

1. Selenium Core

Reference <http://www.seleniumhq.org>

Pre-condition:

- Set up jdk
- Set up IntelliJ
- Learn Basic statements in Java language
- Set up Firefox 46.01, we are using Selenium 2 (already Selenium 3)
- Download Apache maven latest <https://maven.apache.org/download.cgi> (

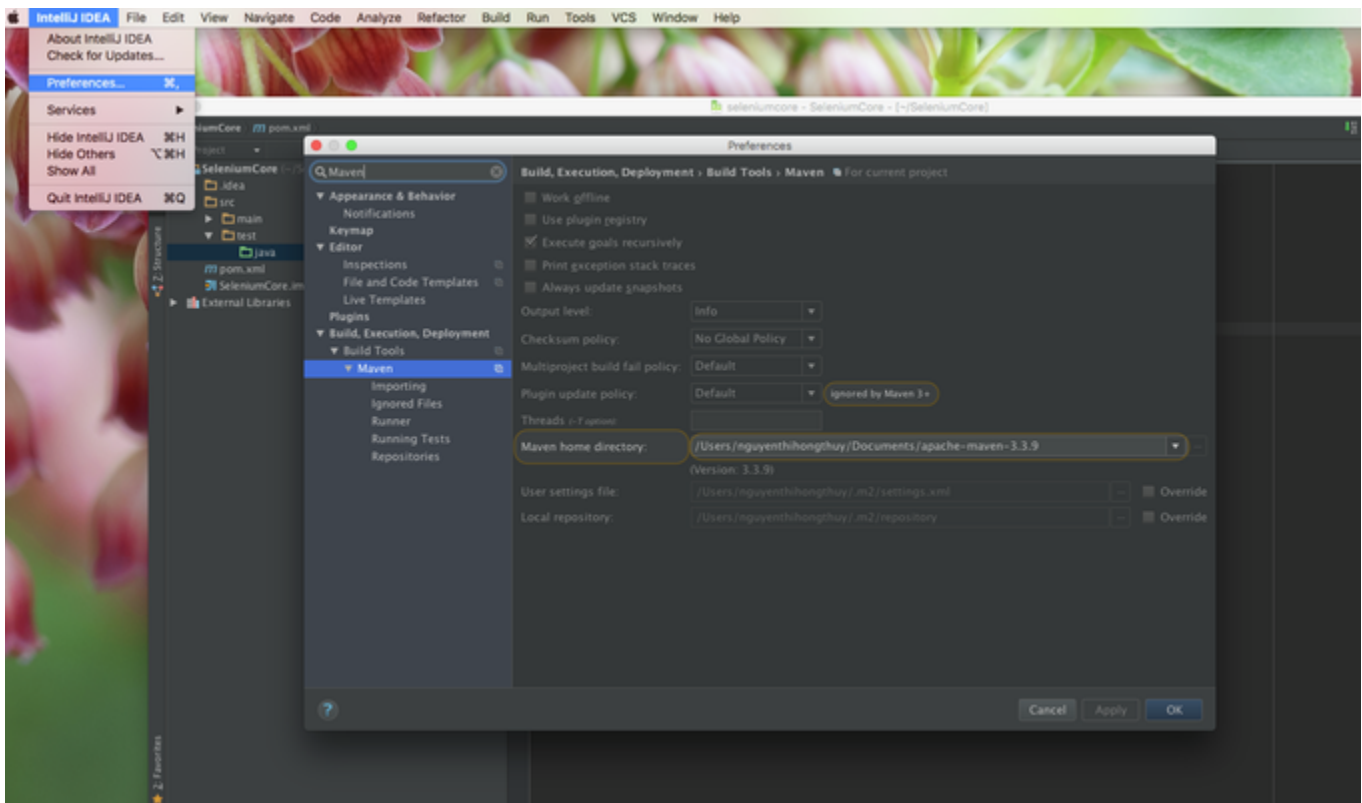
| | |
|--------------------|--|
| Binary zip archive | apache-maven-3.5.0-bin.zip |
|--------------------|--|

- Using Firebug or F12 browser to get locators of elements

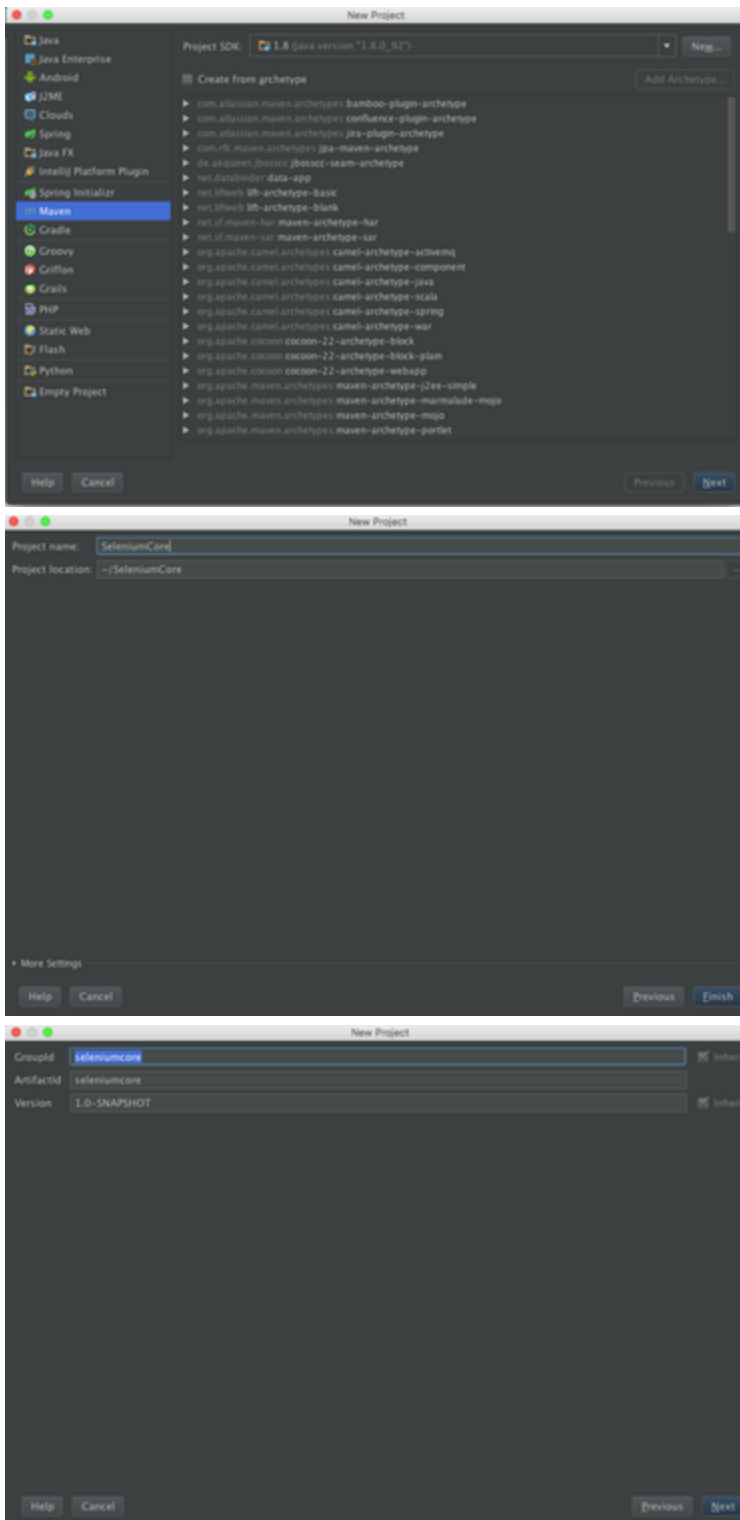
SET UP MAVEN IN INTELLIJ
CREATE MAVEN-PROJECT
PUT LIBS INTO THE PROJECT
MAVEN BUILD
STARTING SIMPLE EXAMPLE

Set up maven in IntelliJ

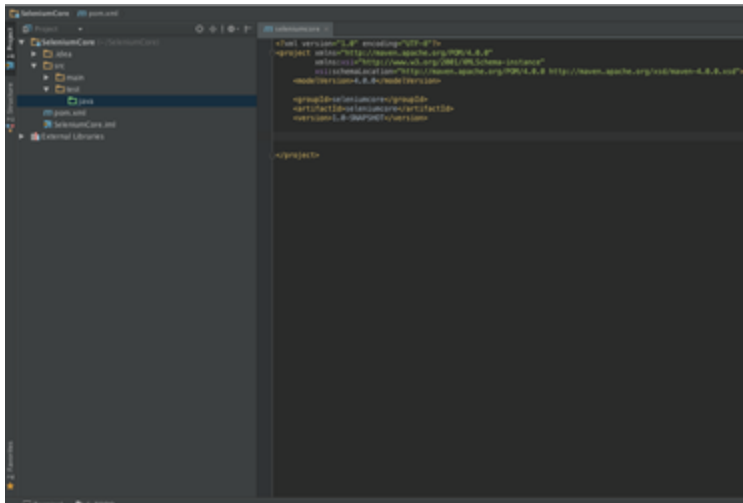
After downloading Apache maven, extract file zip and put your path into the IntelliJ



Create maven-project



After creating maven-project, we have the temple project below:



Put libs into the project

We inserted 3 libs: selenium-standalone, firefox-selenium (not required), junit .

- selenium-standalone: remote webdriver
- firefox-selenium : firefox browser for default
- junit: check/verify expected result and actually result (using Assert.assert ...)

```

<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>basicLevell</groupId>
  <artifactId>basicLevell</artifactId>
  <version>1.0-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
      <version>2.53.0</version>
    </dependency>

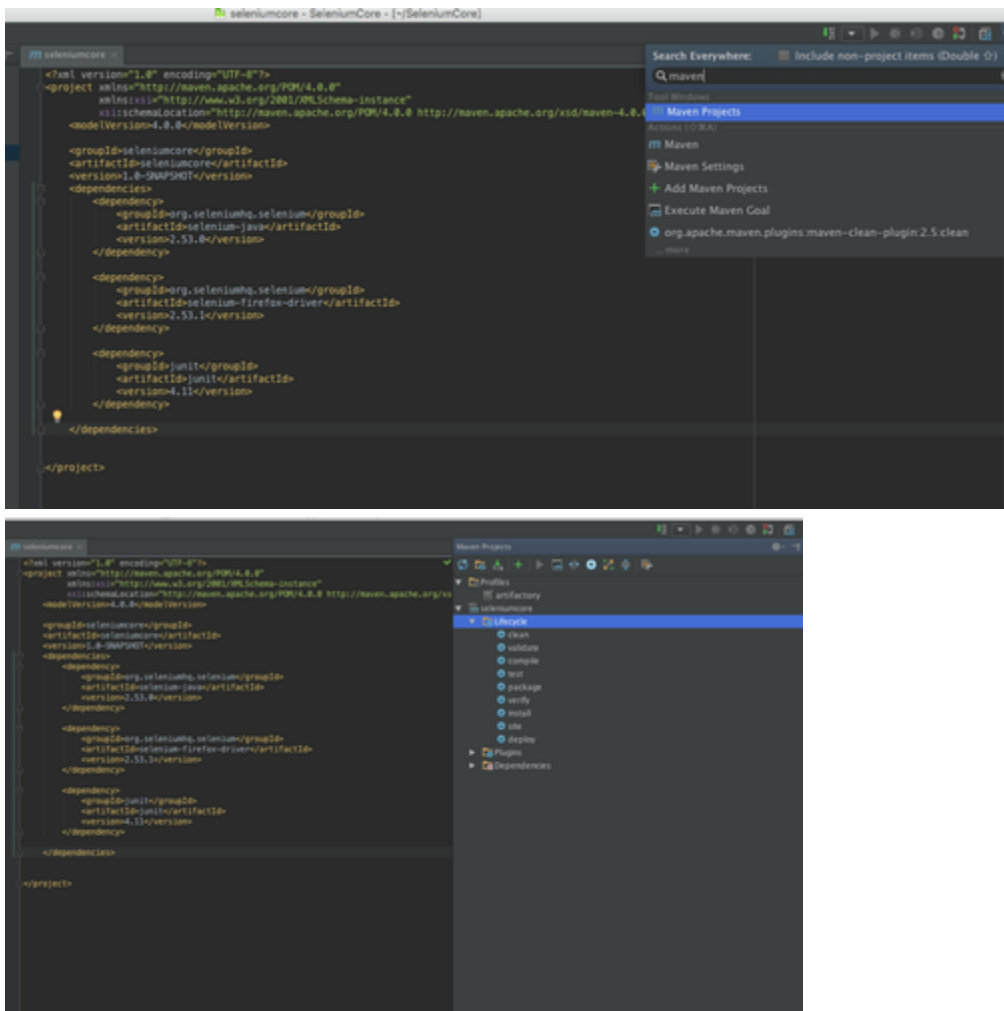
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-firefox-driver</artifactId>
      <version>2.53.1</version>
    </dependency>

    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.11</version>
    </dependency>
  </dependencies>
  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.opera</groupId>
        <artifactId>operadriver</artifactId>
        <version>1.1</version>
        <exclusions>
          <exclusion>
            <groupId>org.seleniumhq.selenium</groupId>
            <artifactId>selenium-remote-driver</artifactId>
          </exclusion>
        </exclusions>
      </dependency>
    </dependencies>
  </dependencyManagement>
</project>

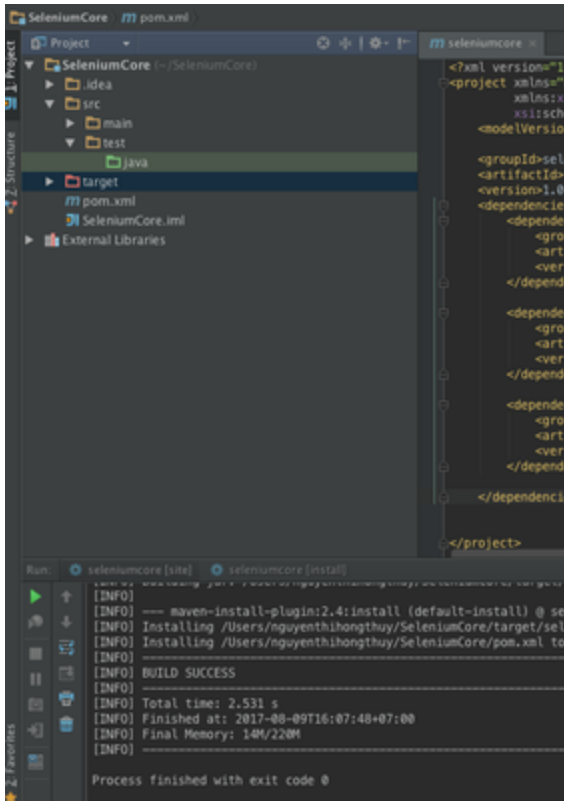
```

Maven build

Clean/install project in first time to download the libs from the internet

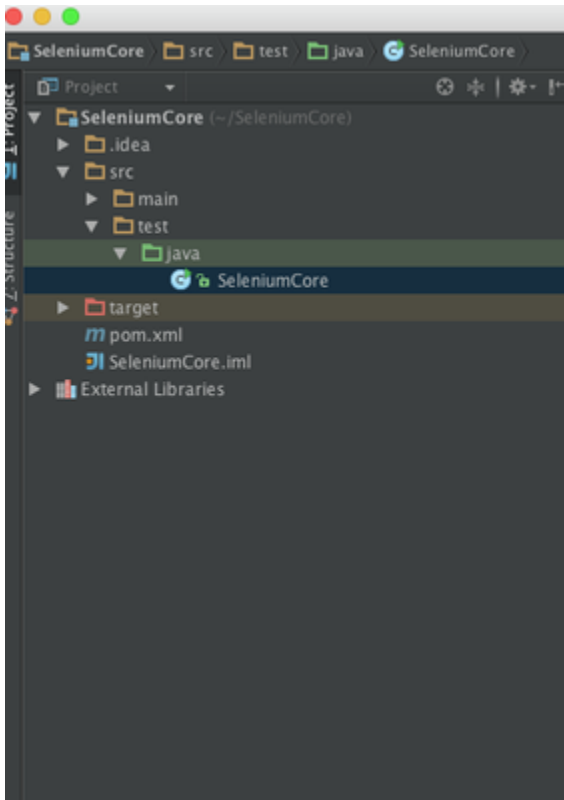


After installing completely, we have the target folder inside project



Starting simple example

Create a java file



```

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.support.ui.Select;

/**
 * Created by nguyenthihongthuy on 09/08/17.
 */
public class SeleniumCore {

    public WebDriver driver;

    public void initiationDriver() {
        // declaration and instantiation of objects/variables
        driver = new FirefoxDriver();
    }

    public void exitDriver() {
        // declaration and instantiation of objects/variables
        driver.close(); //close Firefox

        // exit the program explicitly
        System.exit(0);
    }

    public void openPage() {
        String baseUrl =
"http://way2automation.com/way2auto_jquery/index.php";
        String expectedTitle = "Welcome to the Test Site";
        String actualTitle = "";

        // launch Firefox and direct it to the Base URL
        driver.get(baseUrl);

        // get the actual value of the title
        actualTitle = driver.getTitle();

        /*
         * compare the actual title of the page witht the expected one
and print
         * the result as "Passed" or "Failed"
         */
        if (actualTitle.contentEquals(expectedTitle)) {
            System.out.println("Test Passed!");
        } else {
            System.out.println("Test Failed");
        }
    }
}

```

```

    }

}

public void inputInfo() throws InterruptedException{
    WebElement name = driver.findElement(By.name("name"));
    name.sendKeys("Thuy");
    Thread.sleep(1000);

    WebElement phone = driver.findElement(By.name("phone"));
    phone.sendKeys("905752786");
    Thread.sleep(1000);

    WebElement email = driver.findElement(By.name("email"));
    email.sendKeys("Dat@gmail.com");
    Thread.sleep(1000);

    Select dropdown = new
Select(driver.findElement(By.name("country")));
    dropdown.selectByVisibleText("Argentina");
    WebElement city = driver.findElement(By.name("city"));
    city.sendKeys("danang");
    Thread.sleep(1000);

}

    public static void main (String arg[]) throws
InterruptedException {
        SeleniumCore setup = new SeleniumCore();
        setup.initiationDriver();
        setup.openPage();
        Thread.sleep(2000);
        setup.inputInfo();
        setup.exitDriver();

    }

}

```


After inputting codes into the file, we run the codes by clicking the right mouse.

