

Selenium Configuration with Maven

Selenium with Maven

A) Create a Simple Maven Project

File -> New -> Project -> Maven Project

-> New Maven Window (select checkbox - Create a simple Project)

-> Fill the details of (groupid, artifactid) -> click on Finish

Once Maven project is created, we will get below folder structure

- a) src/main/java
- b) src/main/resources
- c) src/test/java
- d) src/test/resources
- e) pom.xml

Open pom.xml file and add selenium-java dependency under <dependencies> tag

```
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-java</artifactId>
  <version>4.1.4</version>
</dependency>
```

Download and install below browsers

- 1) Chrome browser
- 2) Microsoft Edge browser
- 3) IE browser
- 4) Safari browser
- 5) FireFox browser

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Download below Browser Specific drivers

- 1) Chrome Browser - Chrome Driver is required
- 2) For Edge browser - Edge Driver is required
- 3) For IE browser - IE Driver is required
- 4) For Safari browser -Safari Driver is required
- 5) For FireFox browser - FireFox Driver is required

If browsers are already available then based on requirement need to update to latest version

These driver specific exe files we need to download manually
Maven is not going to download these executable files

Note : Before downloading drivers first check your browser version
and based on that version, we need to download that specific version driver

How to check version of browsers?

Chrome Browser -> go to setting -> About chrome
or
-> go to help -> About Chrome

Firefox -> go to help -> About Firefox

Opera -> on left top most corner click on opera icon -> Help
-> About Opera

How to download Browser Drivers?

1) Chrome -> Go to selenium official website (selenium.dev) -> Download

2) Firefox -> <https://github.com/mozilla/geckodriver/releases>

3) IE -> Go to selenium official website (selenium.dev) -> Download

4) Edge -> Go to selenium official website (selenium.dev) -> Download

5) Opera -> <https://github.com/operasoftware/operachromiumdriver/releases?page=1>

Note : Whatever browser version is available that same version driver is not
available then we can take its higher version driver but don't use lower
version driver

Create a package
create a simple class with main method and write browser
launch logic

Step 1: Set path of Browser Driver by using

```
System.setProperty("key", "value");
```

Here Key is predefined and we cannot change that

1) key for chrome browser Driver is :-> webdriver.chrome.driver

2) Key for Edge browser driver is :-> webdriver.edge.driver

3) key for IE browser driver is : webdriver.ie.driver

4) key for Firefox browser driver is : webdriver.gecko.driver

About setProperty() method

Parameters:

key - the name of the system property.

value - the value of the system property.

Returns: the previous value of the system property,
or null if it did not have one.

Throws:

SecurityException - if a security manager exists and its checkPermission method doesn't allow setting of the specified property.

NullPointerException - if key or value is null.

IllegalArgumentException - if key is empty.

prototype of setProperty() method

```
public static String setProperty(String key,String value)
```