Run Data-Enabled TestNG Scenarios

Below article explains about Data Enabling using TestNG Data Provider.
It covers below mentioned topics:

- How to Create a TestNG Class in Eclipse?
  * How use TestNG class jar file to run Functional scenario in Appvance?
- Run Load test using TestNG class(with DataProvider) in Appvance.
  How to Create a TestNG Class in Eclipse?
  Pre-requisite: *Download jxl-2.6.jar file (

  http://www.java2s.com/Code/Jar/j/Downloadjxljar.htm)

  *To install TestNG in Eclipse: http://toolsqa.com/selenium-webdriver/install-testng/
- Create a new package in Eclipse
- Right Click package Name
- Select Build Path Configure Build path -Select Libraries tab
- Click Add External Jars -Browse and add downloaded jxl-2.6.jar file.
- Create a TestNG class with TestNG annotations (DataProvider to read data from Xls file)

[@DataProvider: Marks a method as supplying data for a test method. The annotated method must return an Object[ ][ ], where each Object[ ] can be assigned the parameter list of the test method.The @Test method that wants to receive data from this DataProvider needs to use a dataProvider name equals to the name of this annotation.]

Sample code to read data from Xls file:

```
packageTestNG;
importjava.io.FileInputStream;
importjava.io.FileNotFoundException;
importjava.io.IOException;
importjava.util.Random;
importjxl.Sheet;
importjxl.Workbook;
importjxl.read.biff.BiffException;
public class RandamData {
public static void main(String args[])
{
getExcelData("F:Spree.xls","Sheet1");
}
public String[][] getExcelData(String fileName, String sheetName) {
String[][] arrayExcelData = null;
```

```
try {
FileInputStreamfs = newFileInputStream(fileName);
Workbook wb = Workbook.getWorkbook(fs);
Sheet sh = wb.getSheet(sheetName);
inttotalNoOfCols = sh.getColumns();
inttotalNoOfRows = sh.getRows();
arrayExcelData = new String[totalNoOfRows][totalNoOfCols];
for (inti= 0 ; i<totalNoOfRows; i++) {
for (intj=0; j<totalNoOfCols; j++) {
arrayExcelData[i][j] = sh.getCell(j,i).getContents();
} }
} catch (FileNotFoundExceptione) {
e.printStackTrace();
} catch (IOExceptione) {
e.printStackTrace();
} catch (BiffExceptione) {
e.printStackTrace();
} return arrayExcelData;
}
```

To use in TestNG:

```
@DataProvider(name="Login")
public Object[][] loginData() {
Object[][] arrayObject=getExcelData("F:Sample.xls","Sheetname");
return arrayObject;
}
```

Note: For example refer attached Java file(ExcelData.java) with TestNGclass and annotations that uses Xls data to login .

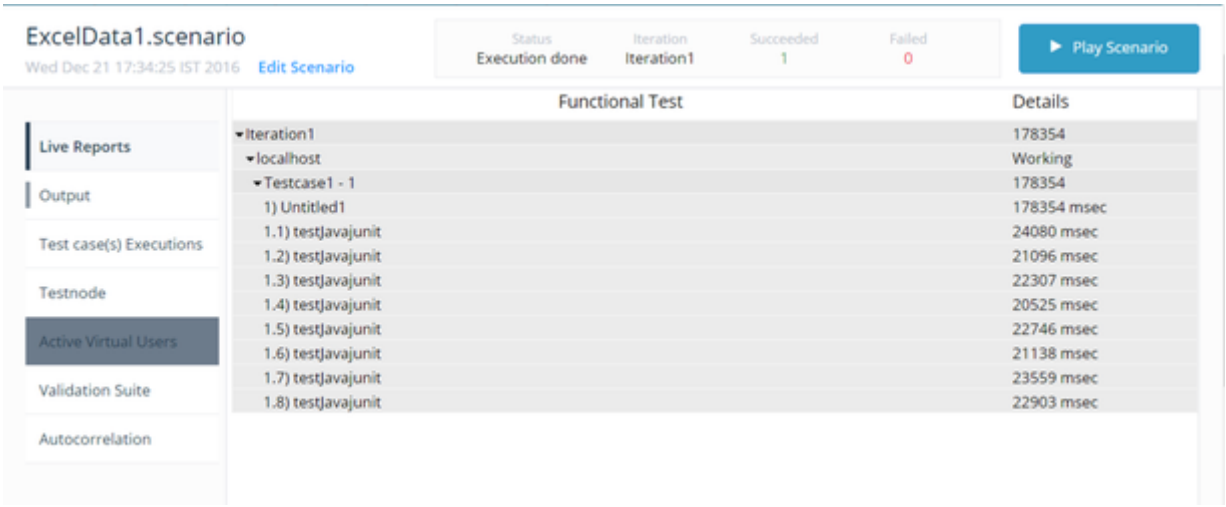
-Now create a Jar file for above TestNG class file to run script in Appvance.

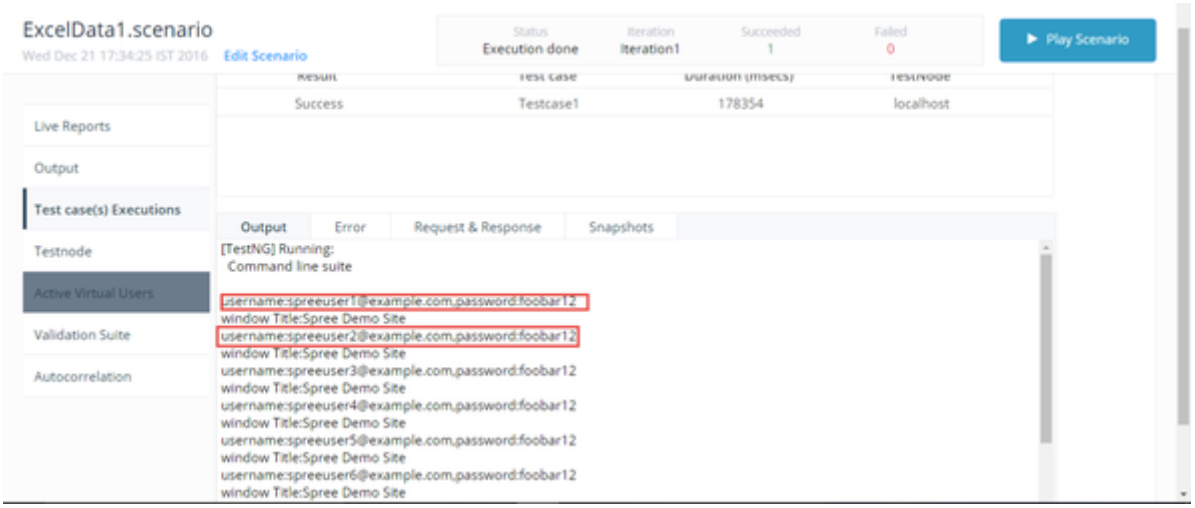
How useTestNG class jar file to run Functional scenario in Appvance:

-Open a Appvance and click Scenario builder from start screen.
-Select a Functional Test Test Type in scenario builder.
-Create a Scenario for TestNG by selecting TestNG test type under Test case panel.
-Browse and add Jar file that contains TestNG code
-Enter the TestNG class name as "packagename.classname".
-Navigate to resources panel, click Add resources.
-Select resource Type as Jar and add jxl-2.6.jar file.
-Save the Scenario and click Play button.

Note: Refer attached ExcelData.jar and Exceldata1.scenario file

Output:





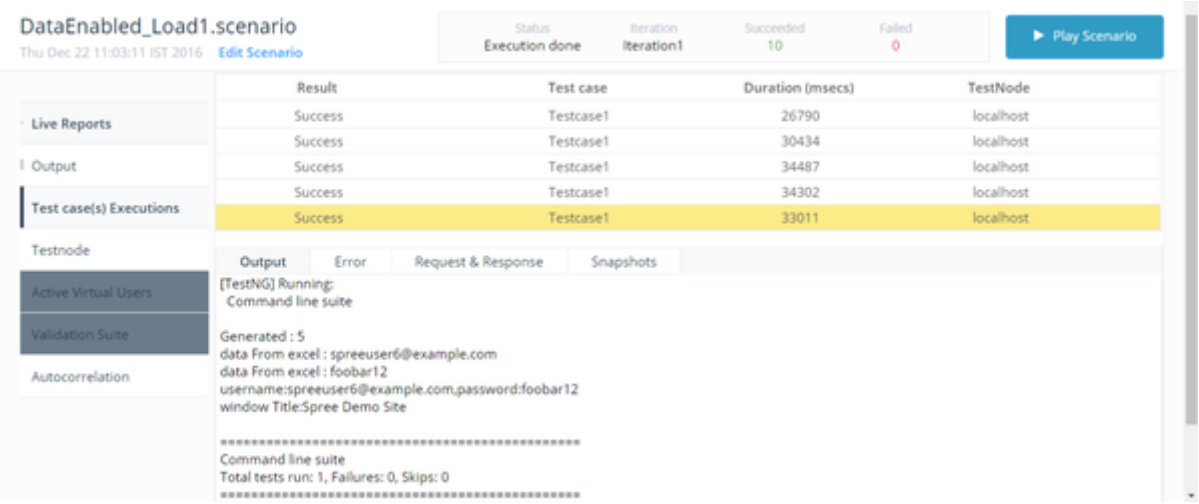
To run a Load test using TestNG :

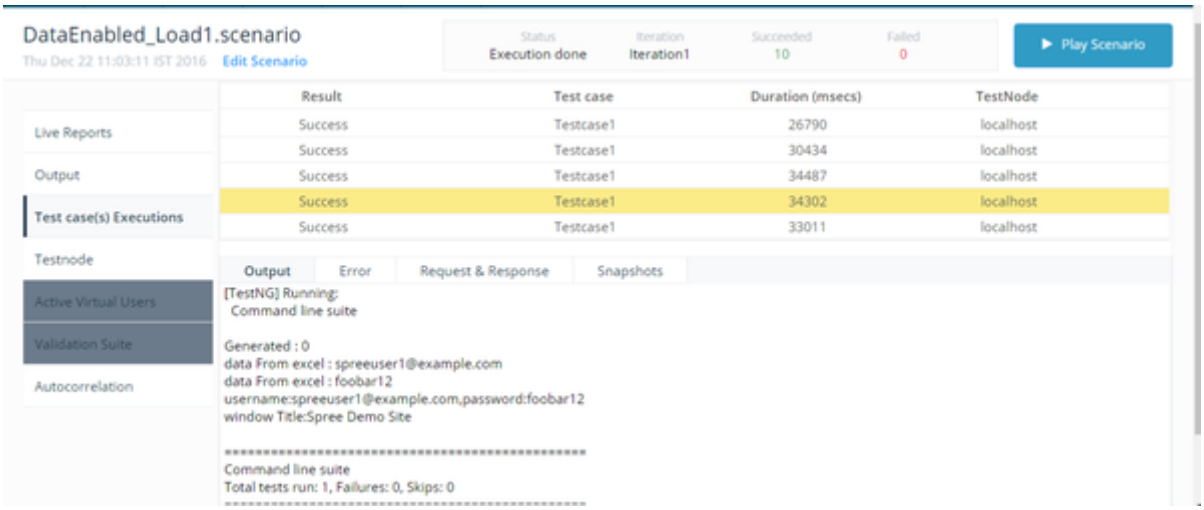
-Use a random number in a TestNG script to read a data from Excel.
Sample code:

```
@DataProvider(name="Login")
public Object[][] loginData() {
Object[][] arrayObject=null;
for(int i=0;i<1;){
for(int j=0;j<1;j++){
arrayObject = getExcelData("F:\\Spree.xls","sheetname");
}
break;
}
return arrayObject;
}
public static String[][] getExcelData(String fileName, String sheetName) {
String[][] arrayExcelData = null;
try {
FileInputStream fs = new FileInputStream(fileName);
Workbook wb = Workbook.getWorkbook(fs);
Sheet sh = wb.getSheet(sheetName);
int totalNoOfRows = sh.getRows();
```

```
□□int totalNoOfCols = sh.getColumns();
□□//System.out.println("No. of rows: " + totalNoOfRows);
□□//System.out.println("No. of columns: " + totalNoOfCols);
□□//To generate Random Number
□□arrayExcelData = new String[totalNoOfRows][totalNoOfCols];
□□Random randomGenerator = new Random();
□□int randomInt = randomGenerator.nextInt(totalNoOfRows);
□□System.out.println("Generated : " + randomInt);
□□arrayExcelData = new String[1][totalNoOfCols];
□□for(int i=0;i<totalNoOfRows;){
□□□for(int j=0;j<totalNoOfCols;j++){
□□    arrayExcelData[i][j]=sh.getCell(j,randomInt ).getContents();
□        System.out.println("data From excel : " + arrayExcelData[i][j]);
□□□}
□□□break;
□□}
□} catch (FileNotFoundException e) {
□□e.printStackTrace();
□} catch (IOException e) {
□□e.printStackTrace();
□□e.printStackTrace();
□} catch (BiffException e) {
□□e.printStackTrace();
□}
□return arrayExcelData;
}
}
```

Note: For example refer attached Random.jar file and DataEnabled_Load1.scenario file.





For Example, refer the attached TestNG.Zip file that contains:
1) Java file(TestNG class)
2) Jar files(Used to create scenario in Appvance).
3) Scenario files.

TestNG.zip

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If you have any feedback on this topic, please contact us at documentation@appvance.ai

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