

KATALON
STUDIO TRAINING

Presented By: Testbits Sdn Bhd





Mini Assessment 1

Duration (30mins)

 Create and Automate Test Cases on CMS Katalon Shop based on the test cases given.

LEARNING OUTCOME

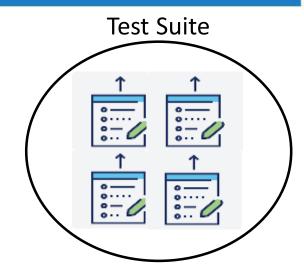
- Participants able to implement test cases creation based on situation given.
- Participants able to create TS / TSC and understand their features.
- Participants able to generate various type of reports.
- Participants able to setup email notifications for TS / TSC reporting.
- Participants able to create their own custom keywords to be used in their respective TCs.



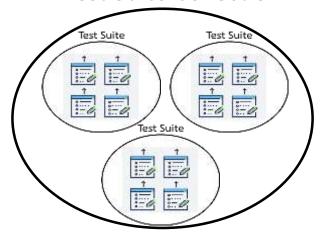
2.1 TEST SUITE & TEST SUITE COLLECTION

Test Suite - A collection of test cases or test scenarios that are designed to verify the functionality and quality of a software application. It includes a set of inputs, expected outputs, and the conditions under which the software should behave.

Test Suite Collection - A test suite collection is a group of related test suites that are designed to test an entire software application or a specific module or component of the application.



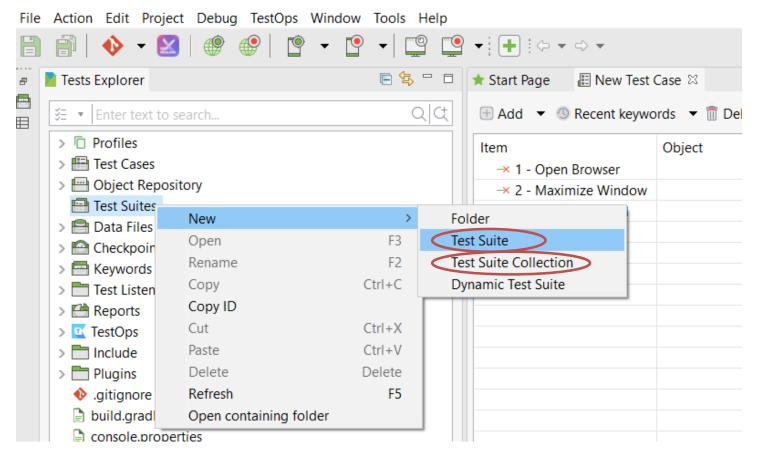
Test Suite Collection





2.1 TEST SUITE & TEST SUITE COLLECTION

Step 1: Create New Test Suite/ Test Suite Collection



- 1. Right Click Test Suite Folder
- 2. Select New
- 3. Click Test Suite or Test Suite Collection



2.1 TEST SUITE & TEST SUITE COLLECTION

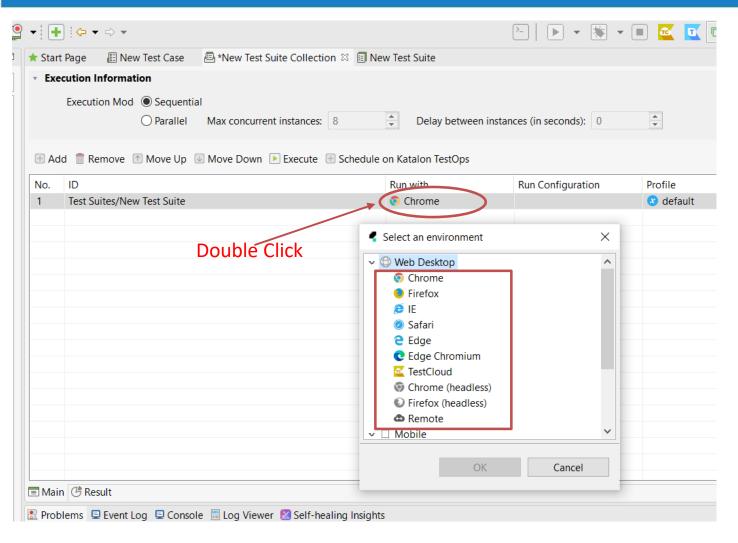
Step 2: Add Test Case into Test Suite

Step 3: Add Test Suite into Test Suite Collection

Step 4: Execute Test Suite and Test Suite Collection



2.1.1 Multiple Browser Support (For TSC)



Multi-Browser Support only available in Test Suite Collection

Step 1: Create New Test
Suite Collection

Step 2: Add Test Suite to Test Suite Collection

Step3: Select Browser

Step4:Execute Test Suite Collection

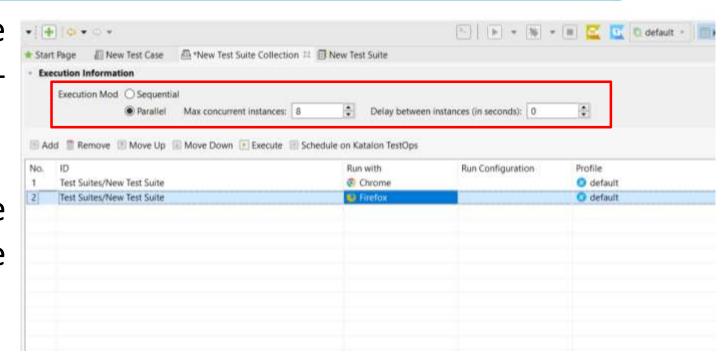


2.1.2 Sequential and Parallel (For TSC)

Sequential Execution Mod – The Test Suites will execute one-by-one according to its order.

Parallel Execution Mod – All the Test Suites will execute concurrent or simultaneously.

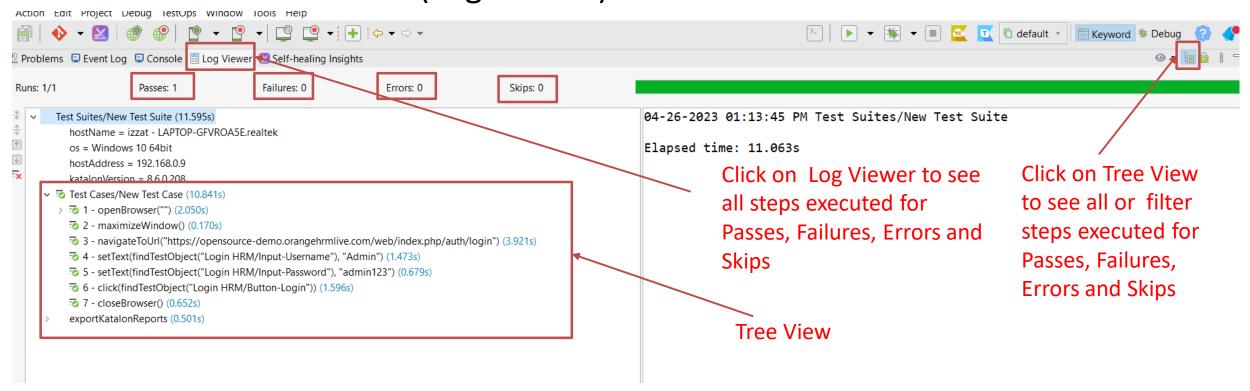
Ex. Both Test Suite will run for both Chrome and Firefox Browser at the same time in Parallel Mod





2.2 Logs & Reports

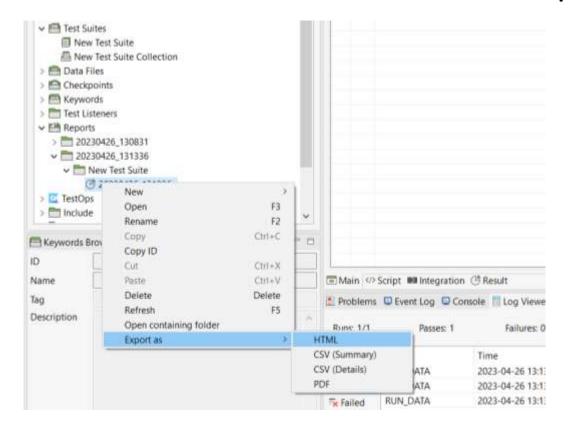
Upon executing Test Cases, Test Suite and Test Suite Collection regardless the results, Katalon Studio will generate Logs that can be viewed for test cases that Passed or Failed(Log Viewer).





2.2 Logs & Reports

Overall Reports only generated everytime Test Suite or Test Suite Collection is executed and can be exported as html, PDF and CSV Format.



Export/ View Report

Step 1: Open Reports Folder in the Test Explorer

Step 2: Right-Click on the Test Suite/Test Suite Collection Folder

Step3: Select Export as HTML, CSV or PDF



2.2 Logs & Reports

Host name: izzat - LAPTOP-GFVROA5E realtek

13:13:56.475 PASSED Browser is closed

Local OS: Windows 10 64bit

Katalon version: 8.6.0.208

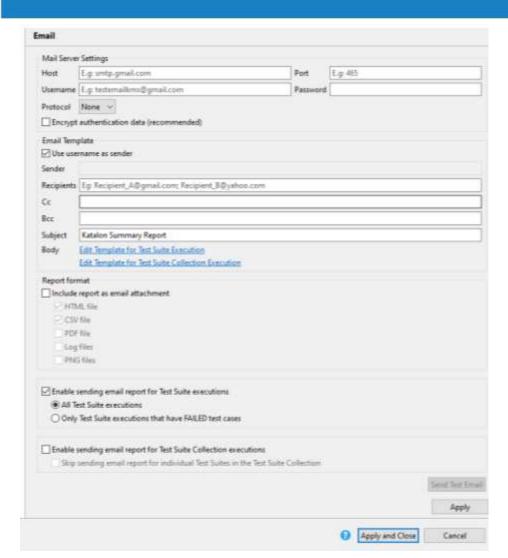
Browser: Chrome 112.0.0.0

Test Execution Log

TEST SUITE New Test Suite Full Name: New Test Suite Start / End / Elapsed: 2023-04-26 13:13:45:413 / 2023-04-26 13:13:56:476 / 00:00:11:063 Status: 1 test total, 1 passed, 0 failed, 0 error, 0 incomplete, 0 skipped FI TEST CASE Test Cases/New Test Case Full Name: New Test Suite/Test Cases/New Test Case 2023-04-26 13 13 45 635 / 2023-04-26 13 13 56 476 / 00:00 10 841 Start / End / Elapsed: PASSED Status: □ TEST STEP: open@rowser(**) Start / End / Elapsed: 2023-04-26 13 13 45 902 / 2023-04-26 13 13 47 982 / 00 00 02 050 INFO Starting 'Chrone' driver 13:111:46,164 13:13:46.203 INFO Action delay is set to 0 milliseconds 15:13:47.082 PASSED Browser is opened with url: " ☐ TEST STEP: maximizeWindow() Start / End / Elapsed: 2023-04-26 13.13.47.963 / 2023-04-26 13.13.48.153 / 00:00:00:170 13:13:48.153 PASSED Current window maximized TEST STEP: navigateToLit("https://opensource-demo-orangehrmlive.com/weip/index.php/auth/login") Start / End / Elapsed: 2023-04-26 13 13 48 154 / 2023-04-26 13 13 52 075 / 00:00:03 921 13:13:52.074 PASSED Navigate to 'https://opensource-demo.orangehrmllve.com/web/index.php/auth/login' successfully TEST STEP: setText(findTestObject("Login HRM/Input-Username"); "Admin") 2023-04-26 13 13:52 075 / 2023-04-26 13:13:53:548 / 00:00:01:473 13:13:53.548 PASSED Text 'Admin' is set on object 'Object Repository/Login MRM/Input-Username' ☐ TEST STEP: setText(TindTextObject/"Login HRM/Input-Password"), "admin123") Start / Eng / Elapsed: 2023-04-26 13:13:53:548 / 2023-04-26:13:13:54:227 / 00:00:00:679 13:13:54.226 PASSED Text 'admin123' is set on object 'Object Repository/Login HRM/Input-Password' ☐ TEST STEP: click(find TestObject("Login HRM/Button-Login")) Start / End / Elapsed: 2023-04-26 13 13:54 227 / 2023-04-26 13 13:55 823 / 00:00:01:596 13:13:55.822 PASSED Object: 'Object Repository/Login HRM/Button-Login' is clicked on ☐ TEST STEP: closedfrowser() Start / End / Elapsed: 2023-04-26 13:13:55.824 / 2023-04-26 13:13:56.476 / 00:00:00:662



2.3 Email Notifications

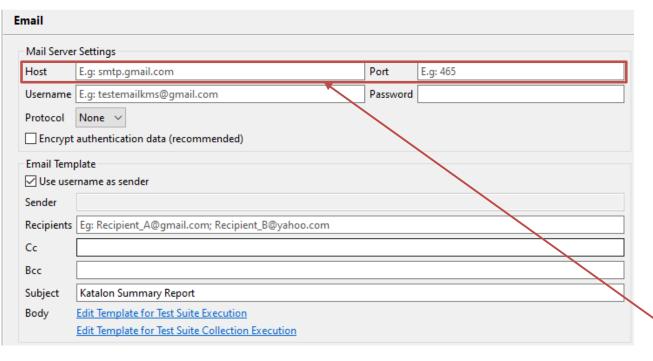


After a test suite or test suite collection execution, you might want to automatically send summary reports to your own email or other stakeholders to notify them about the test result. This document shows you how to set up your mail server and customize email reports to automatically send out a summary report email whenever a test execution finishes.

configure global email settings in **Project > Settings > Email**



2.3 Email Notifications



- •Username: Your full email account to authenticate with the server (e.g., yourusername@gmail.com)
- •Password: Your email password to authenticate with the server. This could be a password generated from App Passwords.

Email sever	Host	Port	Reference
Gmail	smtp.gmail.com	465 or 587	Check Gmail through other email platforms
Outlook	smtp.office365.com	587 or 25	How to set up a multifunction device or application to send email using Microsoft 365 or Office 365
Yahoo! Mail	smtp.mail.yahoo.com	465	POP access settings and instructions for Yahoo Mail

A custom keyword is a User define keyword that extends the capabilities of Katalon Studio in addition to built-in Keywords.

How to Create Custom Keywords:

Step 1: Create New Package

- -Right Click at the "Keywords" Folder and select "New" and Choose "Package"
- -Give a name to your package. (Make sure the Package name starts in lowercase Ex. "myCustomKeywords")

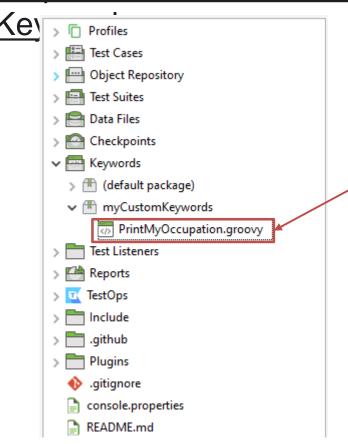
Step 2: Create New Keyword

- -Right Click on the newly create Package folder and select "New" and Choose "Keyword"
- -Give a name to your Keyword and it will create a new .groovy script.

(Ex. PrintMyOccupation)



Step 2: Create New



```
★ Welcome

☑ PrintMyOccupation.groovy 
☒
1 package myCustomKeywords
 3@ import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint
 4 import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase
 5 import static com.kms.katalon.core.testdata.TestDataFactory.findTestData
  6 import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject
 7 import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject
 9 import com.kms.katalon.core.annotation.Keyword
 10 import com.kms.katalon.core.checkpoint.Checkpoint
 11 import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW
 12 import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile
 13 import com.kms.katalon.core.model.FailureHandling
 14 import com.kms.katalon.core.testcase.TestCase
 15 import com.kms.katalon.core.testdata.TestData
 16 import com.kms.katalon.core.testobject.TestObject
 17 import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS
 18 import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI
    import com.kms.katalon.core.windows.keyword.WindowsBuiltinKeywords as Windows
 20
    import internal.GlobalVariable
    public class PrintMyOccupation {
```

It should look like this with the Package folder and custom keyword created



Step 3: Create New Function

```
import com.kms.katalon.core.testcase.TestCase
   import com.kms.katalon.core.testdata.TestData
   import com.kms.katalon.core.testobject.TestObject
   import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS
   import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI
   import com.kms.katalon.core.windows.keyword.WindowsBuiltinKeywords as Windows
20
   import internal.GlobalVariable
22
   public class PrintMyOccupation {
24
       @Keyword (keywordObject = "<category name>")
       def keywordName(parameters...) {
       // enter your code here
       // you can use either Groovy or Java
```

Item	Description	Required
@Keyword	The annotation to indicate that the block of code below is the definition of a keyword.	Yes
keywordObject	The category of your custom keyword (available from version 7.5.5).	No
keywordName	The name for your custom keyword.	Yes
parameters	The list of parameters to be used in the custom keyword.	No

Step 3: Create New

```
import com.kms.katalon.core.annotation.Keyword
10 import com.kms.katalon.core.checkpoint.Checkpoint
  11 import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW
  12 import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile
  13 import com.kms.katalon.core.model.FailureHandling
  14 import com.kms.katalon.core.testcase.TestCase
  15 import com.kms.katalon.core.testdata.TestData
  16 import com.kms.katalon.core.testobject.TestObject
  17 import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS
  18 import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI
  19 import com.kms.katalon.core.windows.keyword.WindowsBuiltinKeywords as Windows
  20
  21 import internal.GlobalVariable
  22
     public class PrintMyOccupation
  23
  24
  25⊝
         @Keyword (keywordObject = "PrintFunction")
         def SelectOccupation (int input) {
  26
  27
  28
             switch (input) {
  29
  30
                 case 1:
  31
                 println("Automation Tester");
  32
                 break;
  33
                                                                      Example to print
  34
                 case 2:
                 println("Manual Tester");
  35
                                                                      Occupation
  36
                 break;
  37
  38
                 case 3:
  39
                 println("Automation and Manual Tester");
  40
                 break;
  41
  42
  43
```

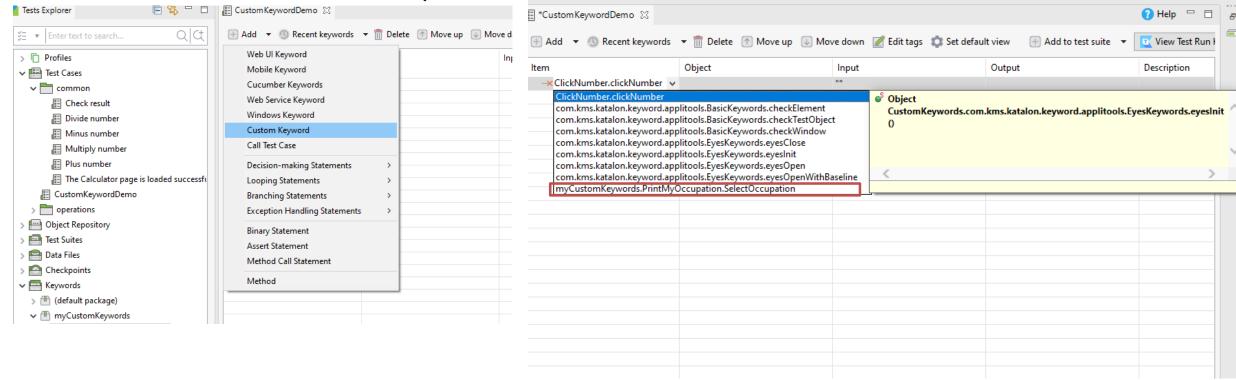
```
public class PrintMyOccupation {
        @Keyword (keywordObject = "PrintFunction")
25⊜
        def SelectOccupation (int input) {
27
            switch (input) {
28
29
30
                case 1:
                println("Automation Tester");
32
                break;
33
34
                case 2:
                println("Manual Tester");
35
36
                break;
38
                case 3:
39
                println("Automation and Manual Tester");
                break;
40
41
42
44
```



Step 4: Add Custom Keyword to Test Case

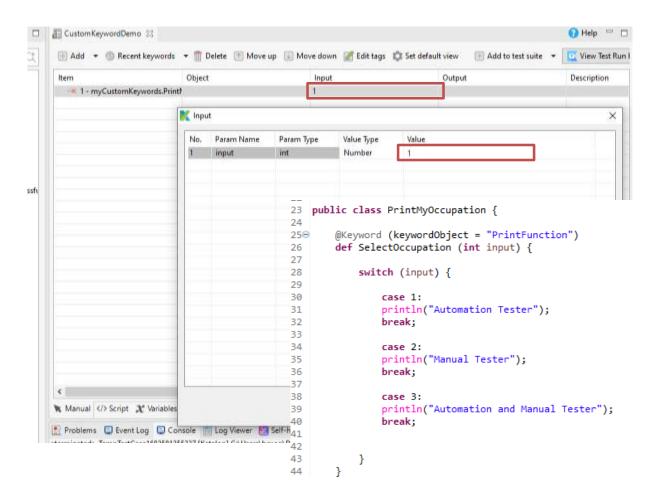
-Create a new test case named "CustomKeywordDemo" and "add" Custom Keyword and

choose the function "SelectOccupation"





Step 5: Execute the Test Case



Change the Input to 1,2 or 3 and execute the test case while observing the result on the console.

```
Input 1 = Automation Tester
Input 2 = Manual Tester
Input 3 = Automation and Manual
Tester
```

Q&A



THE END



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