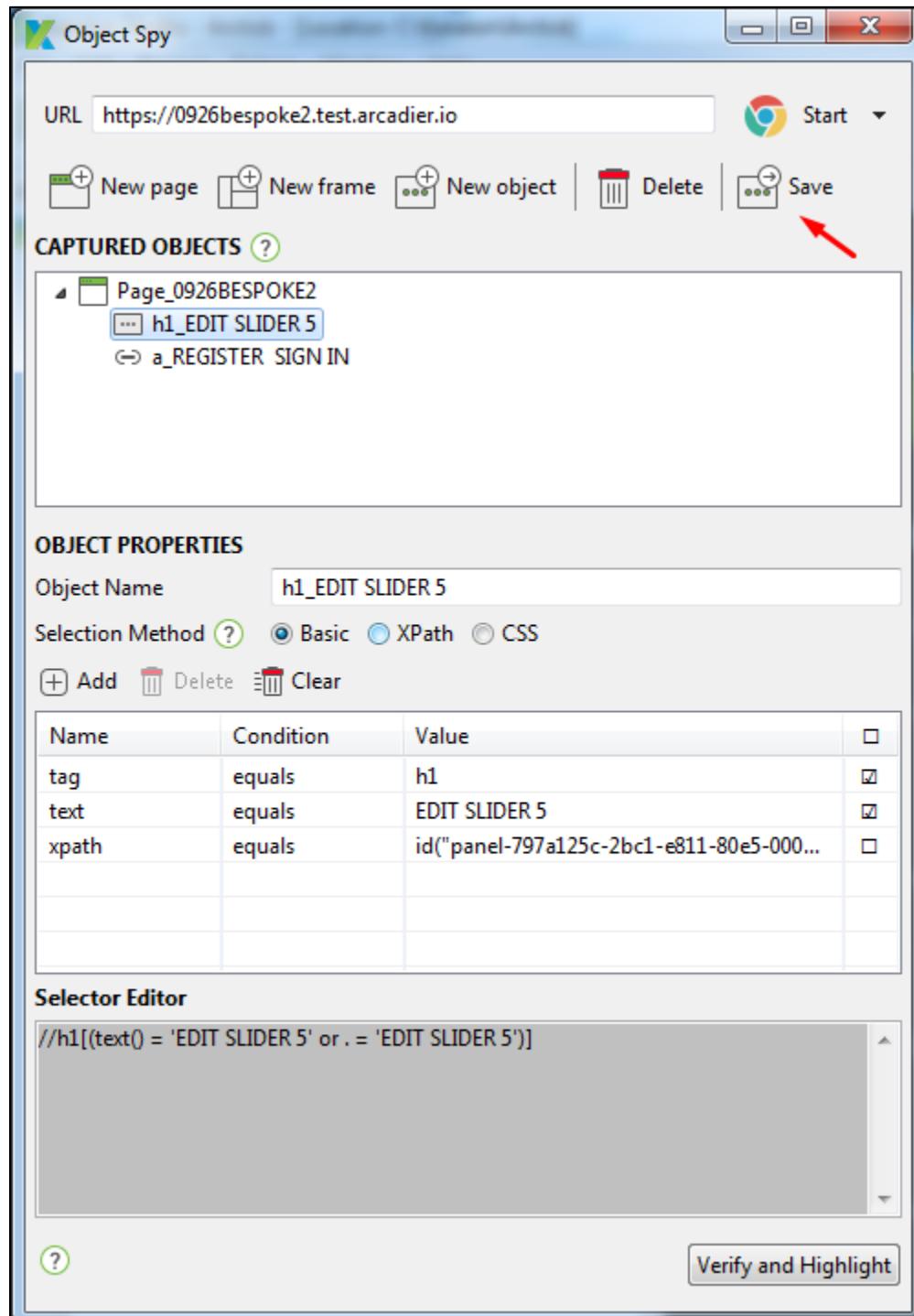
4. Press the combination of <Alt + back quote> keys on the keyboard to capture object. The object will be highlighted in the green border.

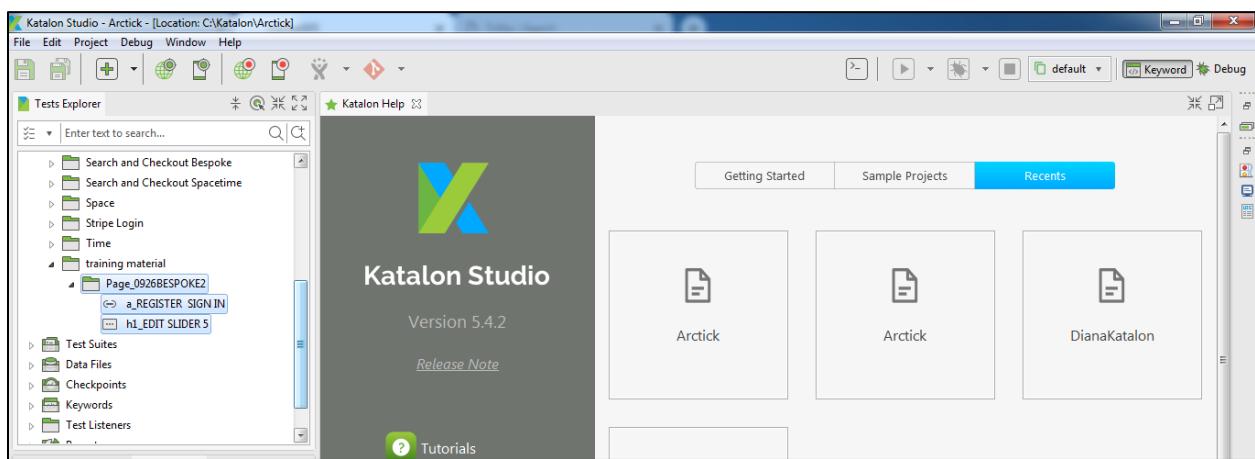
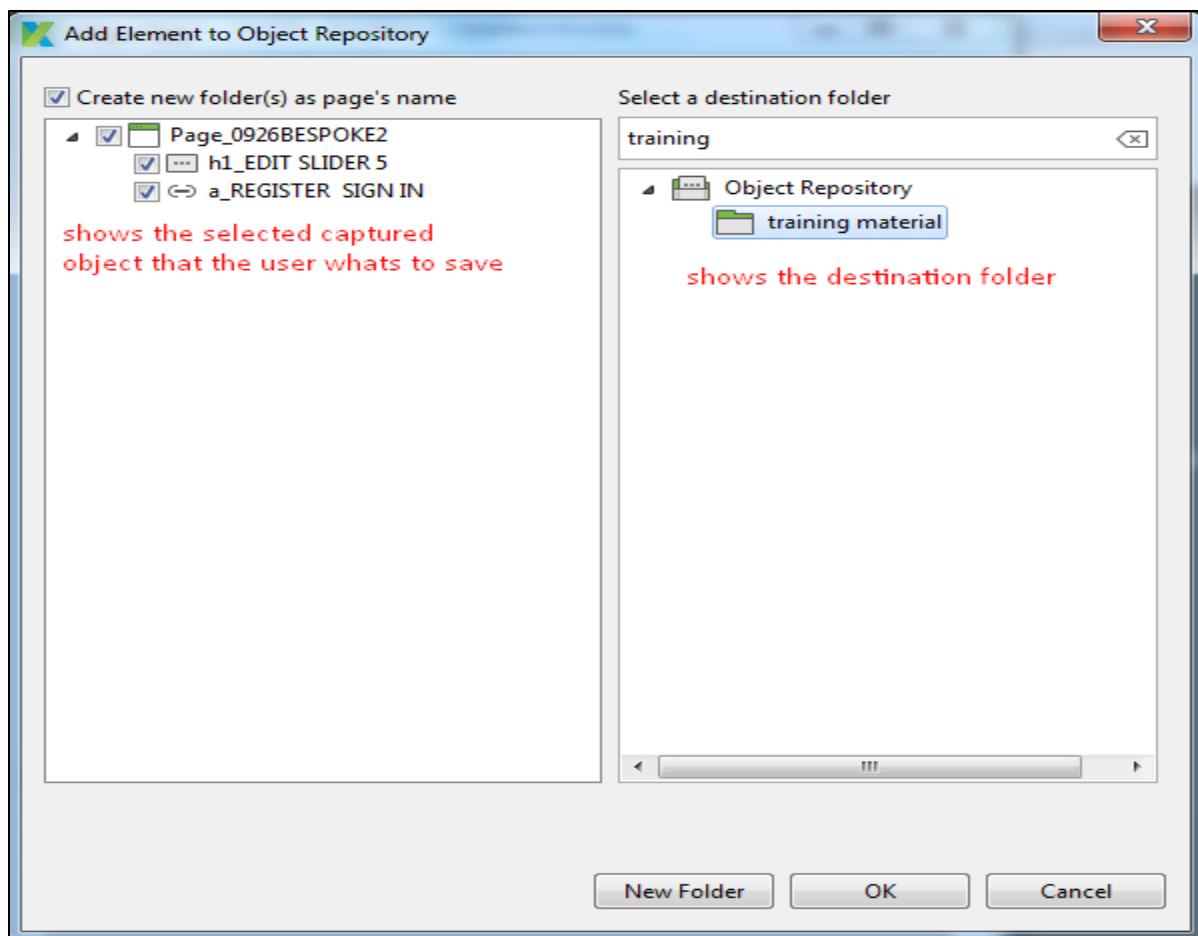


*Captured objects will appear in the Object Spy dialog.
Select the object in the Captured Objects tree, its details will be displayed in the Object Properties section.*

Saving Captured objects of spy web

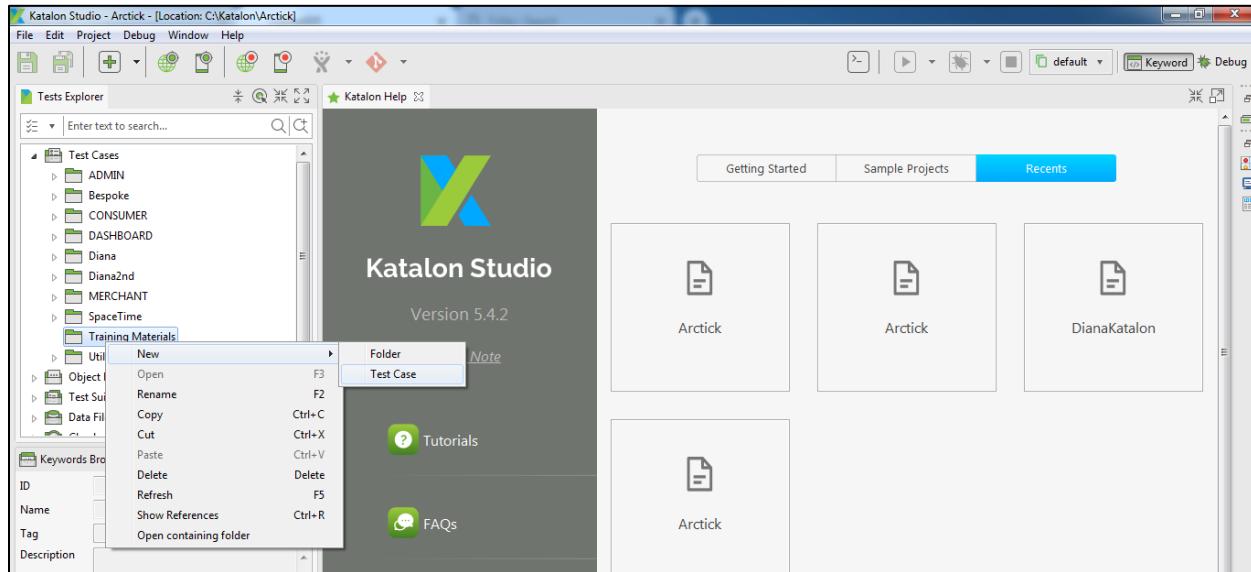
- Upon completing the capturing of web objects, click on the Save button



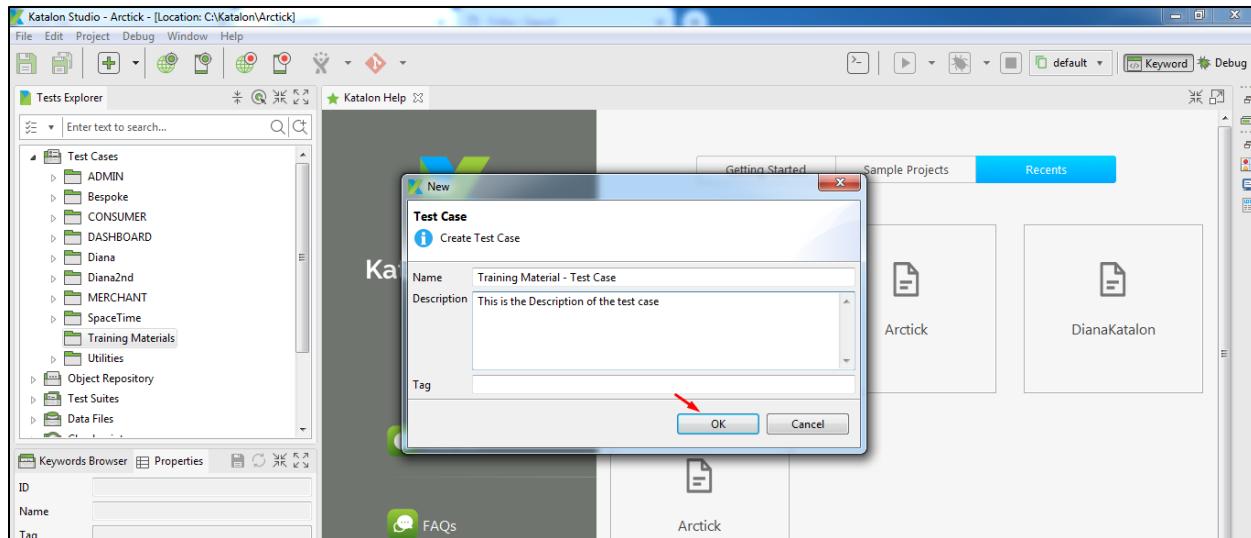


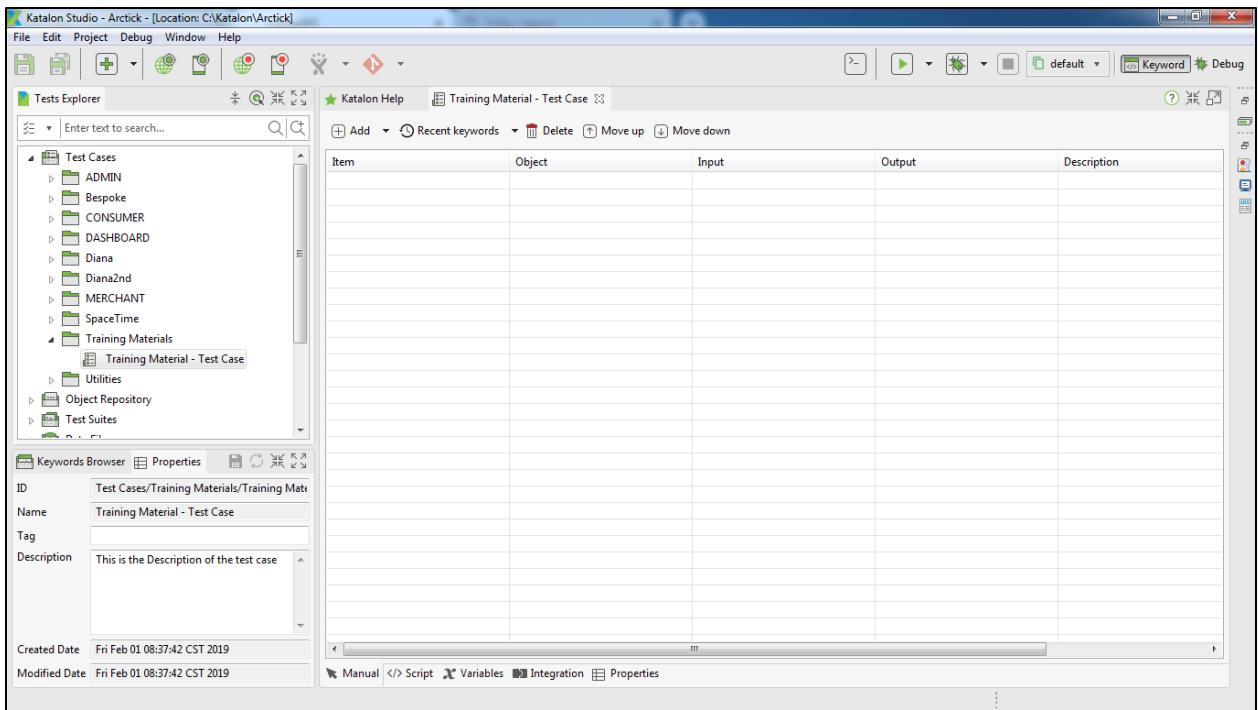
How to create Test Case

1. From the Tests Explorer Panel, navigate to Test Cases > '*Choose the Folder wherein user wants to add Test case*' > Right Click > Select New > Select Test Case



2. A Create Test Case pop up will display. Provide the name for the new test case, then click OK.

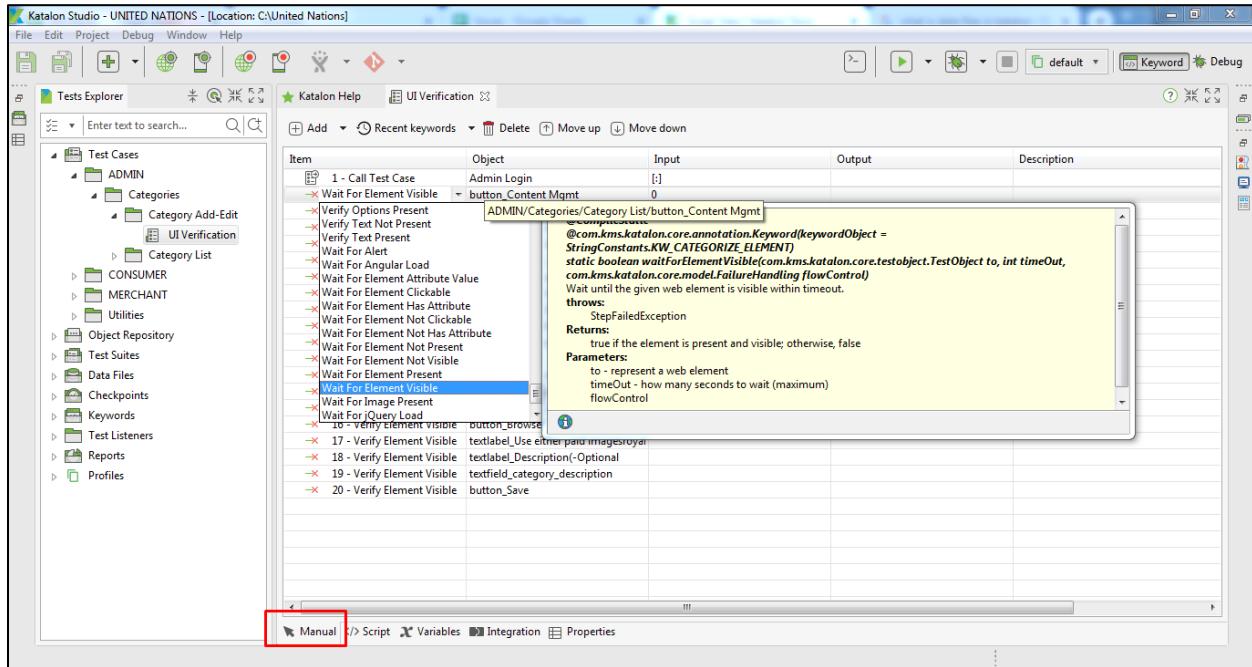




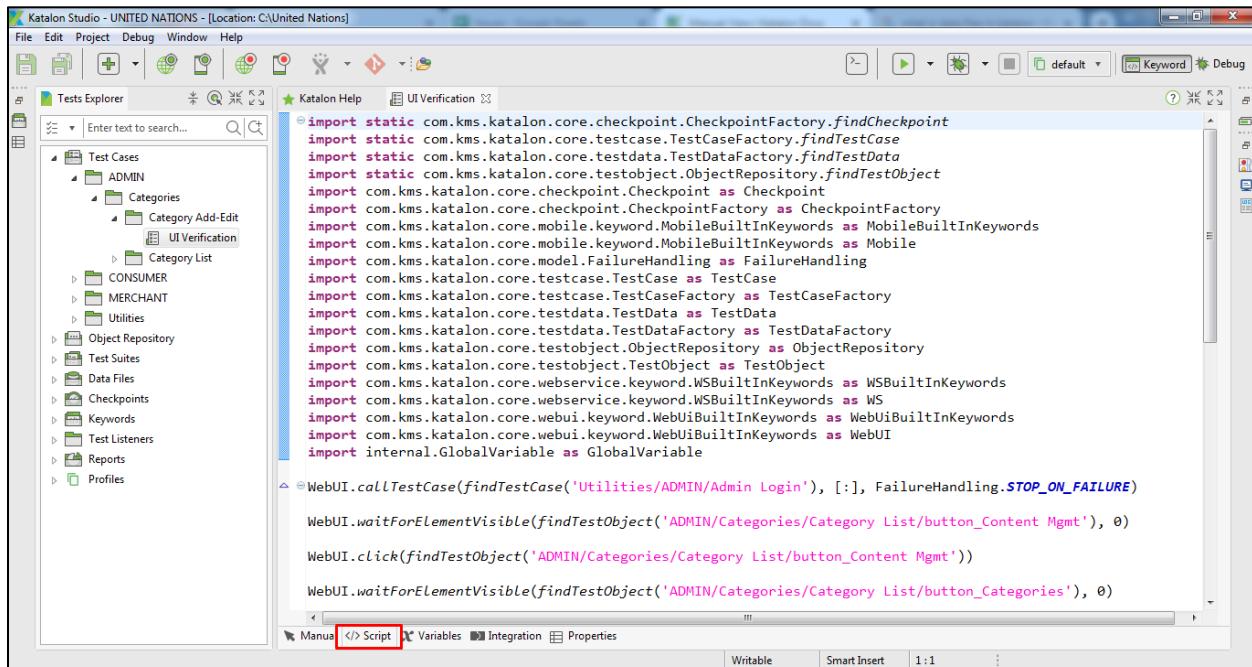
Once a new test case is created, it is opened in Manual view.

Test Case in different views

- Manual view



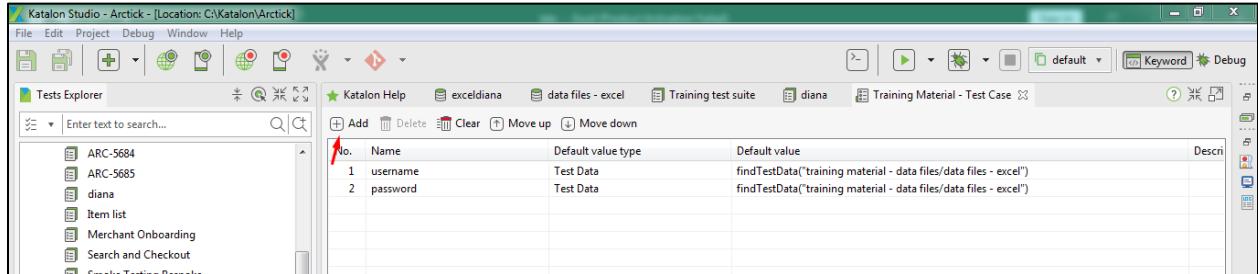
- Script View



How to add Variables Test Case

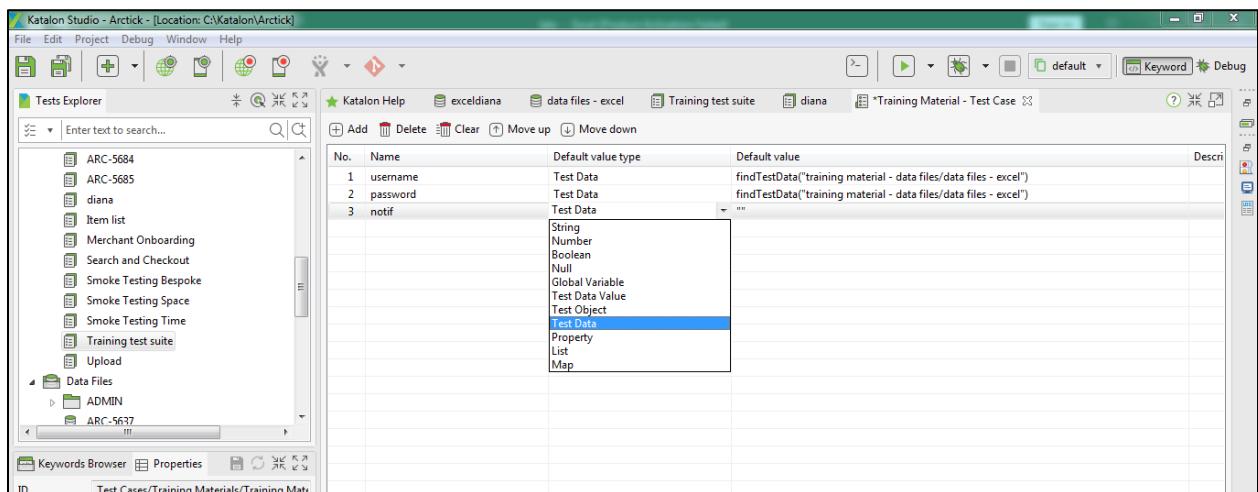
In creation of test suite that will use data driven method, the user should add the Variables to the Test Cases. Variables will reflect upon Binding the Data in Test Suite.

1. Click the Add button.

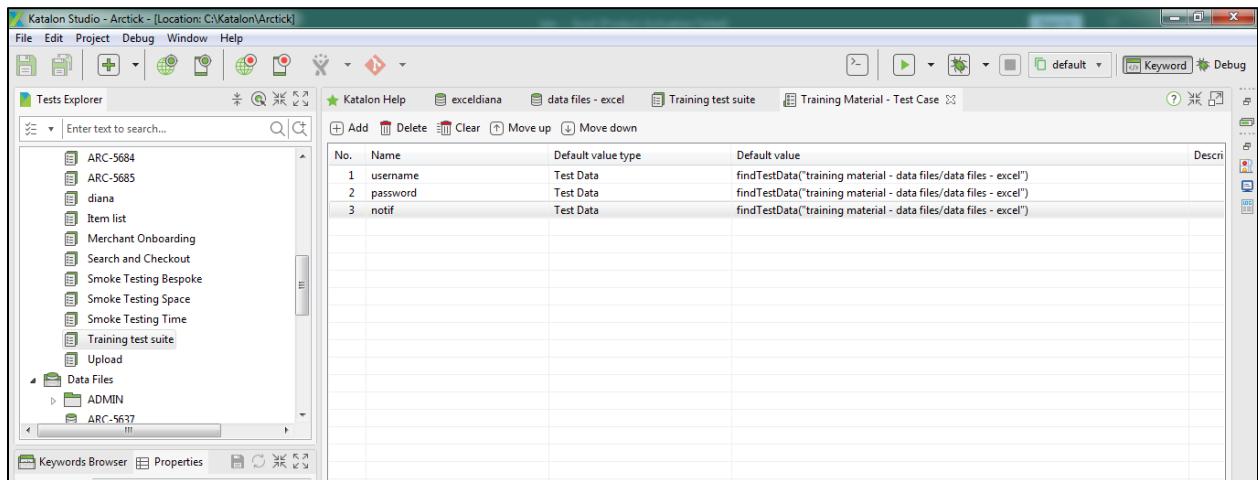
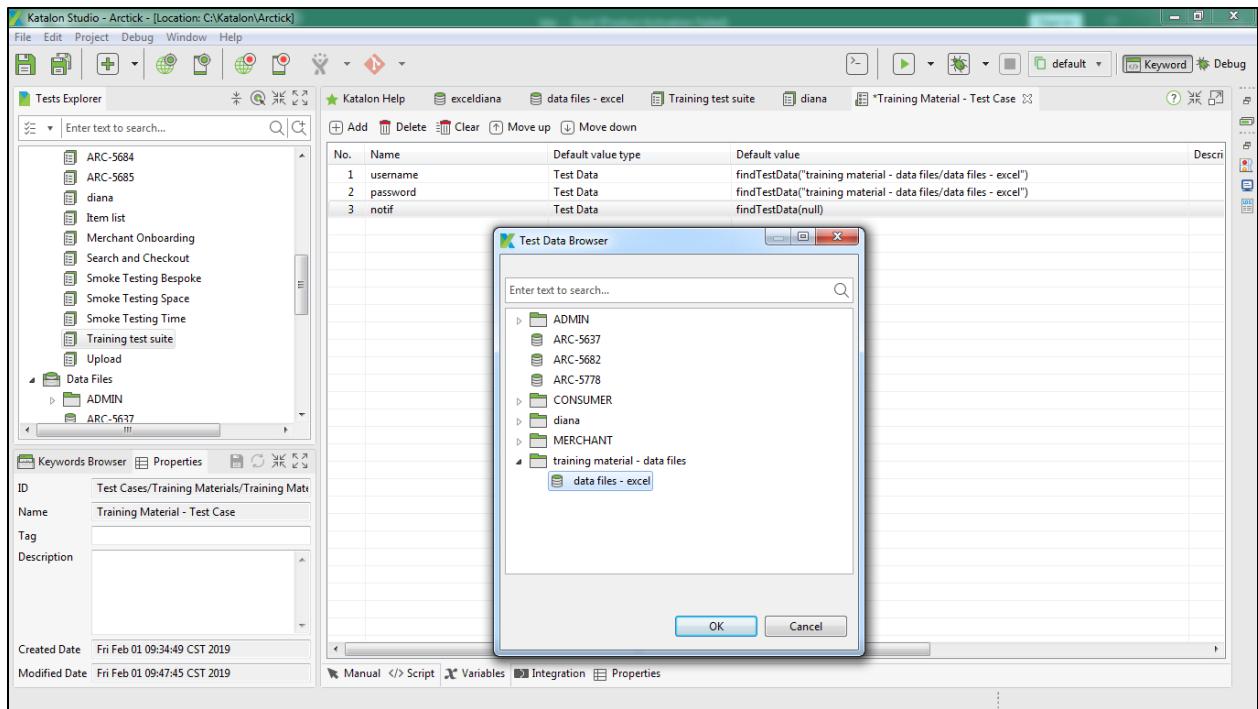


A new row will be added below the last entry.

2. Select a Default value type

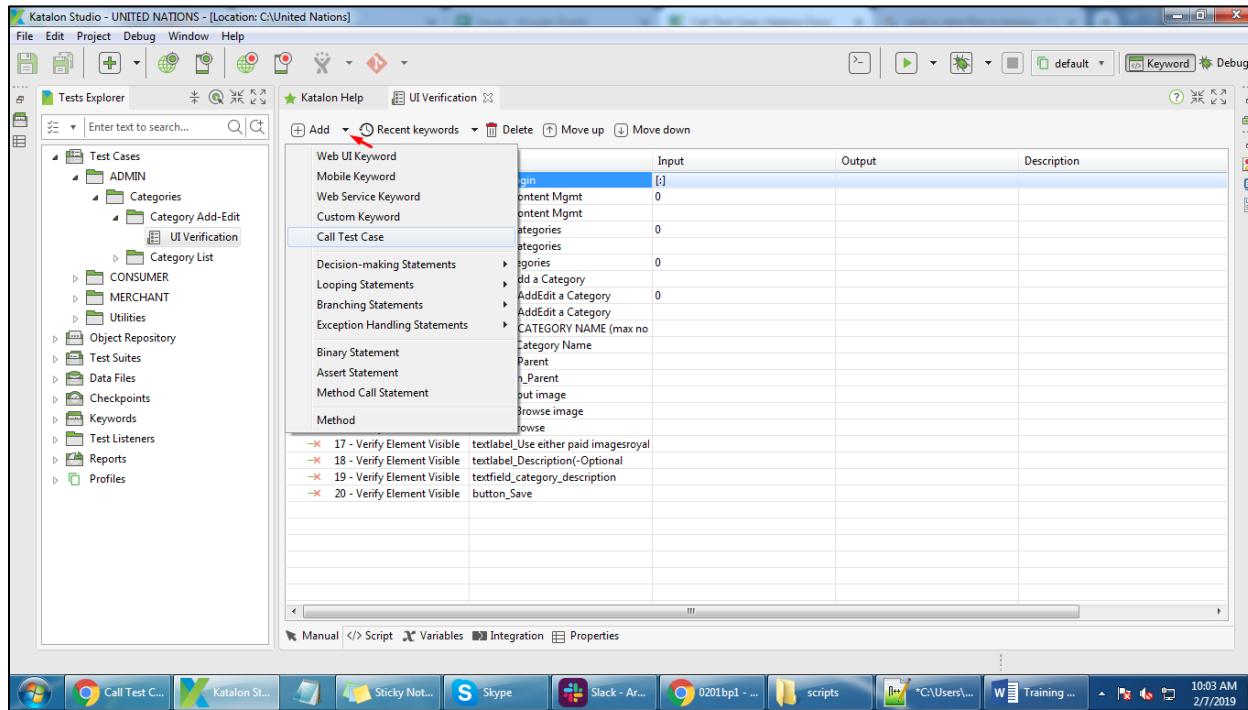


3. Select Default Value then click Save

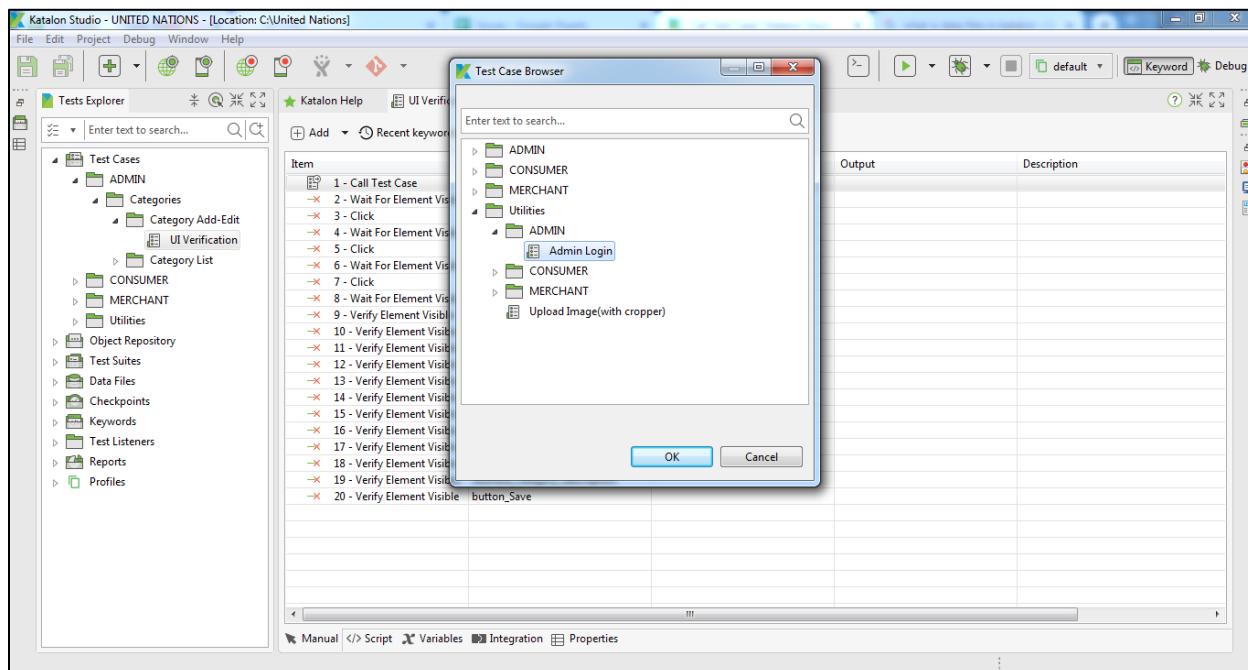


How to call Test Case

1. Open a test case in **Manual** view, then select option to add **Call Test Case** from command toolbar.



2. The **Test Case Browser** dialog which shows all existing test cases within the project will be displayed. Select the test case to be called and click **OK**.



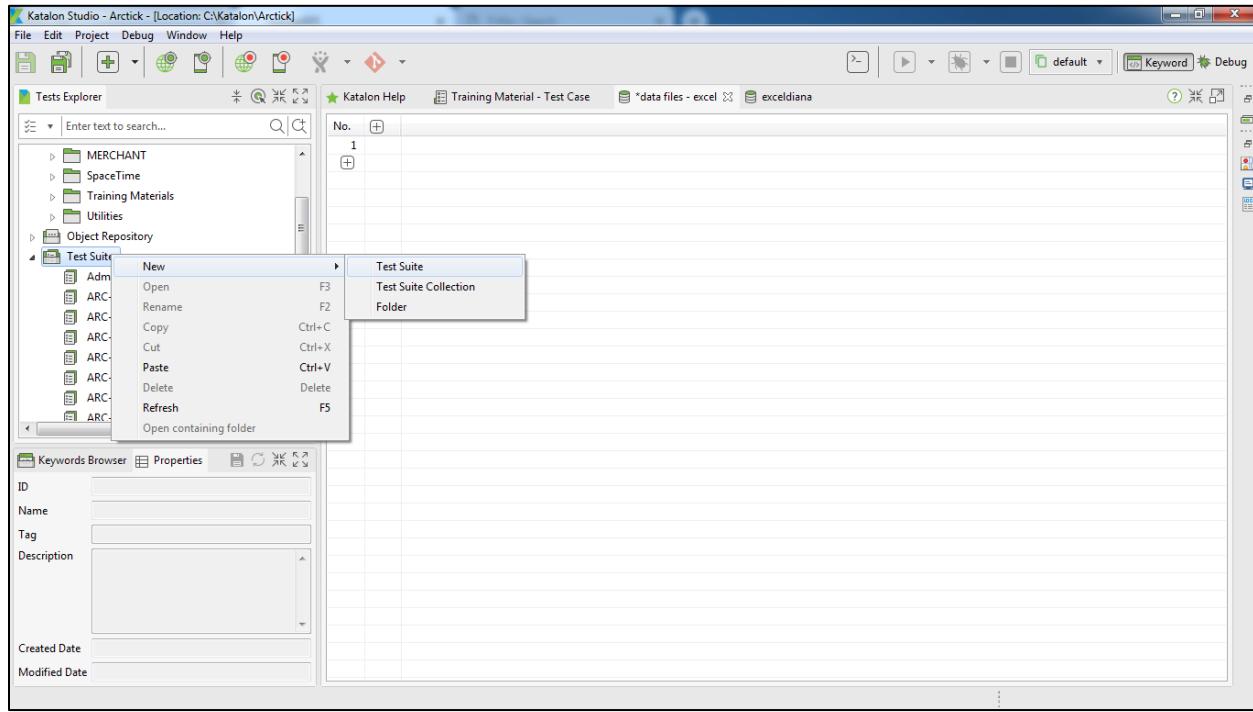
The screenshot shows the Katalon Studio interface. On the left, the Test Explorer panel displays a tree structure of test cases under the 'ADMIN' category, including 'Categories', 'Category Add-Edit', 'UI Verification', 'Category List', 'CONSUMER', 'MERCHANT', 'Utilities', 'Object Repository', 'Test Suites', 'Data Files', 'Checkpoints', 'Keywords', 'Test Listeners', 'Reports', and 'Profiles'. The 'UI Verification' node is expanded. On the right, the Keyword List panel shows a table with columns: Item, Object, Input, Output, and Description. The 'Item' column lists steps such as '1 - Call Test Case', '2 - Wait For Element Visible', '3 - Click', etc. The 'Object' column shows element identifiers like 'Admin Login', 'button_Content Mgmt', 'button_Categories', etc. The 'Input' column contains values like '[]', '0', '0', etc. The 'Description' column provides a brief description of each step. A red box highlights the first row, '1 - Call Test Case'. The status bar at the bottom shows various icons and the text '10:04 AM 2/7/2019'.

Item	Object	Input	Output	Description
1 - Call Test Case	Admin Login	[]		
2 - Wait For Element Visible	button_Content Mgmt	0		
3 - Click	button_Content Mgmt			
4 - Wait For Element Visible	button_Categories	0		
5 - Click	button_Categories			
6 - Wait For Element Visible	logo_Categories			
7 - Click	button_Add a Category	0		
8 - Wait For Element Visible	textlabel_AddEdit a Category	0		
9 - Verify Element Visible	textlabel_AddEdit a Category			
10 - Verify Element Visible	textlabel_CATEGORY NAME (max no			
11 - Verify Element Visible	textfield_Category Name			
12 - Verify Element Visible	textlabel_Parent			
13 - Verify Element Visible	dropdown_Parent			
14 - Verify Element Visible	image_input image			
15 - Verify Element Visible	textfield_Browse image			
16 - Verify Element Visible	button_Browse			
17 - Verify Element Visible	textlabel_Use either paid imagesroyal			
18 - Verify Element Visible	textlabel_Description:Optional			
19 - Verify Element Visible	textfield_category_description			
20 - Verify Element Visible	button_Save			

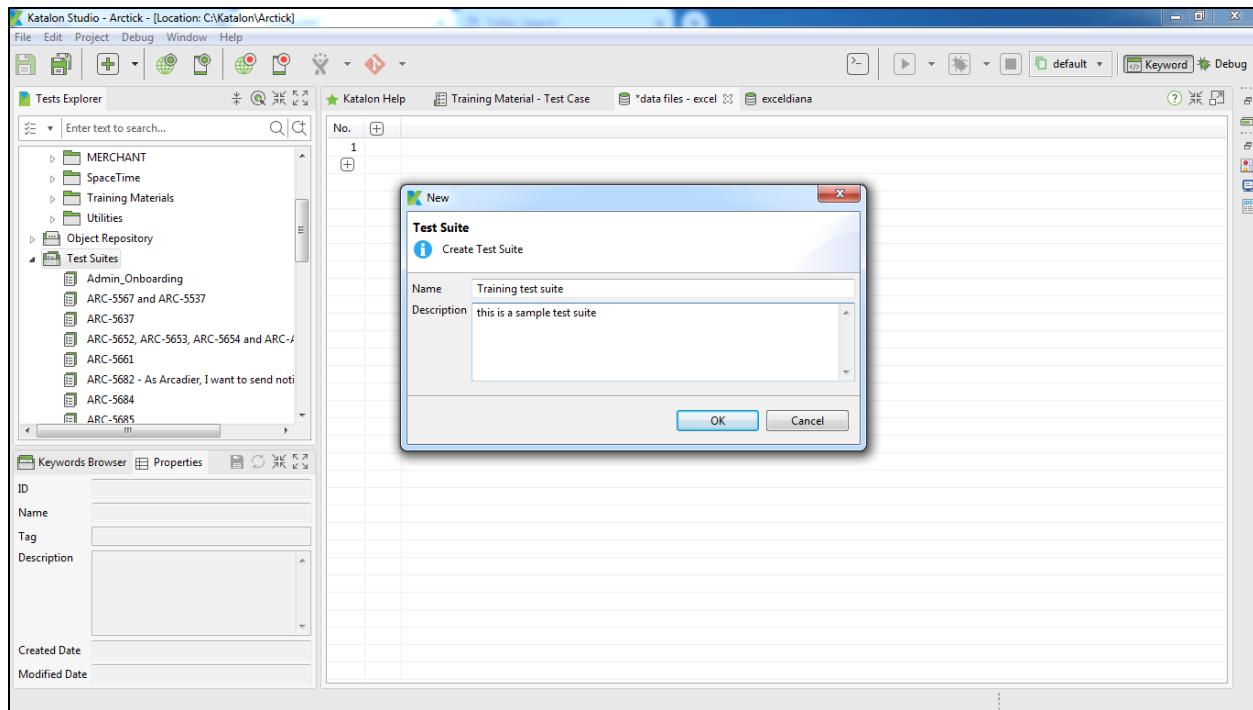
A **Call Test Case** step will be added with the selected test case above as its target.

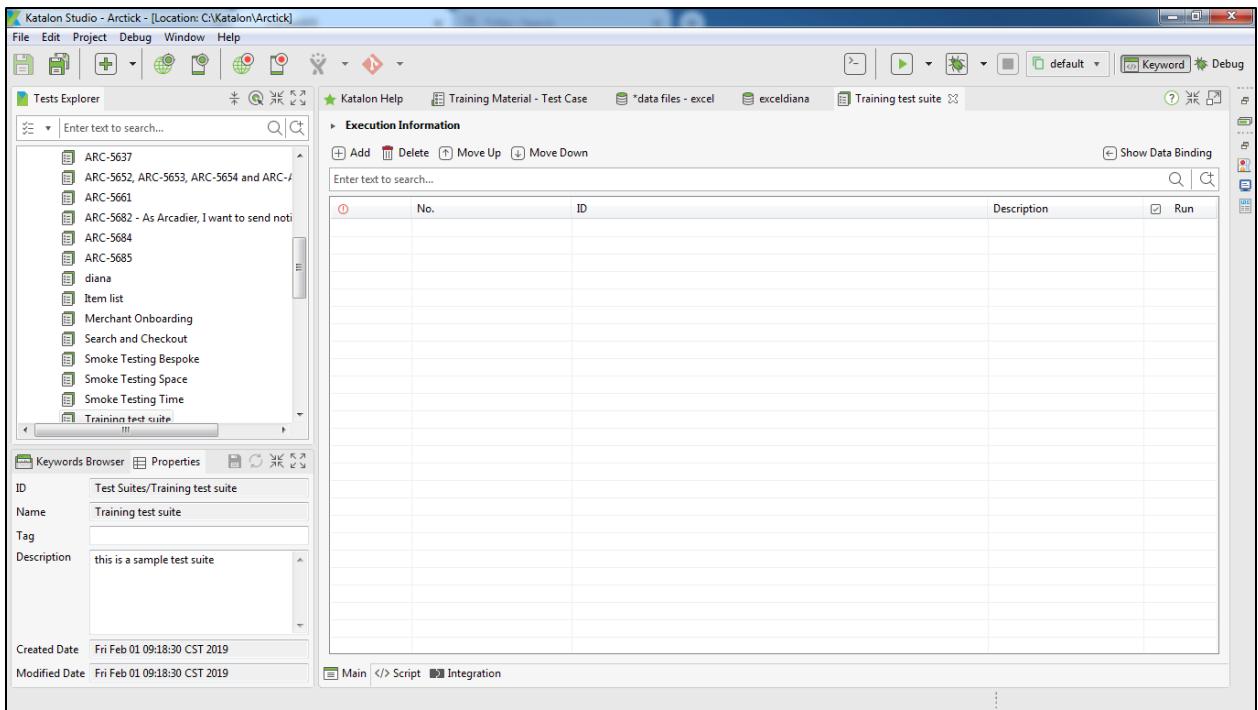
How to Add Test Suite

1. From the Tests Explorer Panel, navigate to Test Suite > '*Choose the Folder wherein user wants to add Test case*' > Right Click > Select New > Select Test Suite



2. A Create Test Suite pop up will display. Provide the name for the new test suite, then click OK.

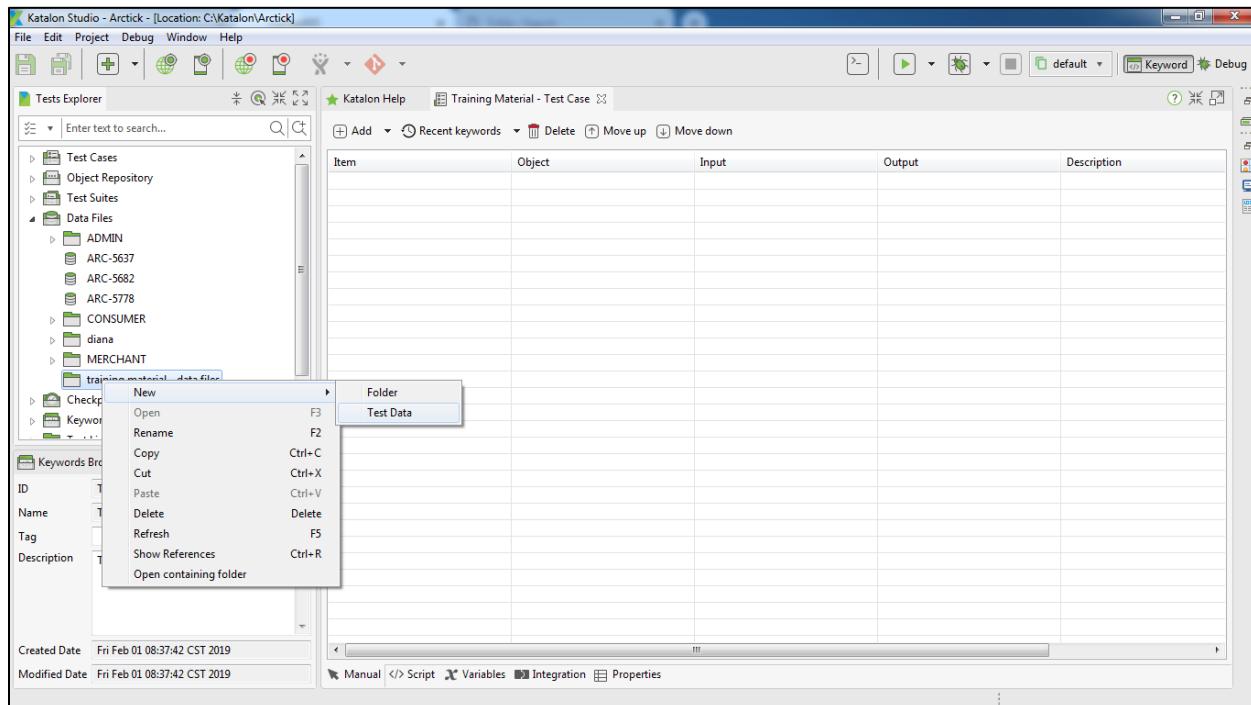




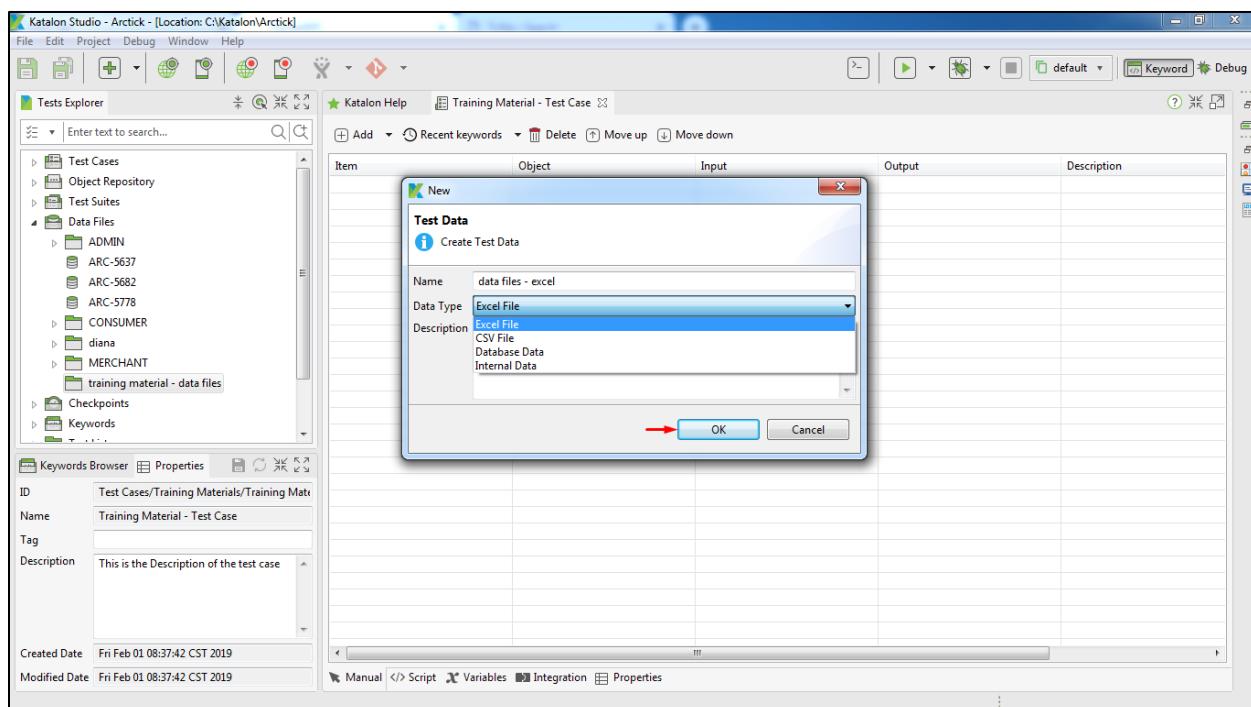
Once a new test suite is created, it is opened in Main view.

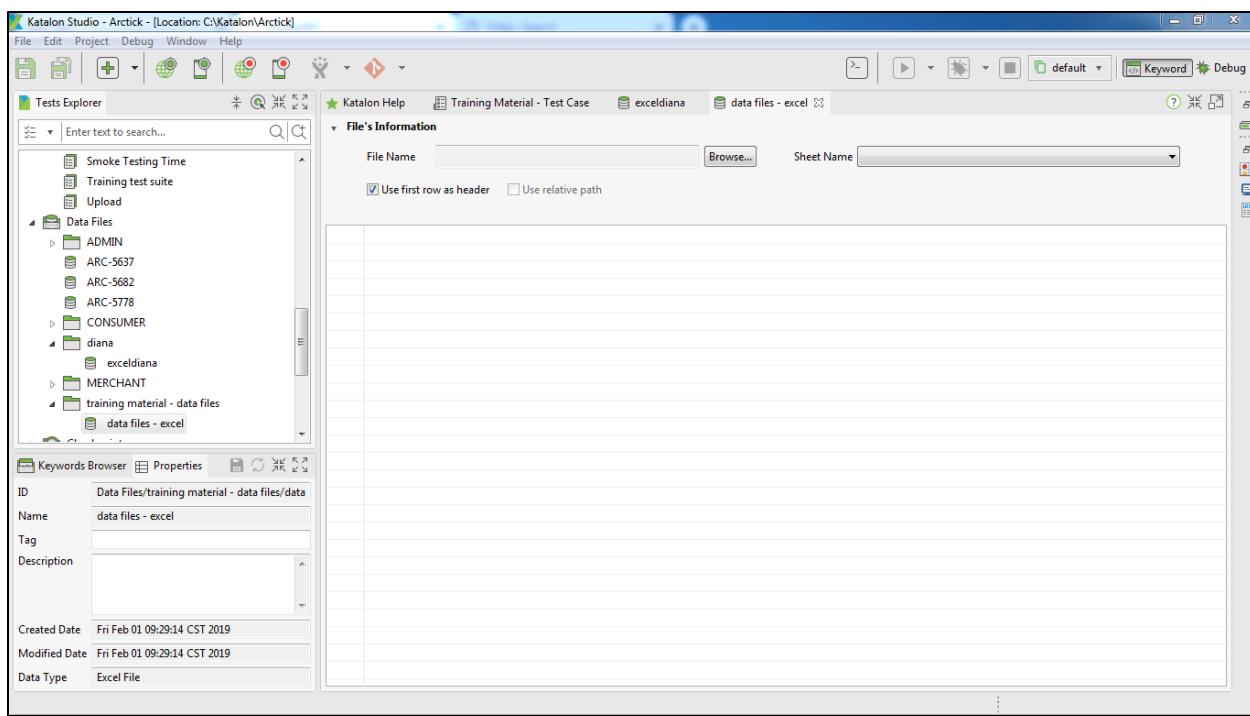
How to Create Data Files

1. From the Tests Explorer Panel, navigate to Data Files > 'Choose the Folder wherein user wants to add Test case' > Right Click > Select New > Select Test Data



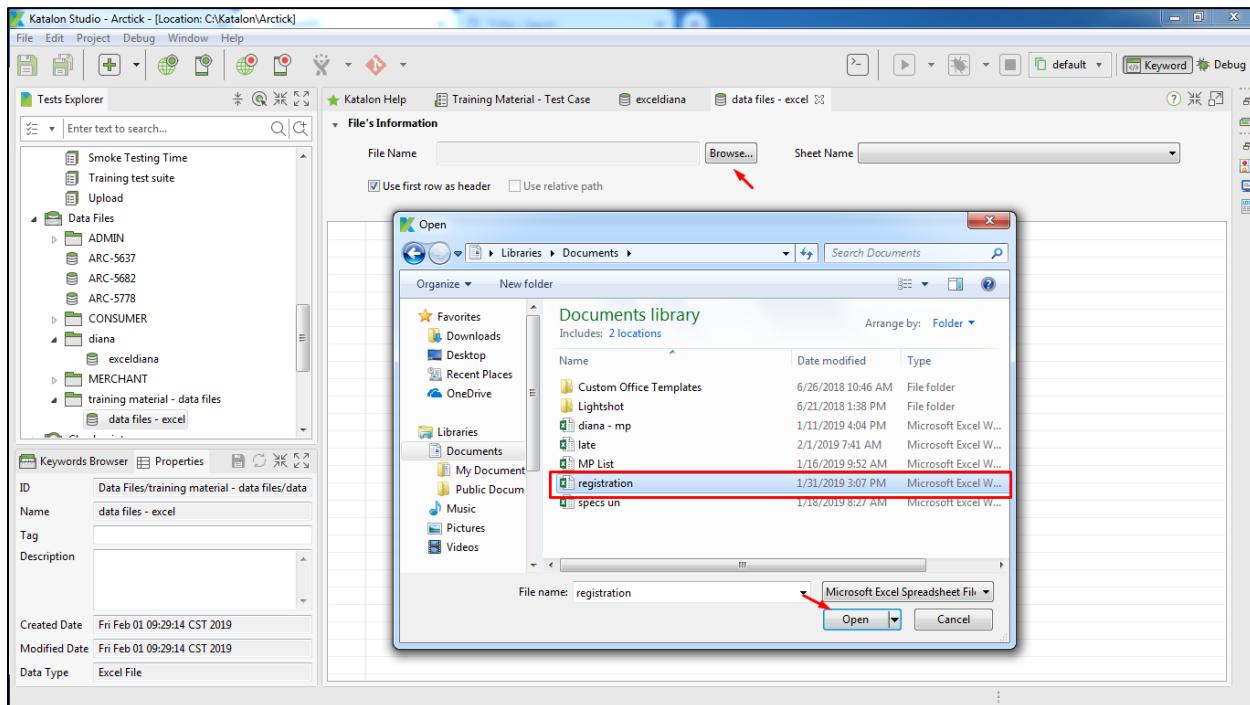
2. A Create Test Data pop up will display. Provide the name for the new test data, then click OK.





Once a new test data is created, it is opened in Main view.

3. To add a file in the Test Data, click Browse button then select the file to be upload.

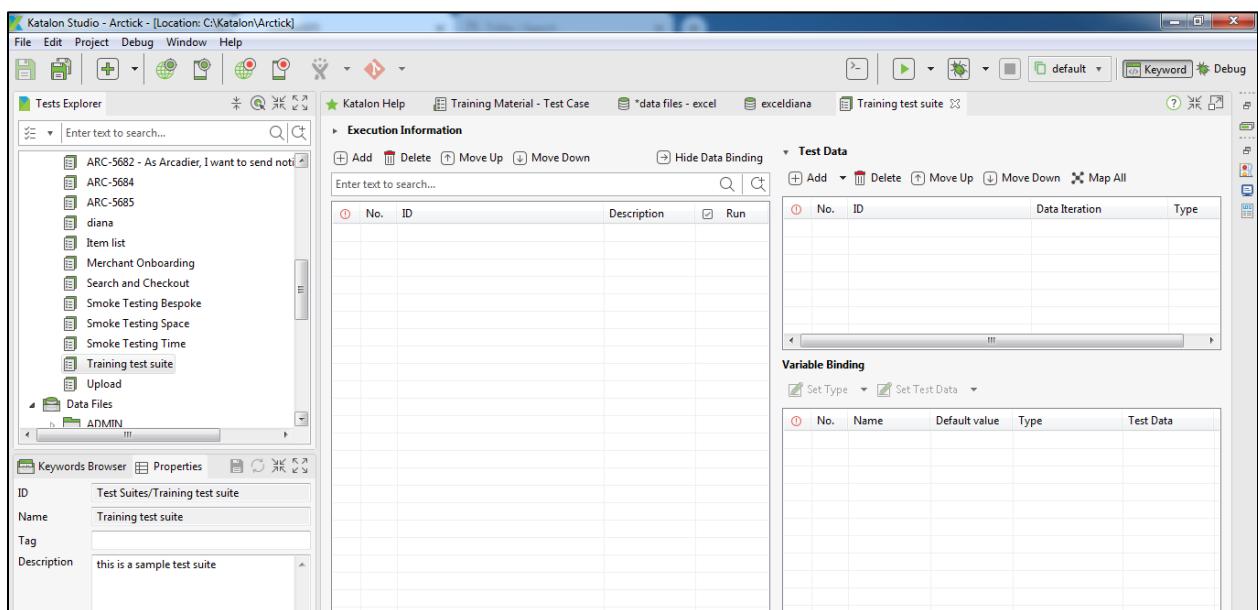
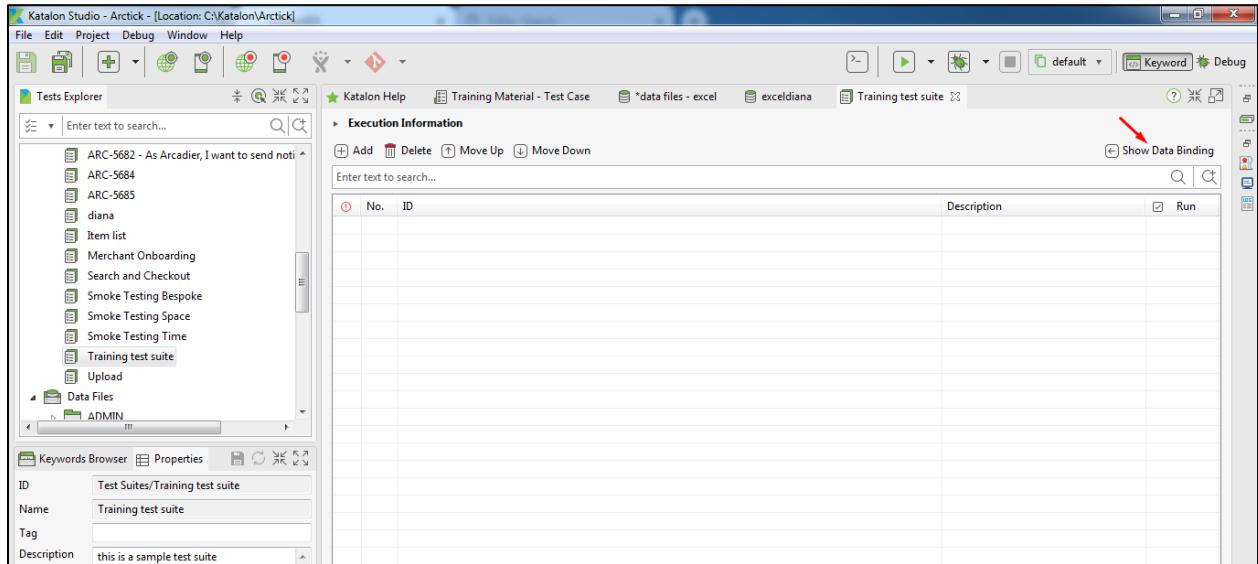


No.	Username	Password	Reconfirm Pass	Notification Email
1	dianacustom0	123456	123456	diana123@yopmail.com
2	dianacustom1	123456	123456	diana123@yopmail.com
3	dianacustom2	123456	123456	diana123@yopmail.com
4	dianacustom3	123456	123456	diana123@yopmail.com
5	dianacustom4	123456	123456	diana123@yopmail.com

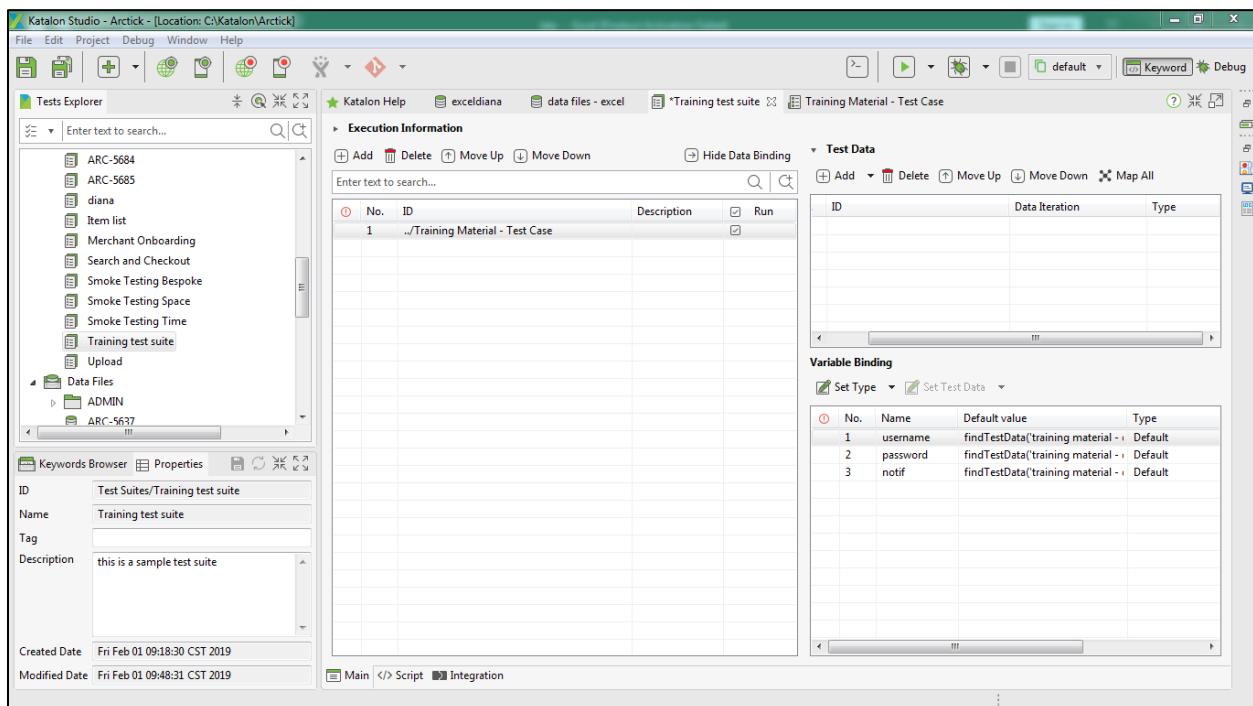
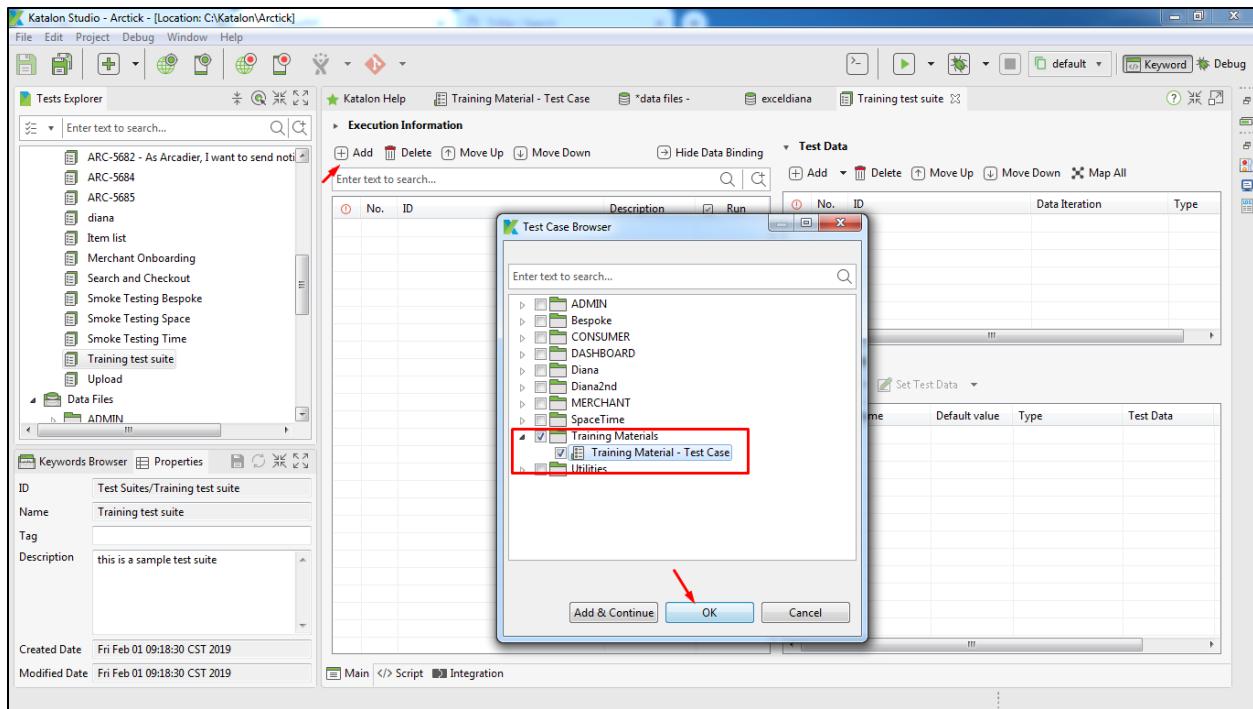
Upon successful adding of the file to the test data, the page should display the list of items that the uploaded file has.

How to bind Test Data

1. From Test Suite, Click Show Data Binding

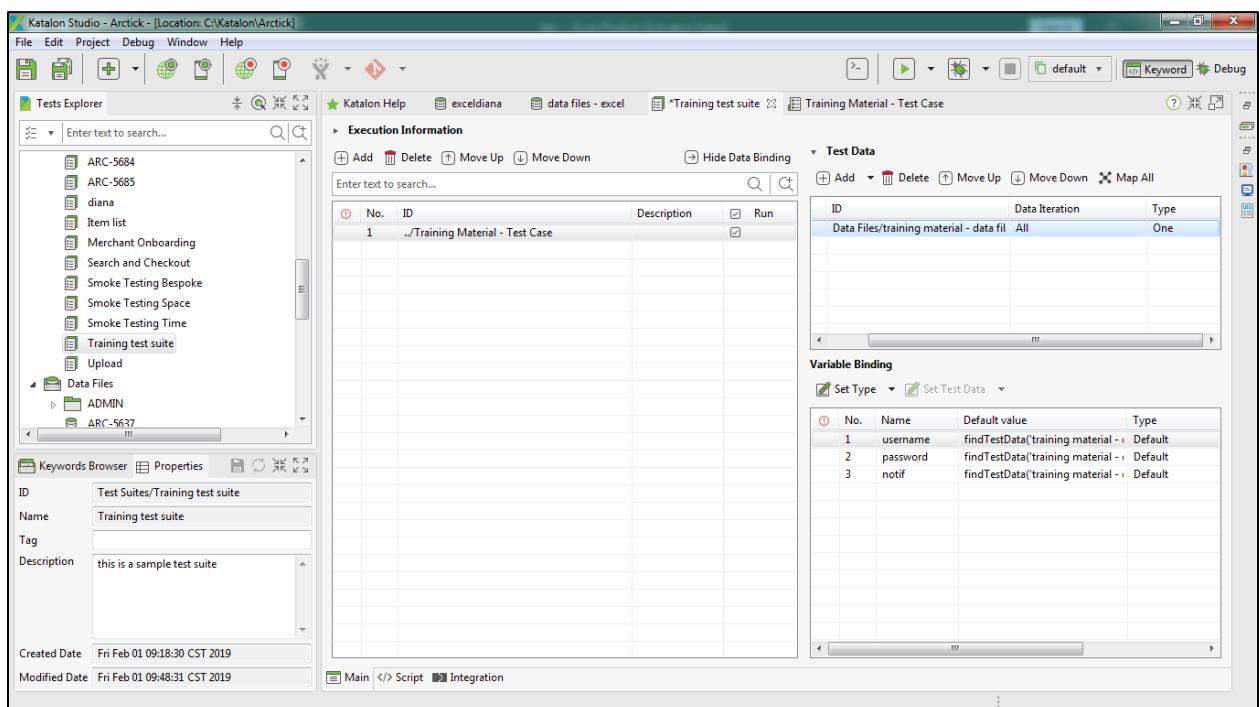
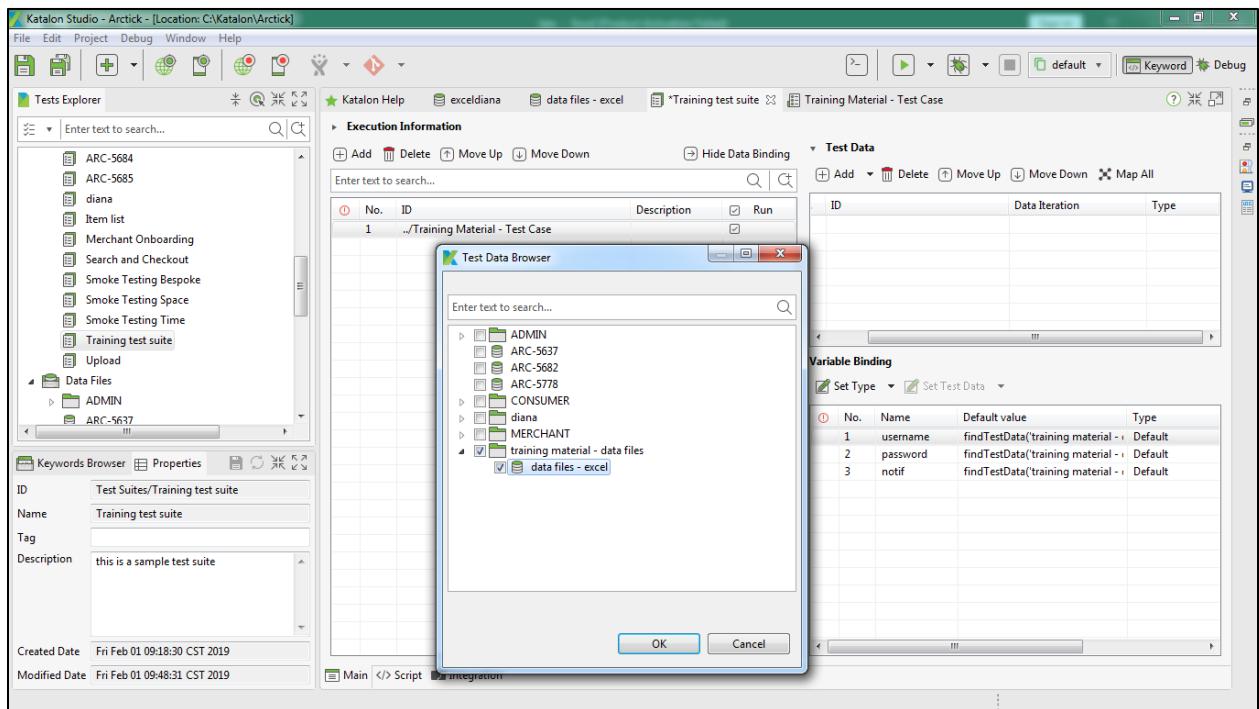


2. Add a Test Case, a Test Case Browser will appear, select the desired Test case to bind.



Upon selection of a test data, variable binding set in the Test Case should appear in the Variable Binding section

3. Add Test Data



How to use Data Driven in creating test cases

1. In adding the data driven test data, user should select the input as *Variable* and input the value of the data.

The screenshot shows the Katalon Studio interface with a test case script open. The script contains a series of actions, including opening a browser, navigating to a URL, and performing various clicks and waits. A specific action, "Set Text" for the input_username field, is highlighted with a blue selection bar. This action has its "Value" set to "username".

Item	Object	Input	Output	Description
1 - Open Browser		**		
2 - Maximize Window				
3 - Navigate To Url	ii_REGISTER SIGN IN	"0926bespoke2.test.arcadier.io/"		
4 - Wait For Element Visible	ii_REGISTER SIGN IN	0		
5 - Click	ii_REGISTER SIGN IN			
6 - Wait For Element Visible	input_create-account	0		
7 - Click	input_create-account			
8 - Wait For Element Visible	input_account-submit	0		
9 - Set Text	input_username	username		
10 - Set Text	input_password	password		
11 - Set Text	input_reconfirm-password	password		
12 - Set Text	input_notificationemail	notif		
13 - Click	input_account-submit			
14 - Close Browser				

The screenshot shows the Katalon Studio interface with a test case script and a data-driven table. The "Set Text" action for the input_username field is highlighted with a red selection bar. The "Value" field is set to "username". A modal dialog titled "Input" is open, showing a table with one row. The first column is "No.", the second is "Param Name", the third is "Param Type", the fourth is "Value Type", and the fifth is "Value". The row in the table has "1" in "No.", "text" in "Param Name", "String" in "Param Type", "Variable" in "Value Type", and "username" in "Value".

No.	Param Name	Param Type	Value Type	Value
1	text	String	Variable	username

The screenshot shows the Katalon Studio interface. On the left, the 'Tests Explorer' sidebar lists several test cases: ADMIN, Bespoke, CONSUMER, DASHBOARD, Diana, MERCHANT, SpaceTime, Training Materials (which contains 'Training Material - Test Case'), Utilities, and Object Repository. The main workspace displays a table titled 'Training Material - Test Case'. The table has columns for 'No.', 'Name', 'Default value type', and 'Default value'. There are three rows:

No.	Name	Default value type	Default value
1	username	Test Data	findTestData("training material - data files/data files - excel")
2	password	Test Data	findTestData("training material - data files/data files - excel")
3	notif	Test Data	findTestData("training material - data files/data files - excel")

Katalon Tips and Tricks

Web UI - Get Text

Get the visible (i.e. not hidden by CSS) inner text of the web element, including sub-elements, without any leading or trailing whitespace.

```
'Get text of Register link'  
result = WebUI.getText(findTestObject('POM'))
```

Web UI - Get Attribute

Get the attribute of a web element.

```
'Get \'class\' attribute value of make appointment button'  
attribute = WebUI.getAttribute(findTestObject('POM'), 'class')
```

Web UI – Scroll to Element

Scroll an element into the visible area of the browser window.

```
'Scroll to \'Book Appointment\' button'  
WebUI.scrollToElement(findTestObject('POM'), 3)
```

Web UI - Upload File

Upload file to an input with type = "file".

```
'Upload test-photo.png to input_browse'  
WebUI.uploadFile(findTestObject('POM'), 'image path')
```

Call Test Case

Call another test case and execute it separately.

```
'Use WebUI keyword'  
WebUI.callTestCase(findTestCase('DDR_NavigateToPageThenVerifyPageTitle'), ['p_Protocol' : null, 'p_DomainName' : null, 'p_Path' : null])
```

```
, 'p_WindowTitle' : null])
```

Delay

Delay the execution for the specified seconds.

```
'Use WebUI keyword'  
WebUI.delay(10)
```

Concatenate

Concatenate all strings end-to-end into one string.

```
'Use WebUI keyword'  
WebUI.concatenate(['Katalon', 'Automation Tool'] as String[],  
FailureHandling.STOP_ON_FAILURE)
```

