SCREENSHOT

Screenshot 1 — RegistrationTest.java in Spring Tool Suite 4

```java
package JAVA_TESTING;

import java.io.IOException;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import io.github.bonigarcia.wdm.WebDriverManager;

public class RegistrationTest {
    static WebDriver wd;

    public static void main(String[] args) throws InterruptedException, IOException {
        WebDriverManager.chromedriver().setup();
        ChromeOptions option = new ChromeOptions();
        option.setBinary("C:\\Program Files\\BraveSoftware\\Brave-Browser\\Application\\brave.exe");
        wd = new ChromeDriver(option);

        wd.manage().window().maximize();
        try {
            // Navigate to the registration page
            wd.get("https://parabank.parasoft.com/parabank/register.htm");

            // Fill out the registration form
            WebElement userfirstnameInput = wd.findElement(By.id("customer.firstName"));
            userfirstnameInput.sendKeys("standard");
            Thread.sleep(7000);

            WebElement userlastnameInput = wd.findElement(By.id("customer.lastName"));
            userlastnameInput.sendKeys("user");
```


Screenshot 2 — LoginTest.java in Spring Tool Suite 4

```java
package JAVA_TESTING;

import java.io.File;

public class LoginTest {
    static WebDriver wd;

    public static void main(String[] args) throws InterruptedException, IOException {
        WebDriverManager.chromedriver().setup();
        ChromeOptions option = new ChromeOptions();
        option.setBinary("C:\\Program Files\\BraveSoftware\\Brave-Browser\\Application\\brave.exe");
        wd = new ChromeDriver(option);

        wd.manage().window().maximize();
        try {
            // Navigate to the registration page
            wd.get("https://www.saucedemo.com/");

            // Fill out the registration form
            WebElement usernameInput = wd.findElement(By.id("user-name"));
            usernameInput.sendKeys("standard_user");
            Thread.sleep(7000);

            WebElement passwordInput = wd.findElement(By.id("password"));
            passwordInput.sendKeys("secret_sauce");
            Thread.sleep(7000);

            WebElement submitButton = wd.findElement(By.id("login-button"));
            submitButton.click();

        } finally {
            // Close the browser
```

Screenshot 1 — Spring Tool Suite 4, pom.xml editor view

```
workspace-spring-tool-suite-4-4.20.0.RELEASE - JAVA_TESTING/pom.xml - Spring Tool Suite 4

File   Edit   Source   Navigate   Search   Project   Run   Design   Window   Help
```

Project Explorer
- Automate a Web Application
- Basic
- build
- Handling Various Web Elements
- JAVA_TESTING
  - src/main/java
    - JAVA_TESTING
      - LoginTest.java
      - RegistrationTest.java
  - src/test/java
  - JRE System Library [JavaSE-1.8]
  - Maven Dependencies
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- JSP
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- Locating Elements through CSS and XPath
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- MavenHibernateExample
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- SPRING_RESTFUL
- WebDriver Installation and Integration in STS

```xml
 5    <groupId>SPRING_STANDARD_TESTS</groupId>
 6    <artifactId>JAVA_TESTING</artifactId>
 7    <version>0.0.1-SNAPSHOT</version>
 8    <packaging>jar</packaging>
 9
10    <name>JAVA_TESTING</name>
11    <url>http://maven.apache.org</url>
12
13    <properties>
14      <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
15    </properties>
16
17    <dependencies>
18
19      <dependency>
20        <groupId>io.github.bonigarcia</groupId>
21        <artifactId>webdrivermanager</artifactId>
22        <version>5.6.2</version>
23      </dependency>
24
25      <dependency>
26        <groupId>org.seleniumhq.selenium</groupId>
27        <artifactId>selenium-java</artifactId>
28        <version>3.141.59</version>
29      </dependency>
30
31
32    </dependencies>
33  </project>
34
```

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Servers Console Terminal JUnit
<terminated> RegistrationTest (1) [Java Application] D:\Mphasis\sts-4.20.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v20230831-1047\

Writable   Insert   29 : 18 : 925

Screenshot 2 — Spring Tool Suite 4, LoginTest.java console output

```
workspace-spring-tool-suite-4-4.20.0.RELEASE - JAVA_TESTING/src/main/java/JAVA_TESTING/LoginTest.java - Spring Tool Suite 4

File   Edit   Refactor   Source   Source   Navigate   Search   Project   Run   Window   Help
```

RegistrationTest.java   LoginTest.java

```java
 1  package JAVA_TESTING;
```

Servers Console Terminal JUnit
<terminated> RegistrationTest (1) [Java Application] D:\Mphasis\sts-4.20.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v20230831-1047\

```
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 120.0.6099.109 (3419140ab665596f21b385ce136419fde0924272-refs/branch-heads/6099@{#1483})
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver s
ChromeDriver was started successfully.
Jan 03, 2024 6:45:35 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
```