Tutorial Web UI Automation
serenity-cucumber-archetype
Selenium 2 + JUnit + Cucumber

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1. System requirements and environment setup: (See EVOZONdocumentation)

Download and install:

Java **JDK**	http://www.oracle.com/technetwork/java/javase/downloads/index.html (JDK)
Maven	https://maven.apache.org/download.cgi (Binary zip)
Firefox (11)	http://www.filehippo.com/download_firefox/11868/
Chrome (22)	http://www.oldapps.com/google_chrome.php
Eclipse	https://eclipse.org/downloads/ (for Java EE Developers)

Note: in some cases the latest version of the browser might not work with the version of the webdriver you have.

   a. System setup:
- Download and install Java JDK
- Download and place Maven on your c:\ drive
- Download and install desired web browsers

   b. Windows 7 Setup:

Right Click on My Computer - Properties
Click on Advanced System Settings
Click on Environment Variables
In the System Variables section:
Add new variables

M2_HOME	C:\maven
M2	%M2_HOME%\bin

Add new variables

JAVA_HOME	C:\Program Files\Java\jdk1.7.0_04
JAVA	%JAVA_HOME%\bin

In the Path variable add at the end: **;%M2%;%JAVA%**

c. To validate the installation is correct:
Click on start (Windows key) and type **cmd**
Type **mvn -version** (maven version should be displayed)
Type **java -version** (java version should be displayed)

2. Create Maven Project (serenity-cucumber-archetype, i.e. Selenium 2 + JUnit+Cucumber)

2.1. Generate the project

- click **Start** and open a Command prompt window with **cmd**
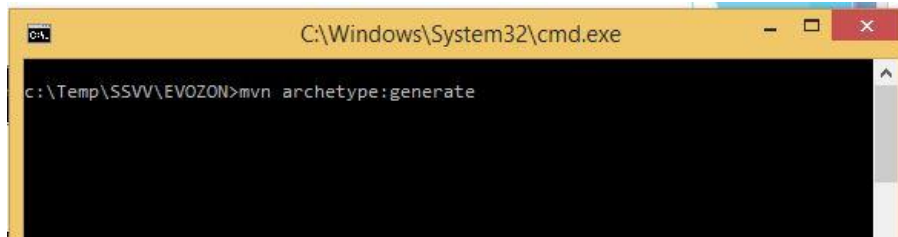- use the command: mvn archetype:generate
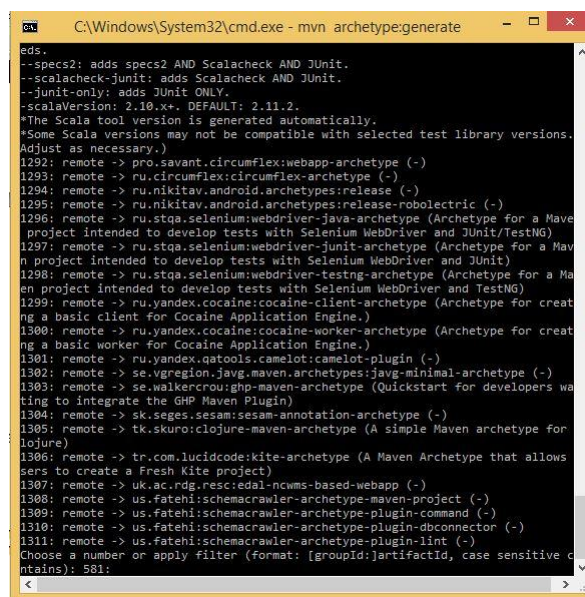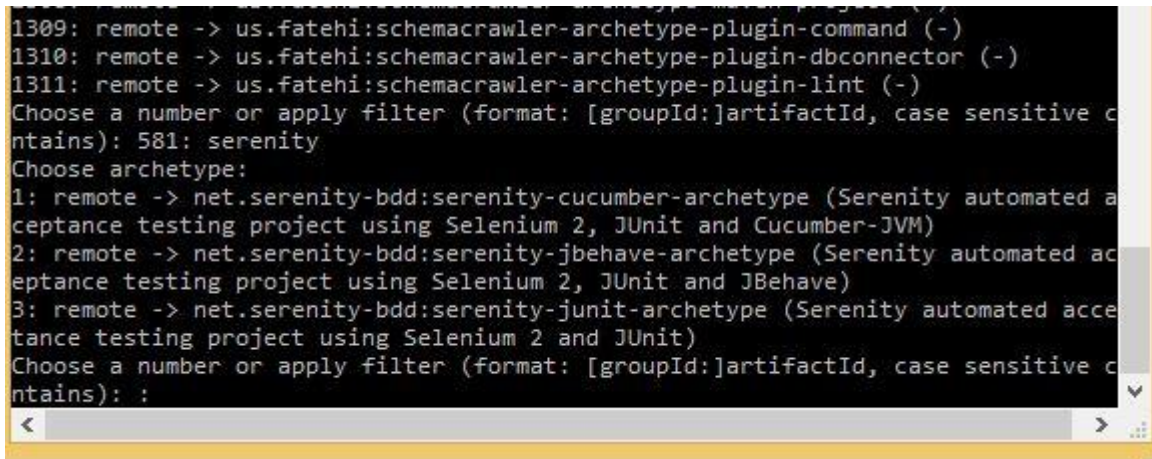

Figure 1a. Generate the Maven project (command)

Figure 1b. Generate the Maven project (command execution)

2.2.   Viewing options for archetype serenity

- Display the options for the Serenity archetype
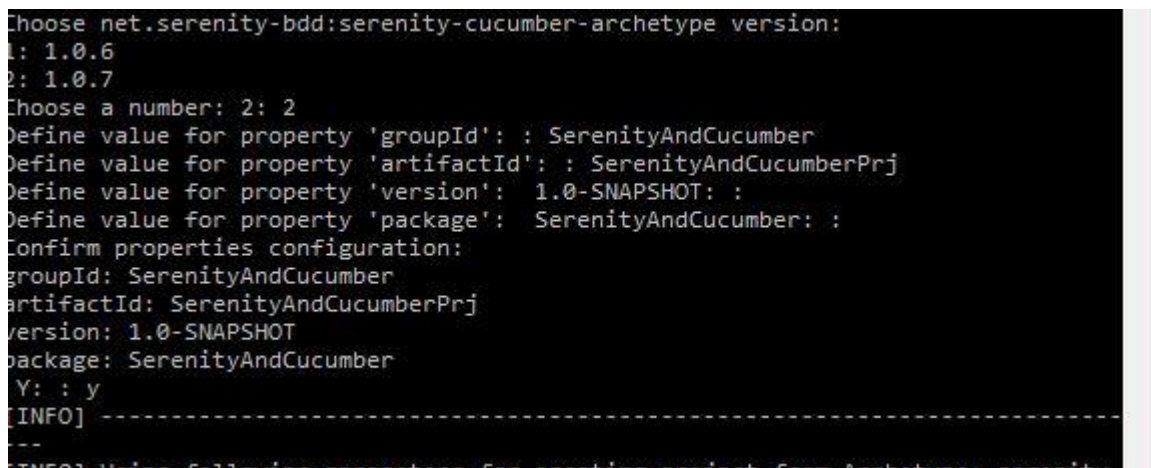- Enter option …> serenity

Figure 2. Filter serenity for archetype

2.3   Selecting archetype for serenity and Cucumber

- Select the first option (3 options available, select the 1st one)
…>1

Figure 3. Choose option for serenity and cucumber

- Select the last version (2 versions available, select the 2nd one)

2.4. Establish property values for the Maven project

- **groupId:** *SerenityAndCucumber*
- **artifactId:** *SerenityAndCucumberPrj*
- **version: <enter>**

- **package : <enter>**
- **at the end the properties of the project are confirmed with command "y"**

3. Import the project in Eclipse
- Open Eclipse
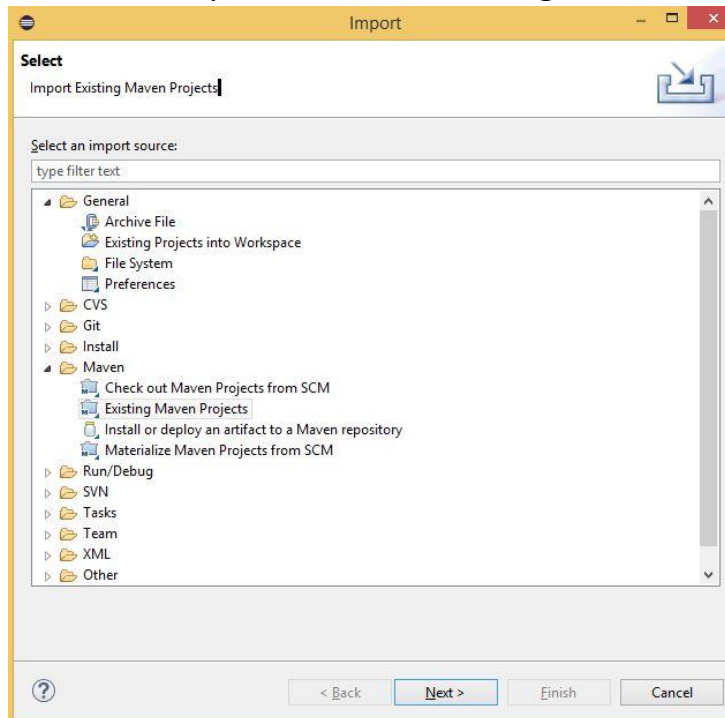- Menu-> File->Import->Maven->Existing Maven Projects

Figure 4 Maven project import in Eclipse

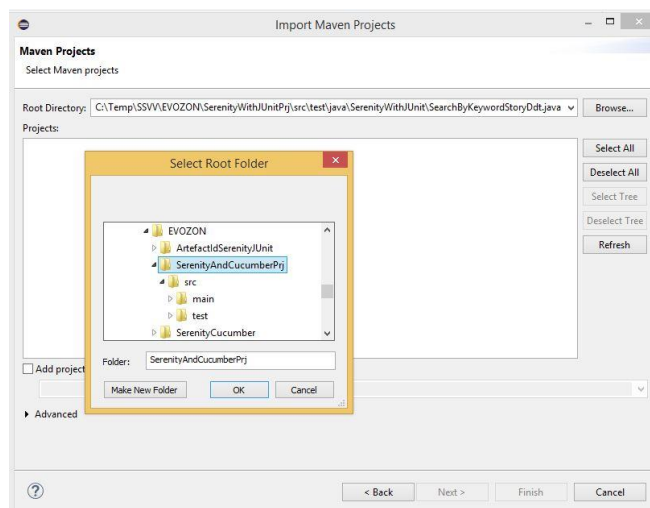- Browse the files and select the created project and click Finish

Figure 5 Select the Maven project created in command line

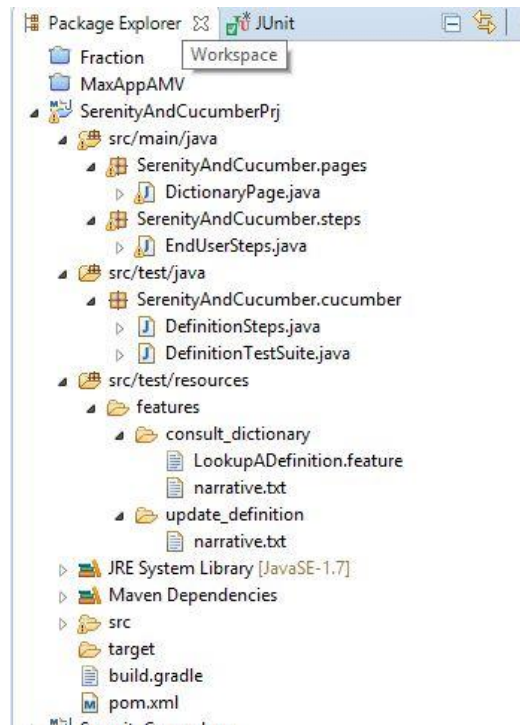## The result is the project with the following package explorer structure

Figure 6 Structure of the Maven project in Eclipse

4. The Scenarios for testing

- In the src/test/resources/ at the LookupADefinition .feature file
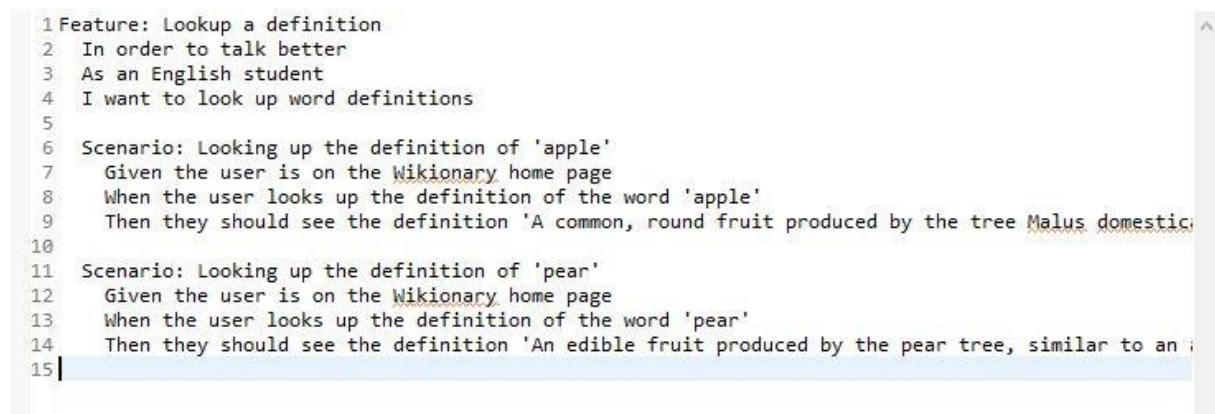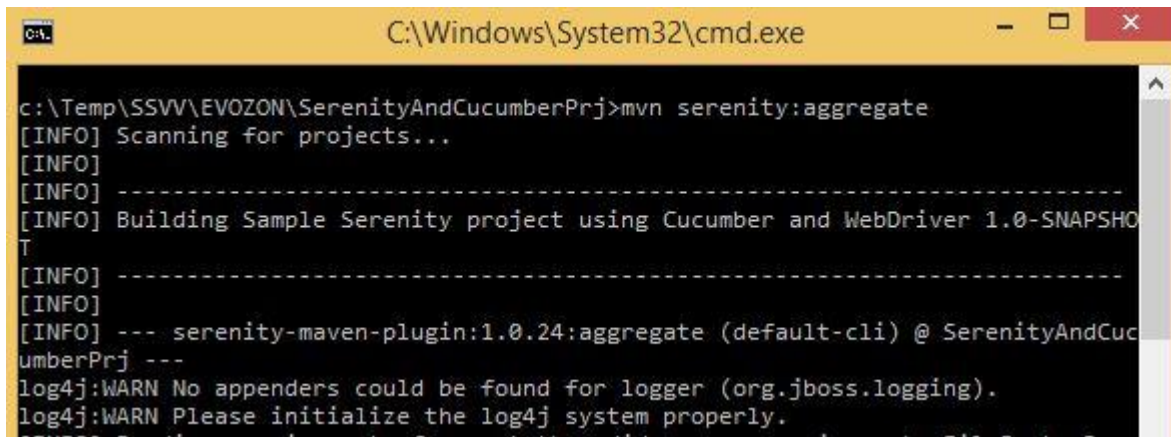

Figure 7 Scenarios for testing

5. Run as JUnit test

- Right-click on the project in Project Explorer and select Run As-> JUnit test
- The Firefox browser is opened and the definitions for "apple" and "pear" and "banana" are searched.

6. Obtaining the documentation for the executed test cases

- Remark: execute the command from the project directory
- ...>mvn serenity:aggregate

Figure 8. Generate Serenity report

7. View the serenity report

- in the project directory ...\target\site\serenity\index.html

Figure 9. View Serenity report

8. Test Data Driven - data for test from csv file
- In the LookupADefinition.feature file add the Scenario Outline

Figure 10. Data driven testing

9. Run as JUnit test
- Right-click on the project tree and select Run As-> JUnit test
- The Firefox browser is opened and the definitions for "pear" and "apple" are searched.

10. Obtaining the documentation for the executed test cases
- Remark: execute the command from the project directory
- ...>mvn serenity:aggregate

- in the project directory ...\target\site\serenity\index.html