



Popular Categories

- Testing Frameworks & Tools
- Android Packages
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- Mocking
- Annotation Libraries
- Web Assets
- Language Runtime

Categories: **Web Testing**

Tags: **quality selenium testing web**

HomePage: <https://selenium.dev/>

Ranking: **#291 in MvnRepository (See Top Artifacts)**  
**#1 in Web Testing**

Used By: **1,839 artifacts**

Central (164) | Atlassian 3rdParty (2) | Alfresco (1) | EmergyaPub (3) | ICM (3)

	Version	Vulnerabilities	Repository	Us
4.28.x	4.28.1		Central	15
	4.28.0		Central	18
4.27.x	4.27.0		Central	58

```

25 selenium components:
26 1. IDE: Record n play: not recommended
27 2. Selenium RC: Selenium 1: Deperecated
28 3. Selenium WebDriver: Selenium 1(RC) + WebDriver=> Selenium WebDriver (Selenium 2.x)--> Selenium 3.x --> Selenium 4.x
29 4. Selenium Grid: to run scripts/tests on cloud, machine, server, remote machine, docker, cloud vendors: LT, Browserstack
30 [OS/browser]: [windows/ch] + [mac + chrome] + [mac+safari]+ [linux+chrome]

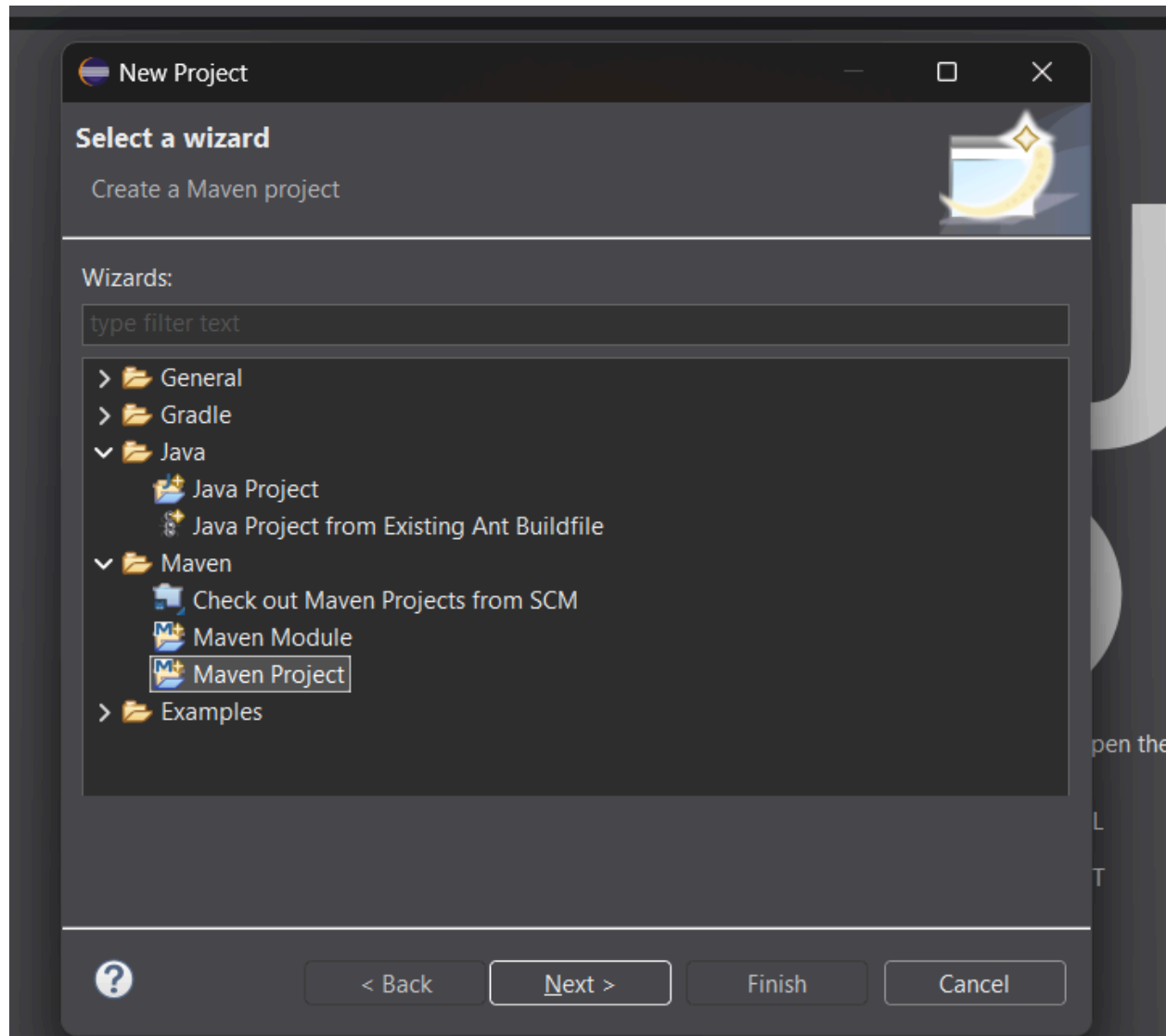
```

```

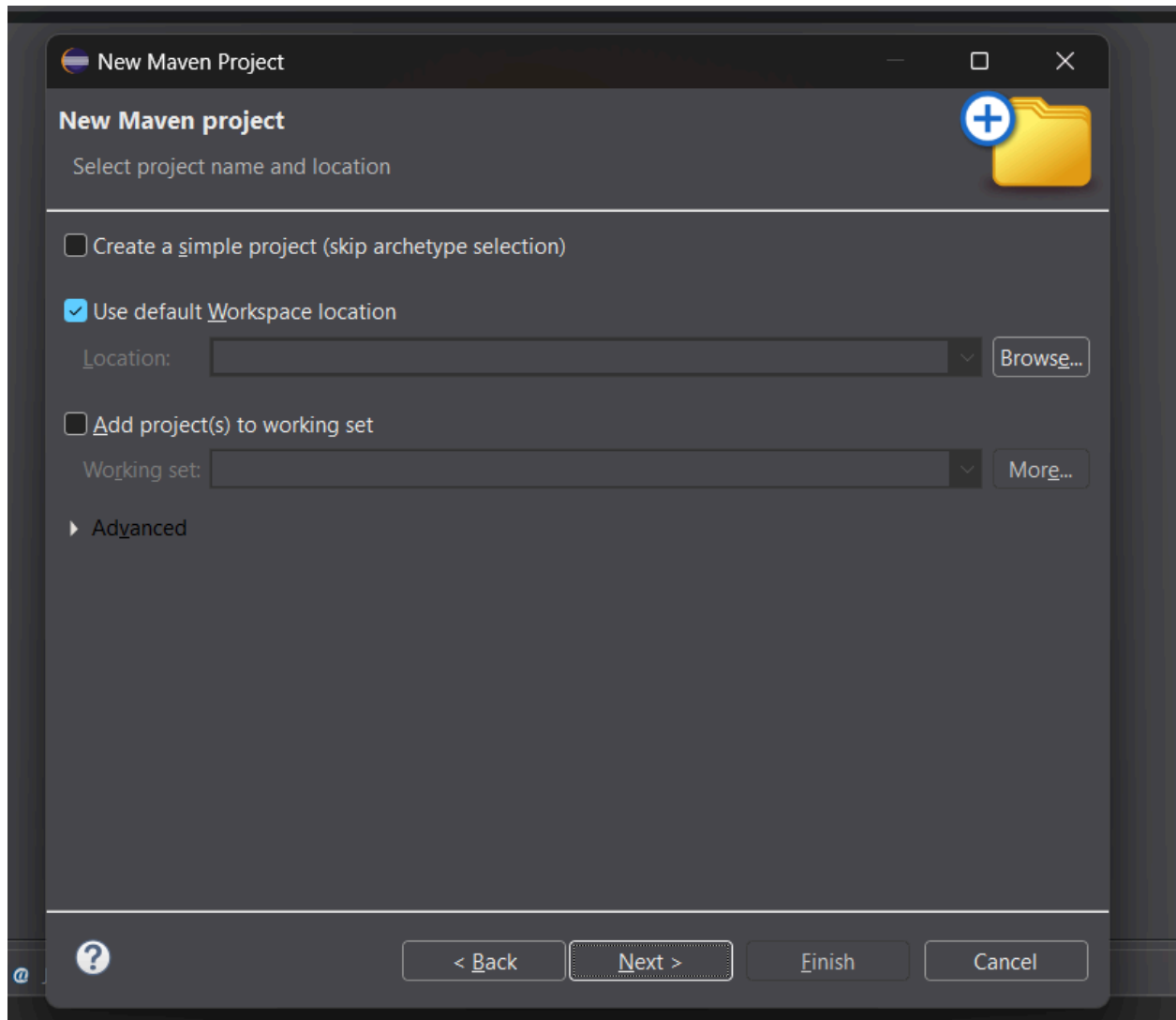
31
32
33 -----
34 Selenium: Library (api+methods), framework, tool
35
36 setup:
37 se+java:
38 Maven Project:
39 add the dependency of selenium 4.x: 4.28.1
40
41

```

Create maven project-



Click next



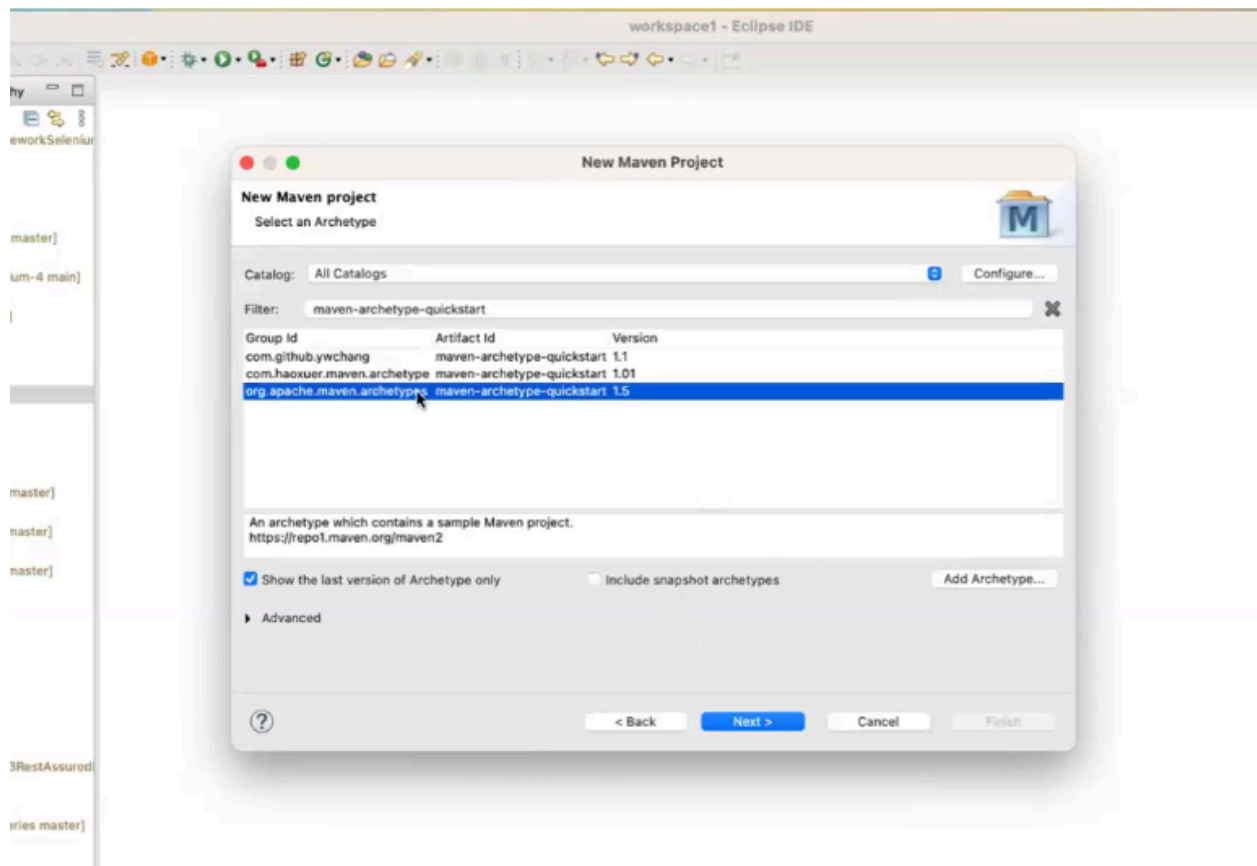
If artifact doesn't come, do it manually from cmd from the path of project—

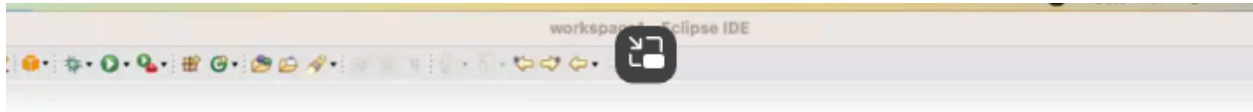
```
C:\Users\karan\Desktop\seleniumByNaveen>mvn archetype:generate -DgroupId=seleniumbatch -DartifactId=seleniumbatch -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.5 -DinteractiveMode=false
[INFO] Scanning for projects...
```

You should get build success.

```
[INFO] Parameter: javaCompilerVersion, Value: 1.0-SNAPSHOT
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[WARNING] Don't override file C:\Users\karan\Desktop
[WARNING] Don't override file C:\Users\karan\Desktop
[WARNING] CP Don't override file C:\Users\karan\Desktop
[INFO] Project created from Archetype in dir: C:\Users\karan\Desktop
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 16.964 s
[INFO] Finished at: 2025-09-14T22:49:12+05:30
[INFO] -----
[WARNING]
```

If the below window doesn't come up-





### New Maven Project

Specify Archetype parameters

Group Id:

Artifact Id:

Version:

Package:

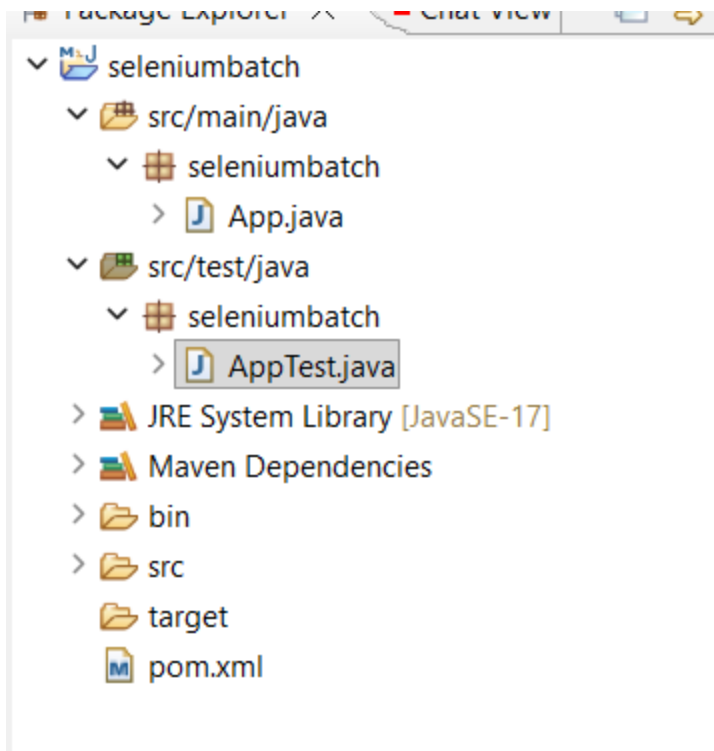
Properties available from archetype:

Name	Value
javaCompilerVersion	17
junitVersion	5.11.0

Advanced

Buttons: < Back, Next >, Cancel, Finish





Open pom-

Remove dependency management from start to end-

```
18
19 <dependencyManagement>
20 <dependencies>
21 <dependency>
22 <groupId>org.junit</groupId>
23 <artifactId>junit-bom</artifactId>
24 <version>5.11.0</version>
25 <type>pom</type>
26 <scope>import</scope>
27 </dependency>
28 </dependencies>
29 </dependencyManagement>
30
```

Remove all dependency inside dependency tag-

```
17 </properties>
18
19 <dependencies>
20
21 </dependencies>
22
23 </build>
```

## Add selenium in dependencies-

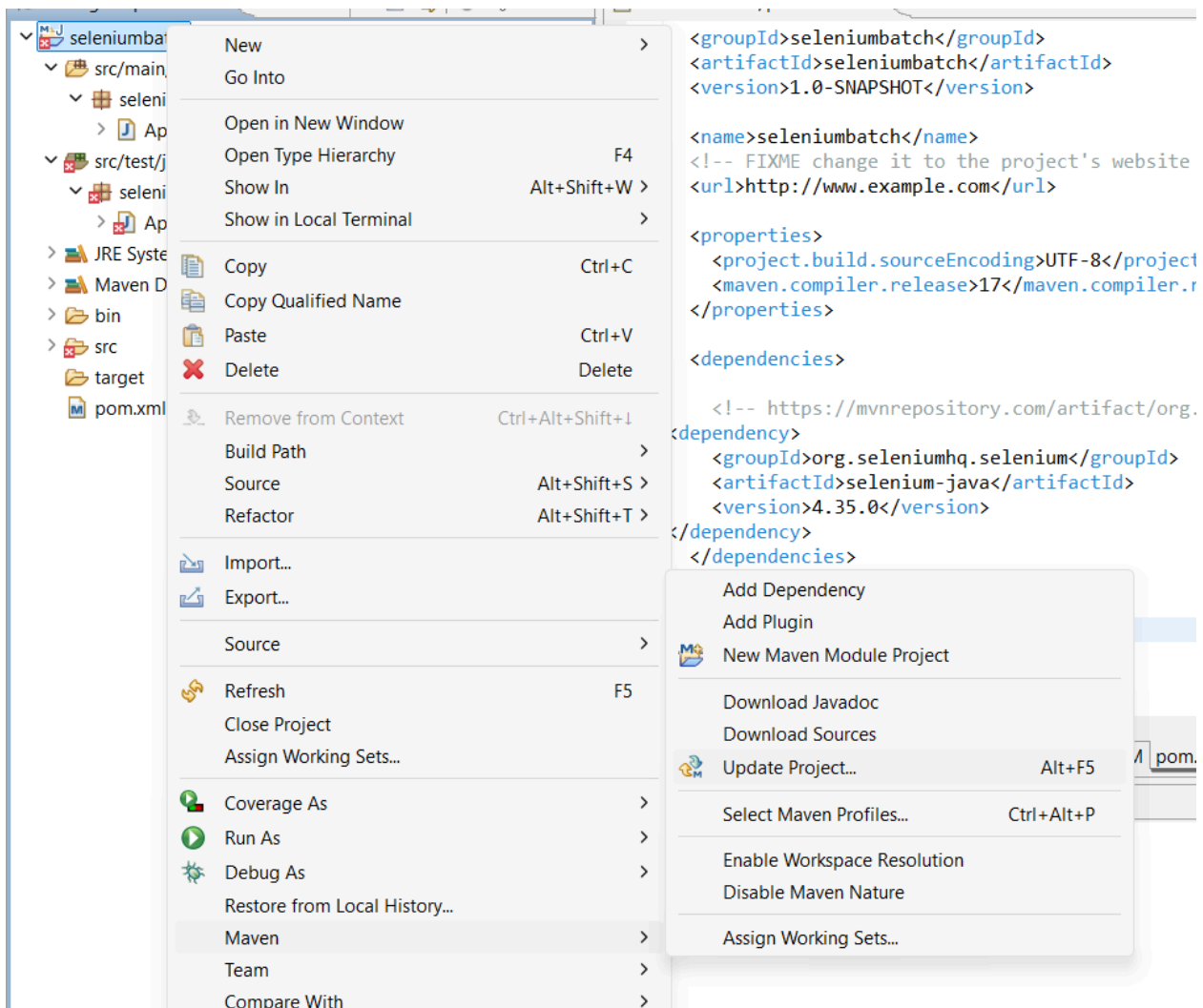
```
20
21     <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
22     <dependency>
23         <groupId>org.seleniumhq.selenium</groupId>
24         <artifactId>selenium-java</artifactId>
25         <version>4.35.0</version>
26     </dependency>
27 </dependencies>
28
```

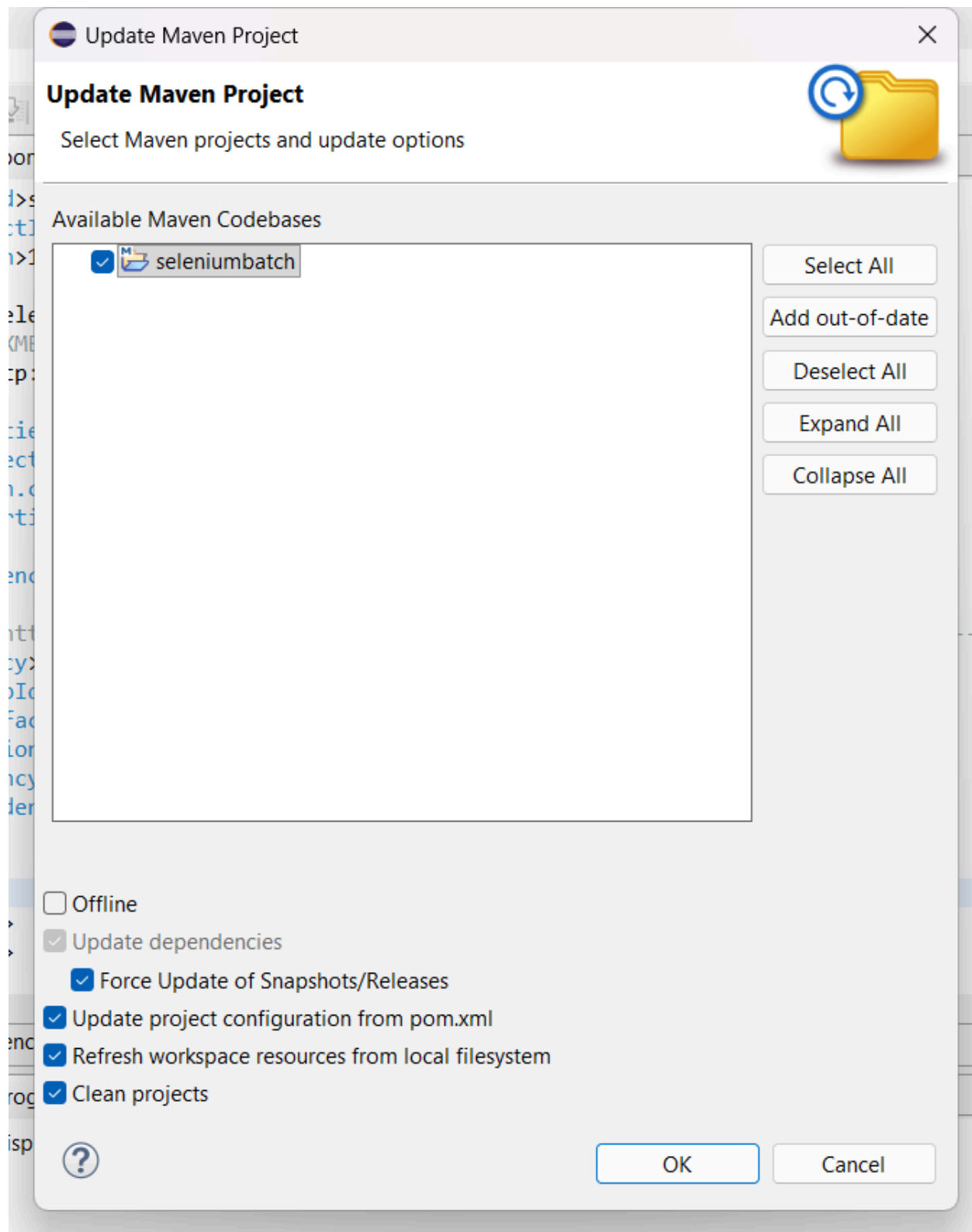
## Remove everything inside build-

```
27     </dependencies>
28
29     <build>
30
31     </build>
32 </project>
33
```

## Update project

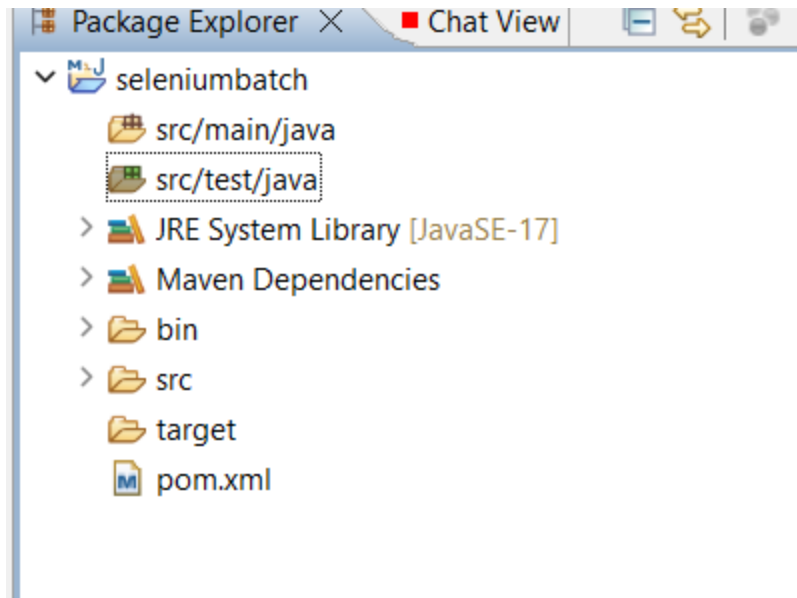






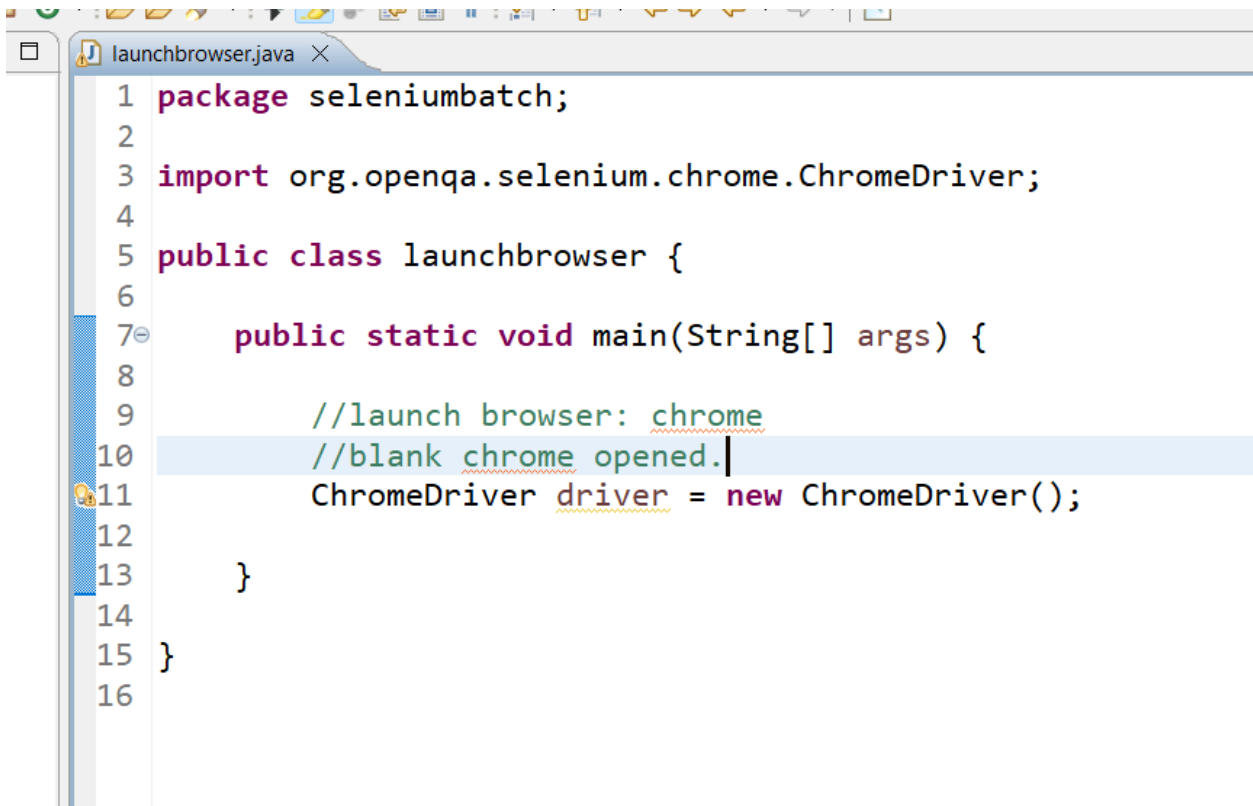
When pom changes always update this area.

Delete all existing package and files-



Open browser

Src main java

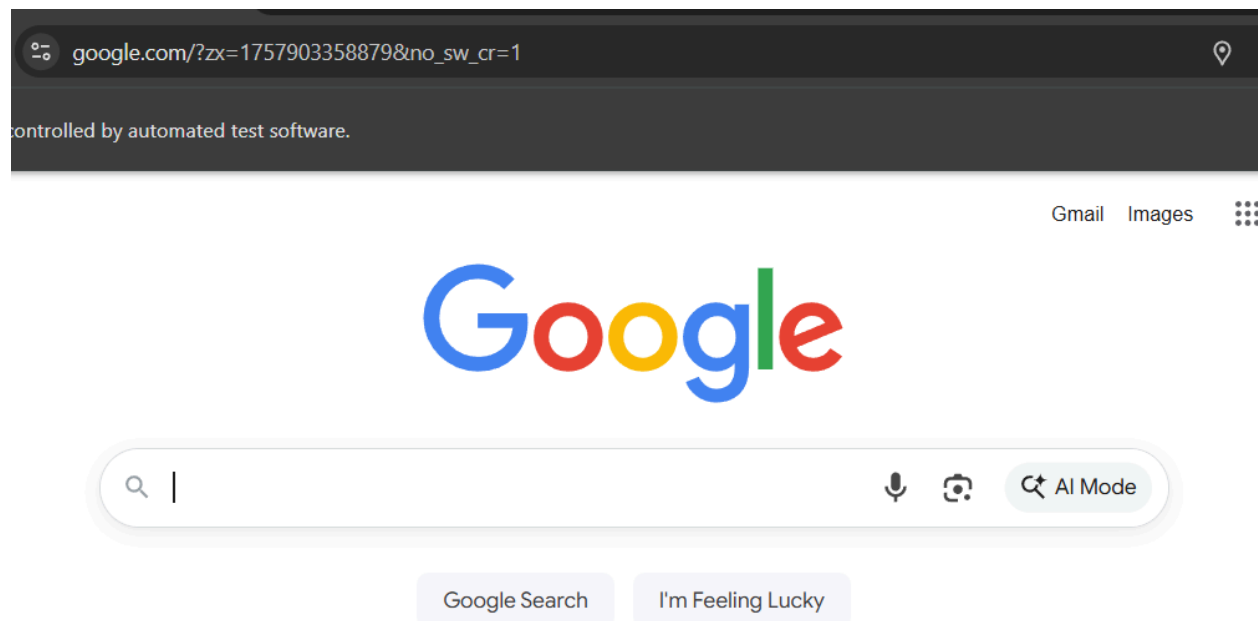


```
clipse  File  Edit  Source  Refactor  Navigate  Search  Project  Scout  Run  Window  Help
workspace1 - Dec2024SeleniumSessions/src/main/java/seleniumsessions/LaunchBrowser.java - Eclipse IDE

LaunchBrowser.java
1 package seleniumsessions;
2
3 import org.openqa.selenium.chrome.ChromeDriver;
4
5 public class LaunchBrowser {
6
7     public static void main(String[] args) {
8
9         //launch browser: chrome
10        ChromeDriver driver = new ChromeDriver();
11
12
13
14    }
15
```

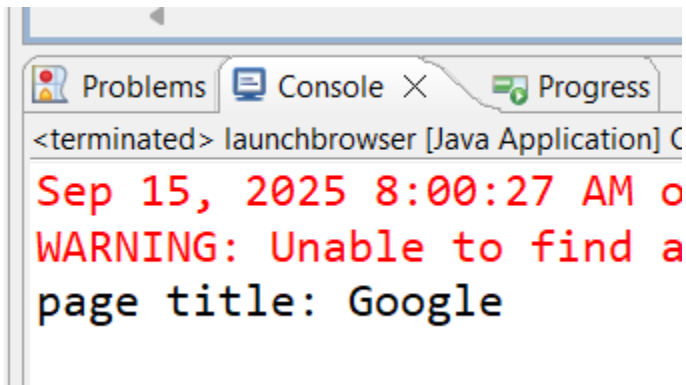
Open url

```
11 ChromeDriver driver = new ChromeDriver();
12
13 //enter the url:
14 driver.get("https://www.google.com");
15
```



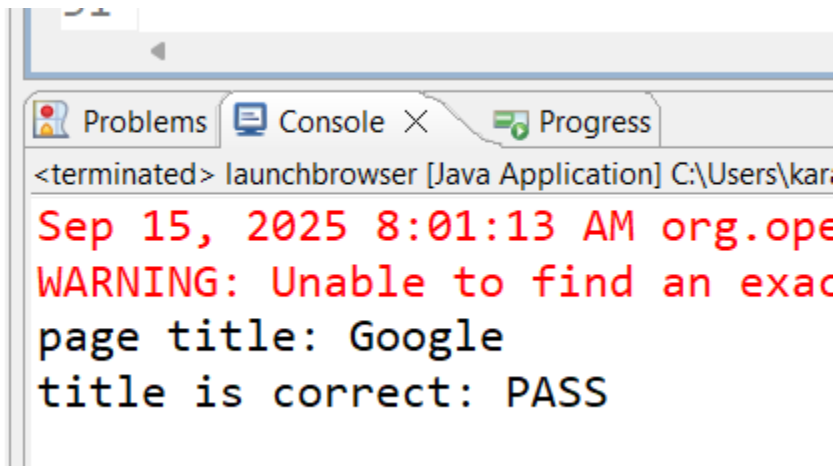
## Get title

```
15  
16 //get the title of the page:  
17 String actTitle = driver.getTitle();  
18 System.out.println("page title: "+ actTitle);  
19
```



## Assert

```
19  
20 //checkpoint/validation point/assertion: act vs exp result:  
21 if(actTitle.equals("Google")) {  
22     System.out.println("title is correct: PASS");  
23 }  
24 else {  
25     System.out.println("title is not correct: FAIL");  
26 }  
27
```

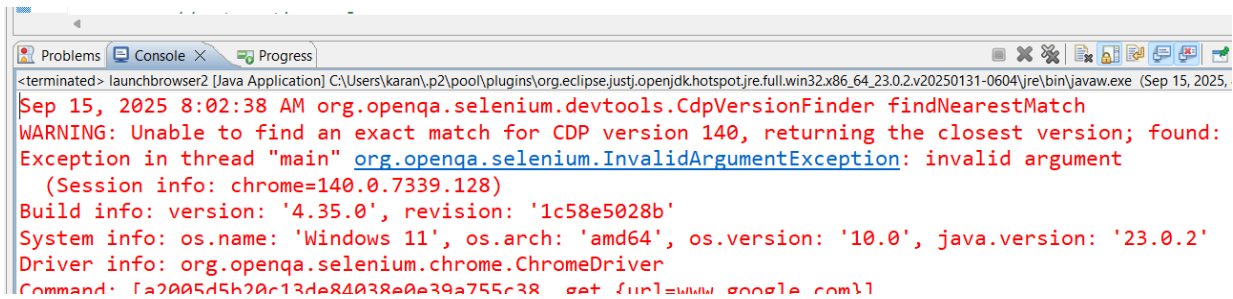


## Close browser

```
29  
30 //close the browser:  
31 driver.quit();  
32
```

## Without https error-

```
12  
13 //enter the url:  
14 driver.get("www.google.com");  
15
```



## Www not mandatory

It works fine.

```
12  
13 //enter the url:  
14 driver.get("https://google.com");  
15
```

## Line 28-

```

2
3 import org.openqa.selenium.chrome.ChromeDriver;
4
5 public class LaunchBrowser {
6
7     public static void main(String[] args) {
8
9         //launch browser: chrome
10        ChromeDriver driver = new ChromeDriver();
11
12        //enter the url:
13        driver.get("https://www.google.com");
14
15        //get the title of the page:
16        String actTitle = driver.getTitle();
17        System.out.println("page title: " + actTitle);
18
19        //checkpoint/validation point/assertion: act vs exp result:
20        if(actTitle.equals("Google")) {
21            System.out.println("title is correct: PASS");
22        }
23        else {
24            System.out.println("title is not correct: FAIL");
25        }
26
27
28        //Automation steps + Checkpoint ==> Automation Testing
29
30        //close the browser:
31        driver.quit();
32
33    }

```

Launch ff  
Edge browser-

```
launchbrowser.java launchbrowser2.java launchbrowser3.java launchbrowser4.java X
1 package seleniumbatch;
2
3 import org.openqa.selenium.chrome.ChromeDriver;
4 import org.openqa.selenium.edge.EdgeDriver;
5 import org.openqa.selenium.firefox.FirefoxDriver;
6
7 public class launchbrowser4 {
8
9     public static void main(String[] args) {
10
11         //launch browser: chrome
12         //blank chrome opened.
13         // ChromeDriver driver = new ChromeDriver();
14         //to launch ff
15         FirefoxDriver driver = new FirefoxDriver();
16         //to launch edge.
17         EdgeDriver driver1=new EdgeDriver();
18     }
```