

Selenium Automation Assignment – Demoblaze

Project Description

This project automates basic tasks on the [Demoblaze](#) e-commerce website using **Selenium WebDriver** with Java.

The automation covers the following:

- Opening the website
- User registration
- User login
- Selecting a product category and a specific product
- Closing the browser

The purpose of this assignment is to demonstrate practical knowledge of Selenium locators, browser interactions, and automation flows.

Prerequisites

Before running the scripts, ensure you have the following installed:

Java JDK 8 or higher – for compiling and running Java code

Eclipse IDE (or any Java IDE)

Chrome Browser

Selenium WebDriver Java libraries

Download Selenium JARs and add them as external libraries in your project

WebDriverManager – for automatically managing ChromeDriver

How to Execute the Scripts

Open the Project in Eclipse IDE.

Make sure **Selenium JARs** and **WebDriverManager** are added to your project build path.

Open the class **Assignment.java**.

Run the **main** method as **Java Application**.

The following automation will occur automatically:

- Browser opens **Demoblaze**
- Registers a new user (with unique username)
- Logs in with the registered credentials
- Selects the category and a specific product
- Closes the browser

Note: The username and password can be changed directly in the code:

```
userRegistration("min213", "min324");
userLogin("min213", "min324");
selectCategoryAndProduct("Laptops", "MacBook air");
```

Project Structure

```
SeleniumAssignment/
  -- src/
    -- com/selenium/tests/
      -- Assignment.java
  -- README.md
  -- selenium-java-x.x.x.jar (and other JARs)
  -- WebDriverManager library
```

Test Cases / Steps Performed

Test Case 1: Open Website

Action: Launch the browser and open <https://www.demoblaze.com>

Expected Result: Browser opens and page title is printed

Test Case 2: User Registration

Action: Open registration modal, enter username and password, click Sign Up

Expected Result: Registration alert appears with success message

Test Case 3: User Login

Action: Open login modal, enter registered credentials, click Log In

Expected Result: Welcome message with username is displayed

Test Case 4: Select Category and Product

Action: Click on a category (e.g., Laptops), search for a specific product, and click it

Expected Result: The specified product page is opened

Test Case 5: Close Browser

Action: Quit the browser

Expected Result: Browser closes

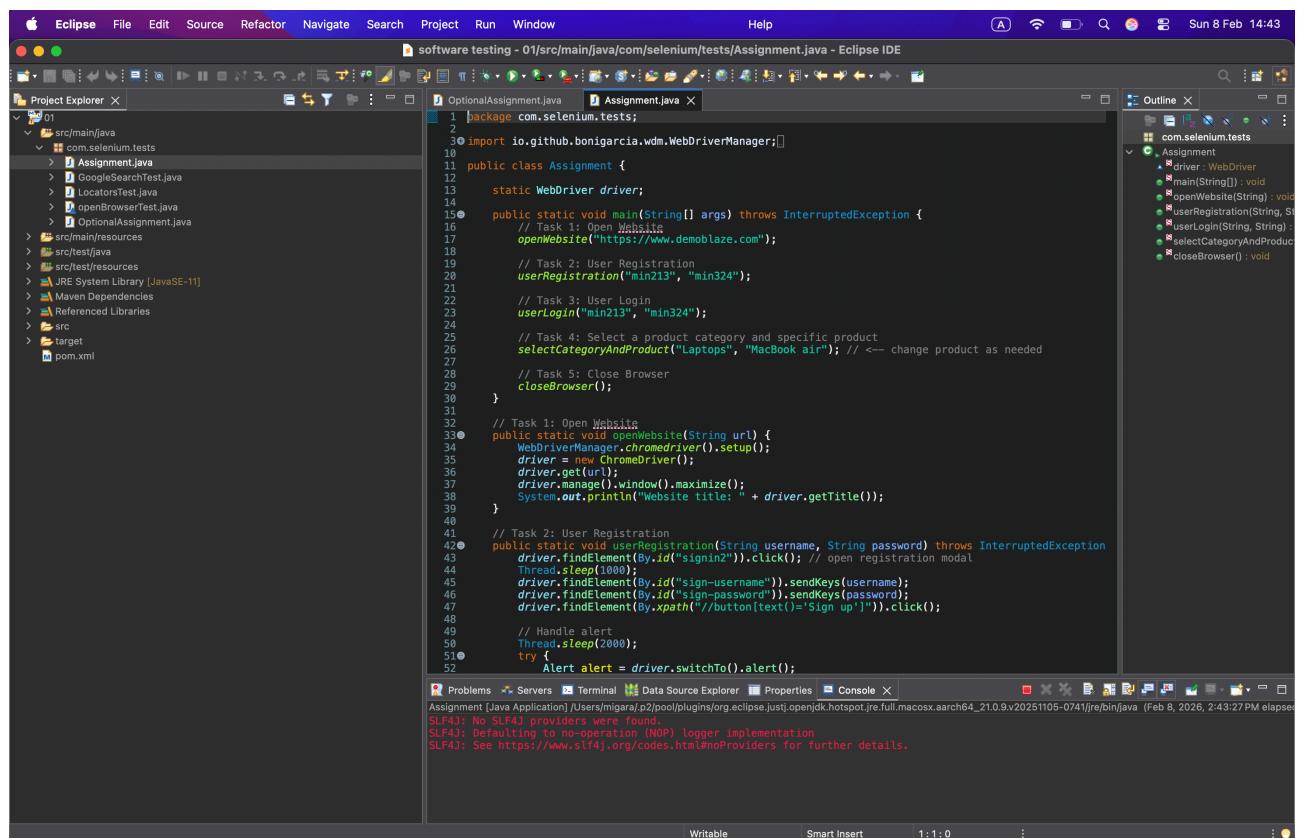
Additional Notes

The script uses `Thread.sleep()` for simple waits. In real projects, it's recommended to use `WebDriverWait` for more reliable automation.

Alerts are handled using `driver.switchTo().alert()` to capture the registration success message.

Unique usernames prevent registration failures due to already existing users.

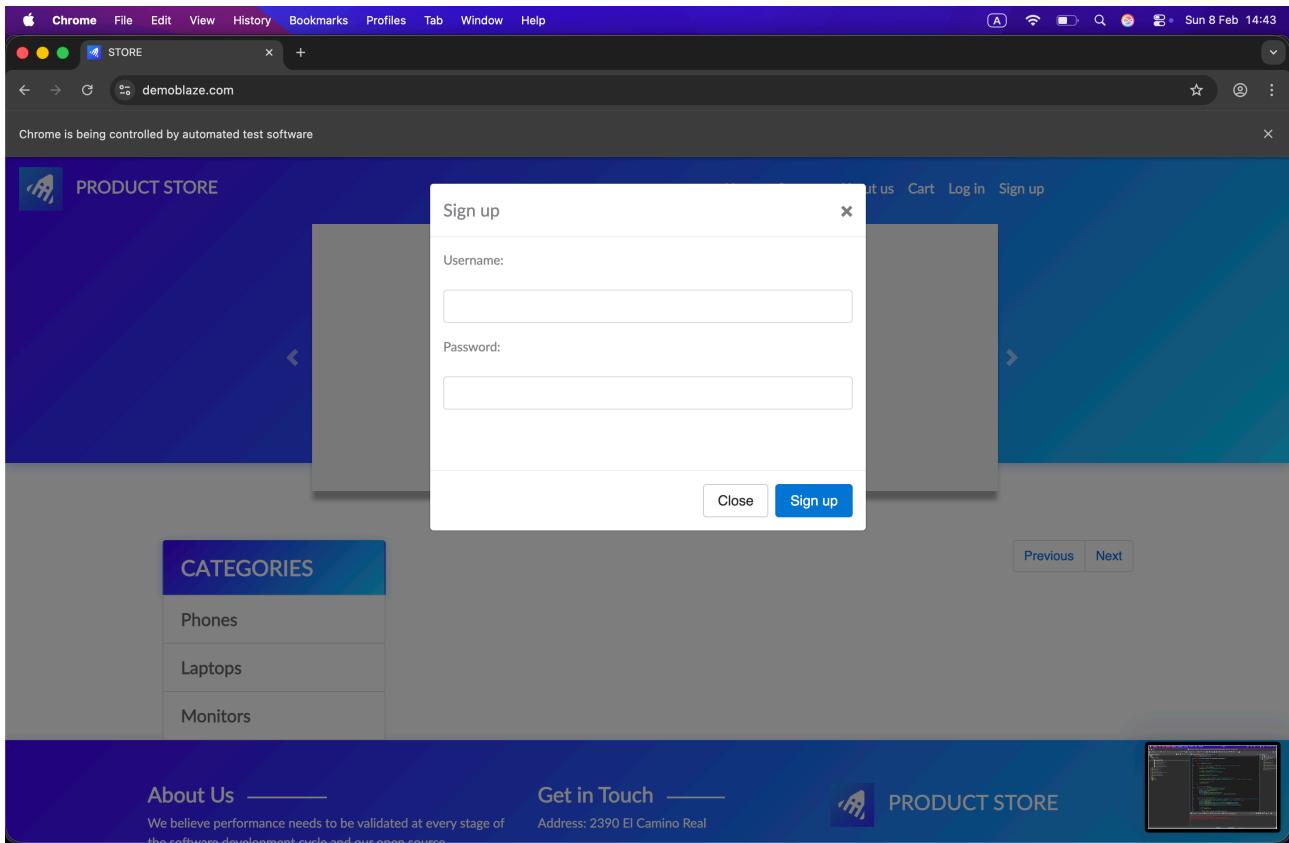
Running the code



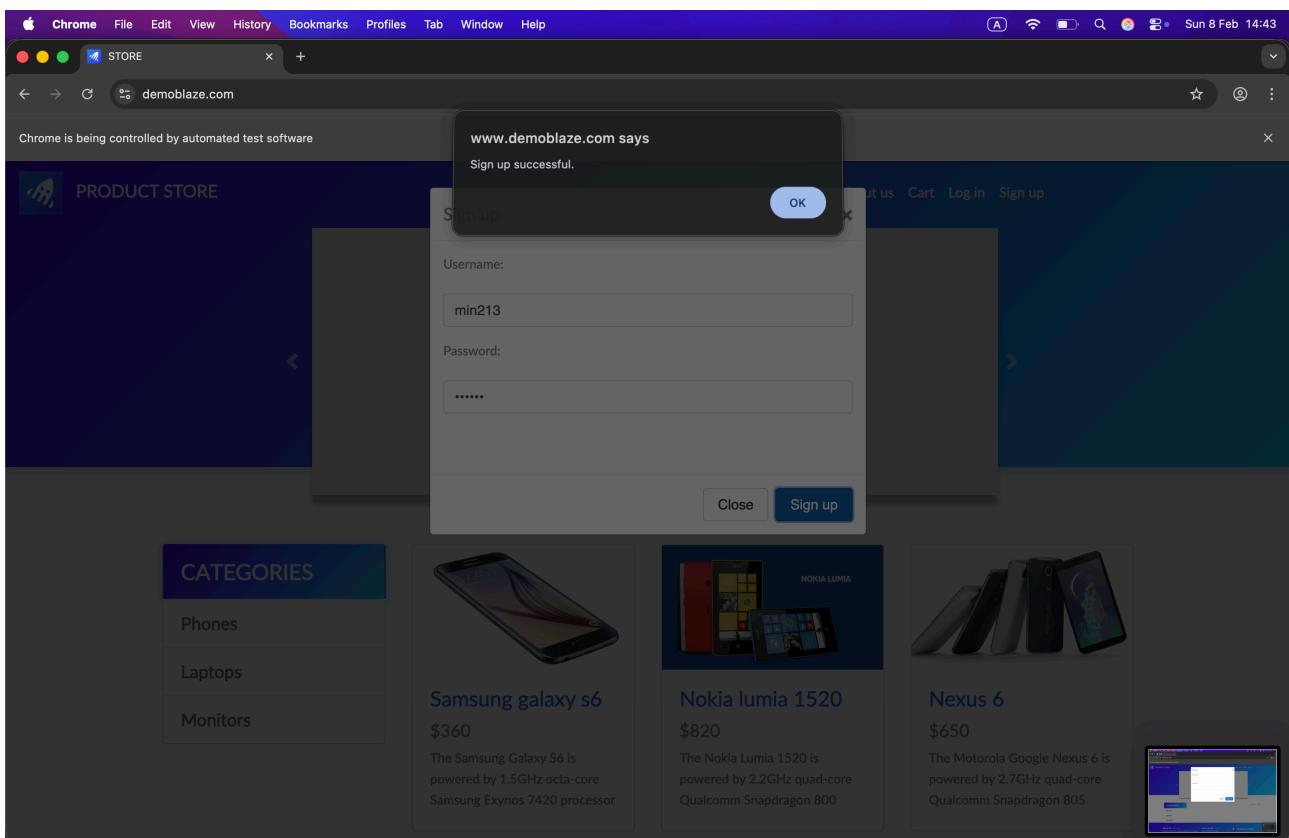
```
1 package com.selenium.tests;
2
3 import io.github.bonigarcia.wdm.WebDriverManager;
4
5 public class Assignment {
6     static WebDriver driver;
7
8     public static void main(String[] args) throws InterruptedException {
9         // Task 1: Open Website
10        openWebsite("https://www.demoblaze.com");
11
12        // Task 2: User Registration
13        userRegistration("min213", "min324");
14
15        // Task 3: User Login
16        userLogin("min213", "min324");
17
18        // Task 4: Select a product category and specific product
19        selectCategoryAndProduct("Laptops", "MacBook air"); // <-- change product as needed
20
21        // Task 5: Close Browser
22        closeBrowser();
23    }
24
25    // Task 1: Open Website
26    public static void openWebsite(String url) {
27        WebDriverManager.chromedriver().setup();
28        driver = new ChromeDriver();
29        driver.get(url);
30        driver.manage().window().maximize();
31        System.out.println("Website title: " + driver.getTitle());
32    }
33
34    // Task 2: User Registration
35    public static void userRegistration(String username, String password) throws InterruptedException {
36        driver.findElement(By.id("signUp")).click(); // open registration modal
37        Thread.sleep(1000);
38        driver.findElement(By.id("sign-username")).sendKeys(username);
39        driver.findElement(By.id("sign-password")).sendKeys(password);
40        driver.findElement(By.xpath("//button[text()='Sign up!']").click();
41
42        // Handle alert
43        Thread.sleep(2000);
44        try {
45            Alert alert = driver.switchTo().alert();
46            alert.accept();
47        } catch (NoAlertPresentException e) {
48            System.out.println("No alert present");
49        }
50    }
51
52    // Task 5: Close Browser
53    public static void closeBrowser() {
54        driver.quit();
55    }
56}
```

Assignment [Java Application] /Users/migra/p2pool/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.macosx.aarch64_21.0.9.v20251105-0741/jre/bin/java (Feb 8, 2026, 2:43:27 PM elapse)
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.

registration



login



View categories

A screenshot of a web browser window displaying a product store. The top navigation bar includes links for Home, Contact, About us, Cart, Log out, and Welcome min213. On the left, a sidebar titled "CATEGORIES" lists "Phones", "Laptops", and "Monitors". The main content area features a large image of two Samsung Galaxy S6 phones and a stylus. Below this, there are three product cards:

- Samsung galaxy s6** \$360. Description: The Samsung Galaxy S6 is powered by 1.5GHz octa-core Samsung Exynos 7420 processor.
- Nokia lumia 1520** \$820. Description: The Nokia Lumia 1520 is powered by 2.2GHz quad-core Qualcomm Snapdragon 800.
- Nexus 6** \$650. Description: The Motorola Google Nexus 6 is powered by 2.7GHz quad-core Qualcomm Snapdragon 805.

select category as laptops

A screenshot of a web browser window displaying a product store. The top navigation bar includes links for Home, Contact, About us, Cart, Log out, and Welcome min213. On the left, a sidebar titled "CATEGORIES" lists "Phones", "Laptops", and "Monitors". The main content area features a large image of two Samsung Galaxy S6 phones and a stylus. Below this, there are three product cards:

- Sony vaio i5** \$790. Description: Sony is so confident that the VAIO S is a superior ultraportable laptop that the
- Sony vaio i7** \$790. Description: REVIEW Sony is so confident that the VAIO S is a superior ultraportable laptop that the
- MacBook air** \$700. Description: 1.6GHz dual-core Intel Core i5 (Turbo Boost up to 2.7GHz) with 3MB shared L3 cache

Search for a specific laptop

A screenshot of a MacBook Air product page on a website. The page is titled "MacBook air" and shows a price of \$700. An "Add to cart" button is visible. The background features a dark blue header with a logo and navigation links.

MacBook air

\$700 · includes tax

Add to cart

About Us

We believe performance needs to be validated at every stage of the software development cycle and our open source compatible, massively scalable platform makes that a reality.

Get in Touch

Address: 2390 El Camino Real
Phone: +440 123456
Email: demo@blazemeter.com

PRODUCT STORE

A small image of a tablet displaying a website.

