



December 10, 2015

Cucumber

By Lakshay Sharma

Cucumber

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In the last chapter of [Parameterization in Cucumber](#), we learned how to *parameterize* data. But with that trick only limited functionality can be achieved of Data Driven. As the test can be run multiple times. But by now that you know the anatomy of a *Data-Driven test*, here's a trick that simplifies the process of **Data Driven testing using Cucumber**. *Cucumber* inherently supports *Data Driven testing* by the use of the **Scenario Outline** and **Examples** section. It is with these keywords that *Cucumber* allows for easy *Data Driven testing* to be completed where no changes need to be made to the Java file. In this tutorial we learn, How to **Implement**



- **Scenario Outline** – This is used to run the same scenario for 2 or more different set of test data. E.g. In our scenario, if you want to register another user you can data drive the same scenario twice.
- **Examples** – All scenario outlines have to be followed with the Examples section. This contains the data that has to be passed on to the scenario.

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## Data Driven Testing Using Examples Keyword

If you understood the concept of [Parameterization in Cucumber](#), you would find this one very easy. In this tutorial as well I am taking the same *LogIn* test scenario.

1) Enter the **Example Data** just below the *LogIn* Scenario of the *Feature* File.

### Examples:

	<b>username</b>		<b>password</b>	
	<b>testuser_1</b>		<b>Test@153</b>	
	<b>testuser_2</b>		<b>Test@153</b>	

**Note:** The table must have a header row corresponding to the variables in the Scenario Outline steps.

The Examples section is a table where each argument variable represents a column in the table, separated by "|". Each line below the header represents an individual run of the test case with the respective data. As a result if there are 3 lines below the header in the Examples table, the script will run 3 times with its respective data.

2) Need to update the Statement in the *feature* file, which tells *Cucumber* to enter *username* & *Password*.





```

2
3 Scenario Outline: Successful Login with Valid Credentials
4   Given User is on Home Page
5   When User Navigate to LogIn Page
6   And User enters "<username>" and "<password>"
7   Then Message displayed Login Successfully
8 Examples:
9   | username | password |
10  | testuser_1 | Test@153 |
11  | testuser_2 | Test@153 |

```

3) There are no changes in **TestRunner** class.

```

1 package cucumberTest;
2
3 import org.junit.runner.RunWith;
4 import cucumber.api.CucumberOptions;
5 import cucumber.api.junit.Cucumber;
6
7 @RunWith(Cucumber.class)
8 @CucumberOptions(
9     features = "Feature"
10    ,glue={"stepDefinition"}
11    )
12
13 public class TestRunner {
14
15 }

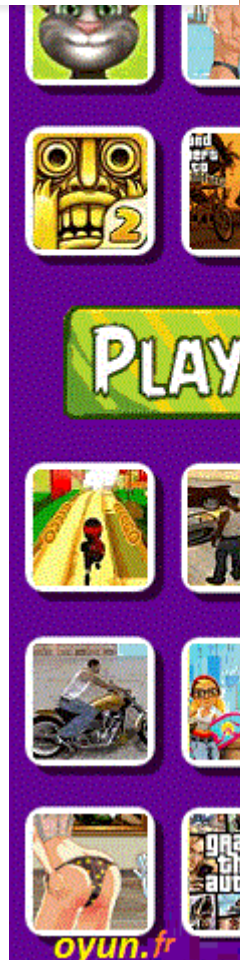
```

4) There are no changes in **Test\_Steps** file from the previous chapter.

```

1 package stepDefinition;
2
3 import java.util.concurrent.TimeUnit;
4
5 import org.openqa.selenium.By;
6 import org.openqa.selenium.WebDriver;
7 import org.openqa.selenium.firefox.FirefoxDriver;
8
9 import cucumber.api.java.en.Given;
10 import cucumber.api.java.en.Then;
11 import cucumber.api.java.en.When;
12
13 public class Test_Steps {
14     public static WebDriver driver;
15     @Given("^User is on Home Page$")
16     public void user_is_on_Home_Page() throws Throwable {
17         driver = new FirefoxDriver();

```





```

26
27     @When("^User enters \"(.*)\" and \"(.*)\"$")
28     public void user_enters_UserName_and_Password(String username
29         driver.findElement(By.id("log")).sendKeys(username);
30         driver.findElement(By.id("pwd")).sendKeys(password);
31         //driver.findElement(By.id("login")).click();
32     }
33
34     @Then("^Message displayed Login Successfully$")
35     public void message_displayed_Login_Successfully() throws T
36         System.out.println("Login Successfully");
37     }
38
39     @When("^User LogOut from the Application$")
40     public void user_LogOut_from_the_Application() throws Throw
41         driver.findElement (By.xpath(".*[@id='account_logout'
42     }
43
44     @Then("^Message displayed LogOut Successfully$")
45     public void message_displayed_LogOut_Successfully() throws
46         System.out.println("LogOut Successfully");
47     }
48
49 }

```



5) Run the test by *Right Click* on **TestRunner class** and Click **Run As > JUnit Test** Application.

This takes the *parameterization* one step further: now our scenario has "**variables**" and they get filled in by the values in each row. To be clear: by defining this, the scenario will run two times, passing in one row at a time. This makes it very easy to define a lot of examples, edge cases and special outcomes. Instead of hardcoding the test data, variables are defined in the Examples section and used in *Scenario Outline* section.

**Note:** Please create your own username & password for the test, if you supply wrong **UserName & Password 3 times**, your IP will get blocked.



◀ Cucumber

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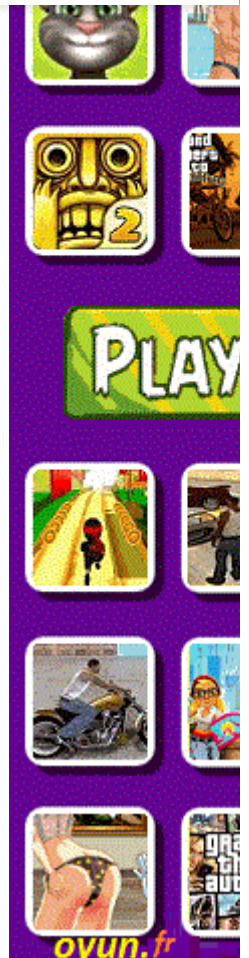
About the author



Lakshay Sharma

I'M LAKSHAY SHARMA AND I'M A TEST AUTOMATION ENGINEER. Have passed 11 years playing with automation in mammoth projects like O2 (UK), Sprint (US), TD Bank (CA), Canadian Tire (CA), NHS (UK) & ASOS(UK). Currently I am working with [BLOOMREACH](#) as SDET. I am passionate about designing Automation Frameworks that are effective and easy to maintain. For automating websites my weapons are QTP and Selenium (WebDriver JAVA & C#). I live in Amsterdam(NL), with my wife and a lovely daughter. Please connect with me at [LinkedIn](#) or follow me on [Instagram](#).

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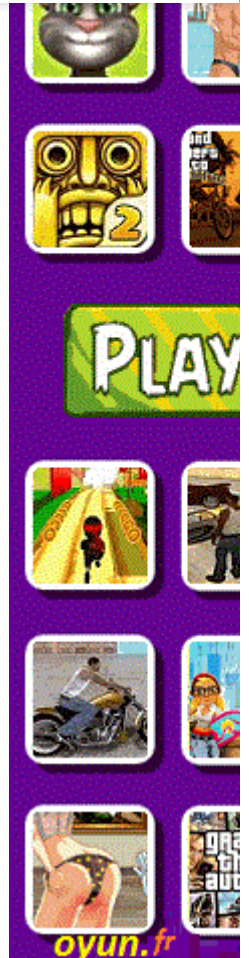
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