

10. Install and explore selenium for automated testing.

To write test cases we can install selenium driver or add as dependency

Add following dependency in pom.xml

```
<dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>4.25.0</version>
</dependency>

<!--
https://mvnrepository.com/artifact/io.github.bonigarcia/we
bdrivermanager -->
<dependency>
    <groupId>io.github.bonigarcia</groupId>
    <artifactId>webdrivermanager</artifactId>
    <version>5.9.2</version>
</dependency>

<!-- https://mvnrepository.com/artifact/org.testng/testng
-->
<dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>7.10.2</version>
    <scope>test</scope>
</dependency>
```

And save it and update maven project.

11. WRITE A SIMPLE PROGRAM IN JAVASCRIPT AND PERFORM TESTING USING SELENIUM.

CREATE A NEW CLASS UNDER SRC/MAIN/TEST AND WRITE BELOW CODE

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
```

```

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;
import junit.framework.Assert;

public class SimpleTest {

    @Test

    public void simple_Test()
    {
        WebDriverManager.chromedriver().setup();
        WebDriver driver= new ChromeDriver();

        driver.get("http://localhost:8084/mvnregapp");
        driver.manage().window().maximize();

        Assert.assertEquals(driver.getTitle(), "REGISTRATION
EVENT");
        driver.close();
    }
}

```

Right click on this file itself and run as TestNG Test.

12.DEVELOP TEST CASES FOR THE ABOVE CONTAINERIZED APPLICATION USING SELENIUM.

CREATE A NEW CLASS UNDER SRC/MAIN/TEST AND WRITE BELOW CODE

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;
import junit.framework.Assert;

public class TC_register {
    @Test

    public void register_Test()
    {
        WebDriverManager.chromedriver().setup();
        WebDriver driver= new ChromeDriver();

        driver.get("http://localhost:8084/mvnregapp");
        driver.manage().window().maximize();

        driver.findElement(By.id("name")).sendKeys("bnnk");
        driver.findElement(By.id("phone")).sendKeys("76545336
");
        driver.findElement(By.id("email")).sendKeys("nk@gmail
.mm");
        driver.findElement(By.id("btn1")).click();
        Assert.assertEquals(driver.getTitle(), "REGISTRATION
EVENT");
        driver.close();
    }
}
```

Right click on this file itself and run as TestNG Test.