



Open2Test Test Automation Framework for Selenium Web Driver - Quick Start Guide

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1 PURPOSE

This document explains the support settings and how to get started with keyword-driven scripting for Web apps using Open2Test framework for Selenium.

2 Environment Setup

1. Windows OS
2. IE/Firefox Browser
3. IEDriver Exe (If IE is used)
<http://docs.seleniumhq.org/download/>)
4. A Java IDE with Java 1.7 JDK and JRE required
5. The following Jar files are required to run the Open2Test Framework for Selenium WebDriver Framework
 - jexcelapi_2_6_12 or higher
[\(http://www.java2s.com/Code/Jar/j/Downloadjxljar.htm\)](http://www.java2s.com/Code/Jar/j/Downloadjxljar.htm)
 - junit-4.9 or higher
 - Selenium-server-standalone-2.43.0 Or Selenium client Libraries (<http://docs.seleniumhq.org/download/>)

3 Framework at Glance

Input Files:

a. Selenium Utility Excel:

The TestSuite, TestScript, Object Repository and Report Folder location should be mentioned in Selenium_UTILITY excel.

File\Folder Name	Location
Test Suite	D:/path/Test_Suite1.xls
Test Script	D:/path/
Object Repository	D:/path/TestData/ObjectRepository.xls
Environment File	
Summary Report	D:/path/Test Reports/
Screen Shot Report	D:/path/Test
Browser Type	D:/path/Test Reports/Detailed_Report/
ieDriverPath	D:/IEDriverServer/IEDriver.Exe
TempTestReportPath	C:/
FileManager EXE	D:/path/FileManager.EXE

Note: The selenium utility excel file should be placed in the path defined in Setting.Java class file. If you wish to place the utility file in some other location, you must update the path in the Setting.Java class file.

If your test case needs file upload or file download operation, you must download(You will be able to download the exe from the link which you receive for downloading the framework) and place the FileManager.exe in the required path and should specify the path in the SeleniumUtility.Xls file.

There are no additional environment prerequisites for executing the EXE.

b. Object Repository Excel:

	Object Name	Object Type	Pare	ObjectPath
1	Welcome to Open2Test.org	Page	0	name=
2	Name	Textbox	1	id=name
3	emailID	Textbox	1	id=emailID
4	selectframewo	ComboBox	1	xpath=//select
5	Agreement	Textbox	1	id=Agreement
6	Input	Textbox	1	id=submit

Collect the properties of objects and define it in Object_Repository.xls like below

c. Test suite Excel:

Mention the test scripts in the 'Test suite' excel in the order you wish to execute them.

Run	Test Scripts
r	Test_Create Project.xls
r	Test_Report Issue.xls

d. Test Script Excel

Write the keywords for the test script like below.

Note: Open2Test Framework Keywords & actions are not case sensitive.

Run	Keyword	ObjectDetails	Action
r	LaunchApp	www.open2test.org	
r	Importdata	D:\001 D Files\path\TestData\TestData.xls	Sheet1
r	Loop		3
r	Perform	Textbox;name	set:dt username
r	Perform	Textbox;emailID	set:dt email
r	Check	Textbox;emailID	enabled:true
r	Perform	ComboBox;selectframework	select:Web
r	Perform	Textbox;Agreement	click
r	Perform	Button;input	click
r	Screenshot		
r	Endloop		

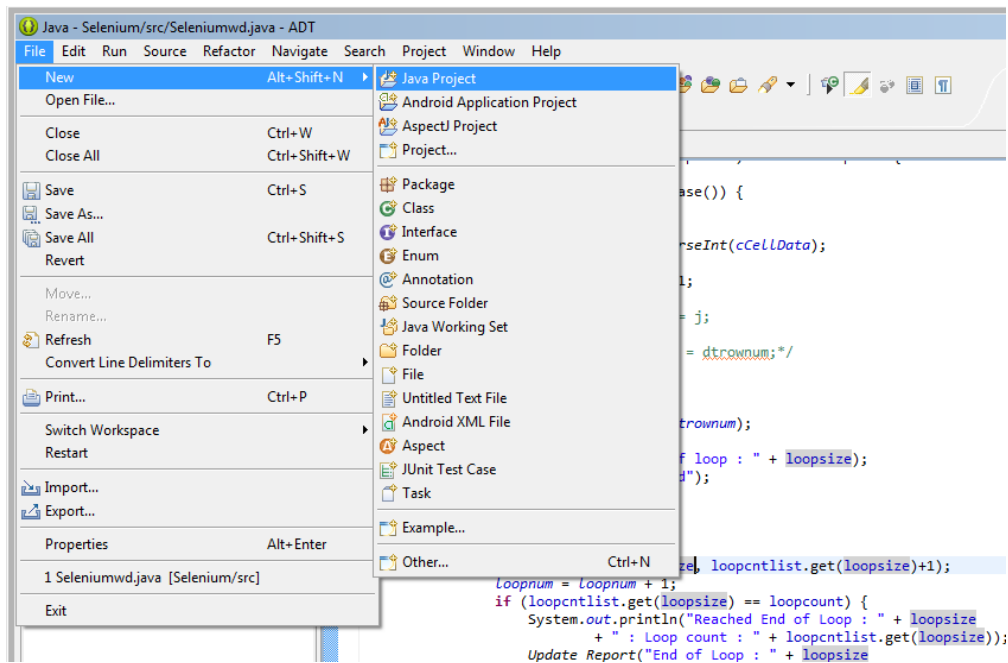
e. Test Data

Keep all your Test data in TestData.xls

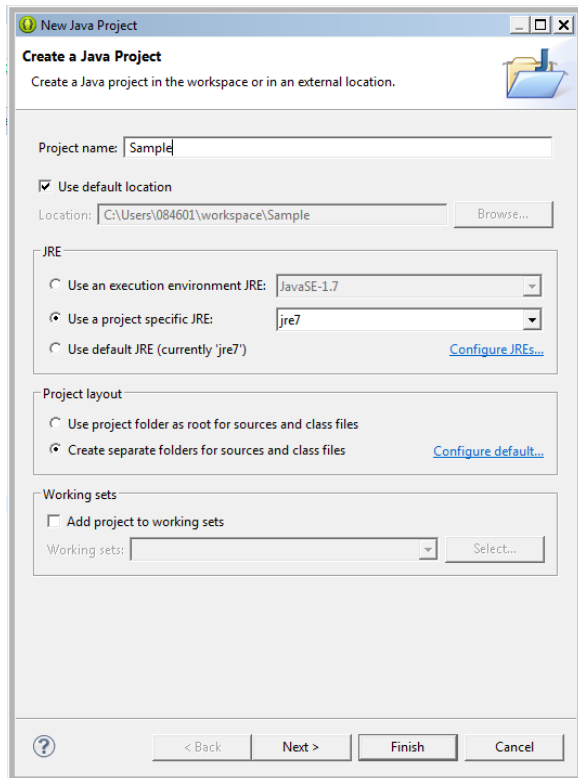
username	email
User1	User1@gmail.com
User2	User2@gmail.com
User3	User3@gmail.com

3. Project Setup in Eclipse

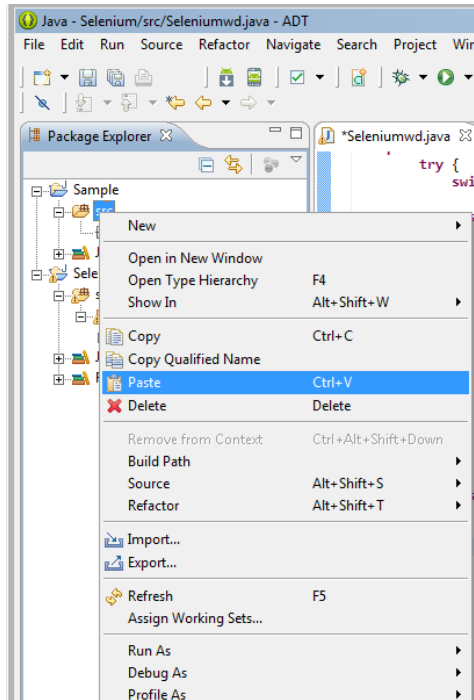
1. Launch Eclipse.
2. Click **File -> New -> Java Project**.



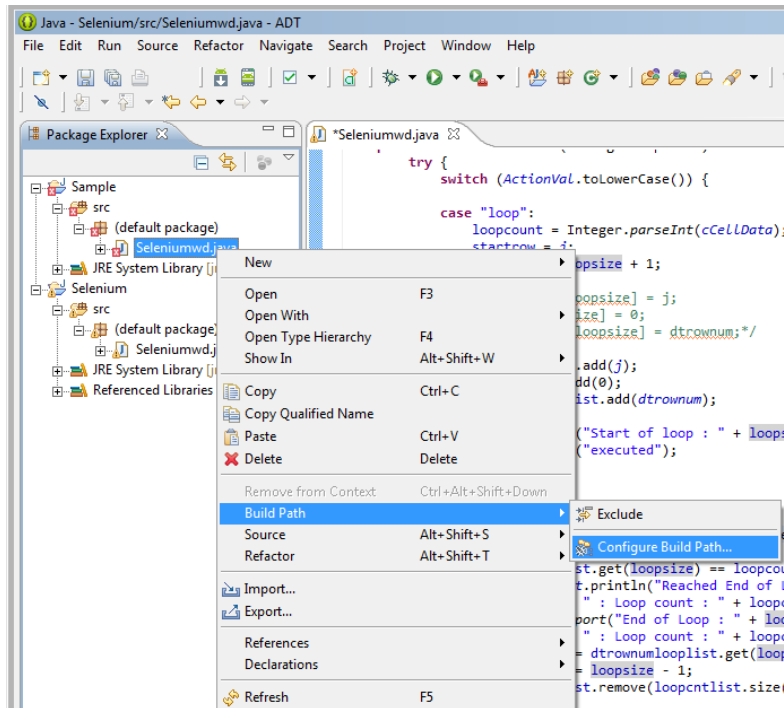
3. Enter **project name** and click '**Finish**'. Note that J2SE 1.7 is used



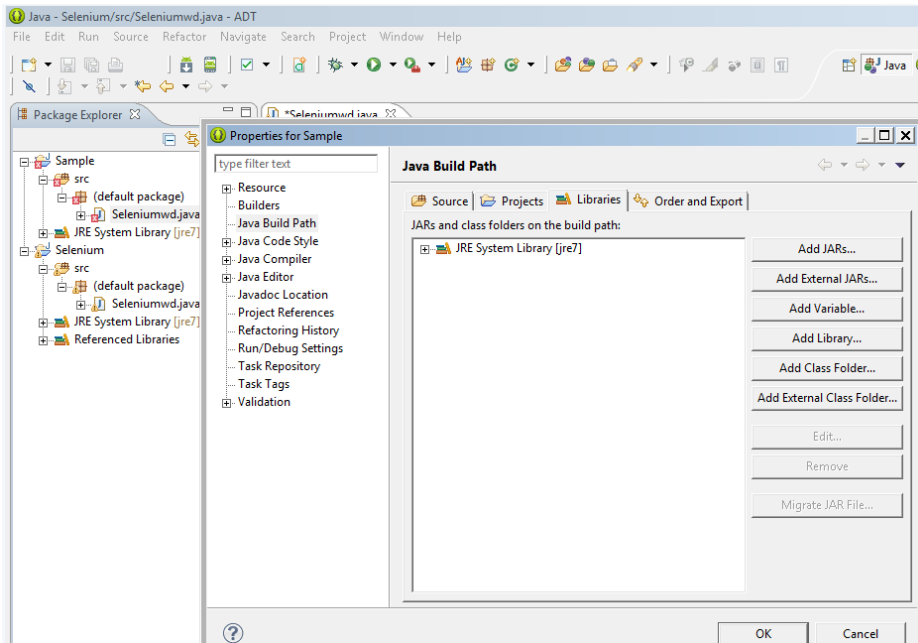
4. Copy the Framework code that is downloaded from www.open2test.org
5. Right-click on 'src' under the new project created and click 'Paste'.

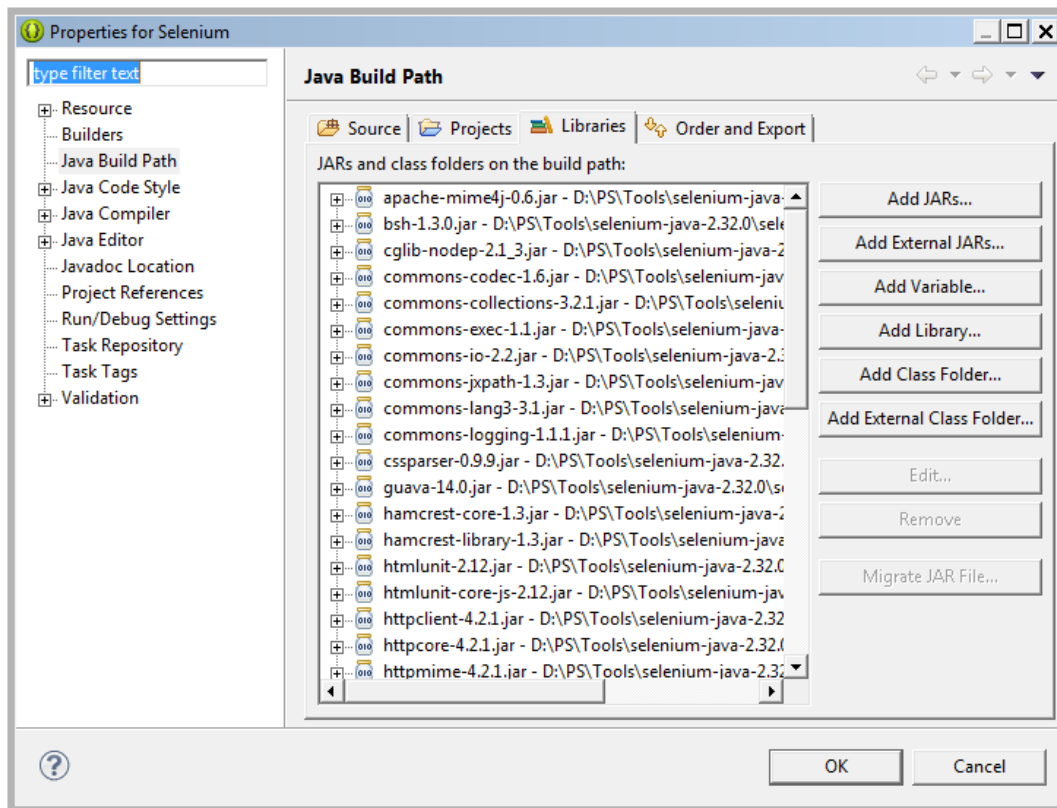


6. Right-click on the framework code which is pasted under src folder, select Build path -> Configure Build Path.



7. Click on Libraries. Click on 'Add External JARs' and add all the jar files under the selenium folder (selenium-java-2.43.0) as per the version you use. Also add JXL.jar file as well.





In the same package add a new class with name Setting.java as follows:

```
public class Setting
{
    public String
utilityFilePath="D:\\Phase6\\Open2Test\\Selenium_UTILITY1.xls";
    String[] envprevMonth1={"Prev", "prev"};
    // Specify a class name through which the framework can identify the image
representing the previous month
    String[] envnextMonth1={"Next", "next"};
    // Specify a class name through which the framework can identify the image
representing the next month
    String[] envtitleMonth={"month"};
    // Specify a class name through which we can identify the title month element
in calendar control element
    String[] envtitleYear={"year"};
    // Specify a class name through which we can identify the title month element
in calendar control element
}
```

Important Note for the Users automating Date Picker control (If you want to directly pick a date from the calendar control):

Two kinds of date picker controls are supported:

1. JQuery

DatesInOthermonth=true/false, DisplayMonthandYear Menus, Display multiple months, icontrigger, restricted Date range are supported. Inline type is **not** supported currently.

2. Bootstrap (**Except** Inline type)

For String array `envprevMonth1`, specify a class name through which the framework can identify the image representing the previous month

For String array `envnextMonth1` Specify a class name through which the framework can identify the image representing the next month

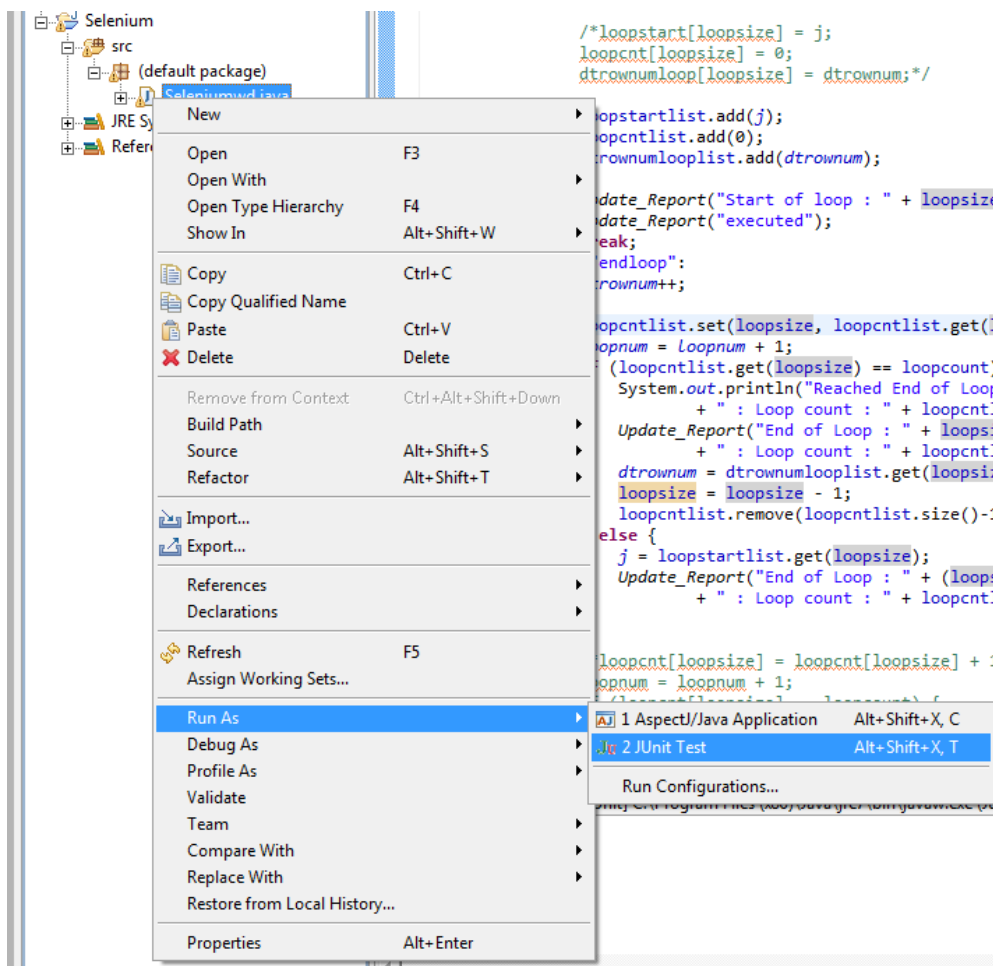
For String array `envtitleMonth` Specify a class name through which we can identify the title month element in calendar control element

For String array `envtitleYear` Specify a class name through which we can identify the title month element in calendar control element

Limitations in using the Date picker controls:

1. Only the specified (JQuery & Bootstrap) date picker types are supported
2. In your Test script, use the date in mm-dd-yyyy format only
3. It may take few minutes to select the date because the key element locators are identified dynamically.
4. The Date Picker Object should be of 'calendar' object type and prefixed by (cal_)
5. For Bootstrap Date picker currently there is no support for 'Inline' type.
6. Only Calendars with English and Japanese text are supported.

8. Right-click on the project or source-code file and choose : Run
as -> JUnit Test



4 Usage of Keywords

The keywords for the test scenario should be entered in the Sheet1 of the Microsoft Excel placed in the Test Scripts folder. The syntax for the keywords can be referred from Selenium Keywords Reference Dictionary Document.

5 Test Results for a Keyword-Driven Script

Test execution results can be viewed and analyzed as soon as the run session ends. To access the test results, go to the Test_Reports folder customized using the test automation framework. Two folders will be available: one showing the summary report for test suite execution, and another folder called Detailed_Report that displays the detailed step-wise test results for each test script. A screenshot will be available for the failure scripts under ScreenShot_Report

C O P Y R I G H T

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