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Roll No: 242466

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Practical No: 7

Date Of Performance: 19/09/2025

Aim: To demonstrate automation testing of a web application using Selenium.

**New Maven Project**

Configure project

**Artifact**

Group Id: com.example

Artifact Id: selenium-login-test

Version: 0.0.1-SNAPSHOT

Packaging: jar

Name: Selenium Login Test

Description: Automated login test using Selenium and TestNG

**Parent Project**

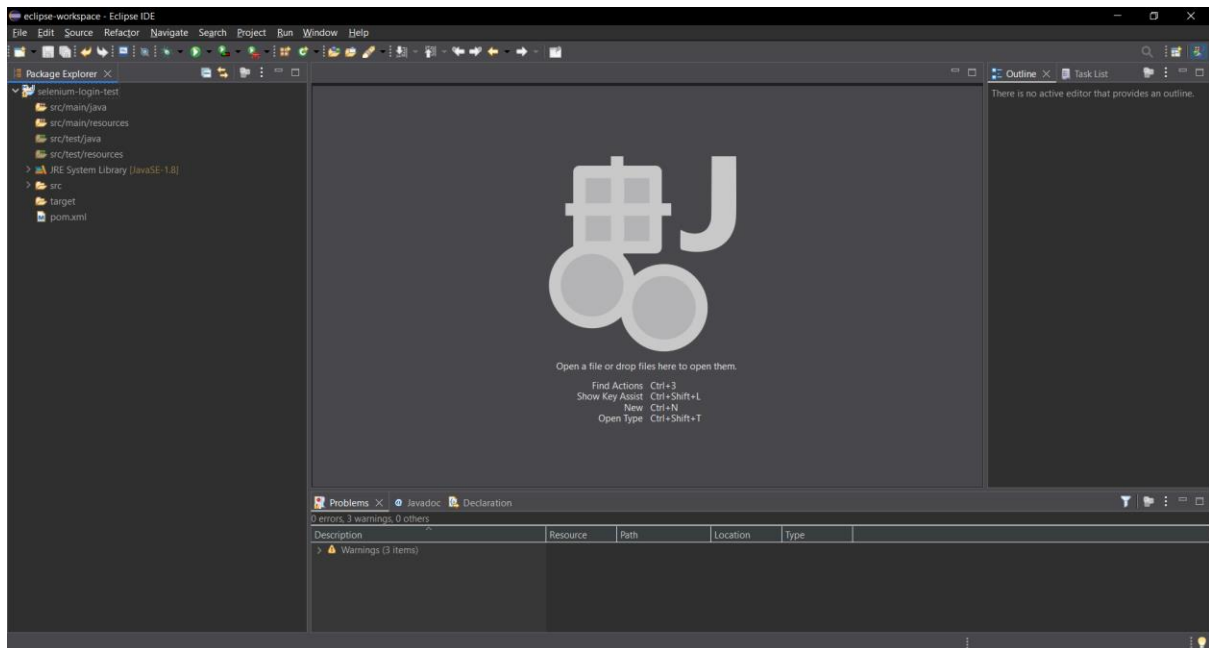
Group Id:

Artifact Id:

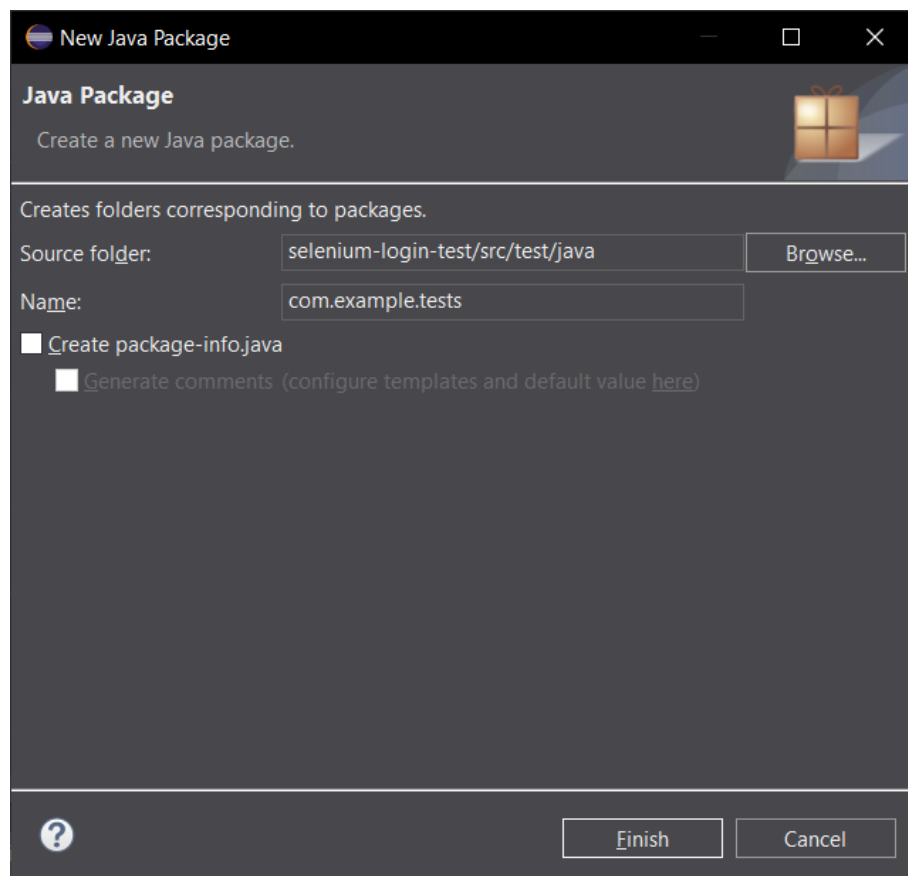
Version: Browse... Clear

► Advanced

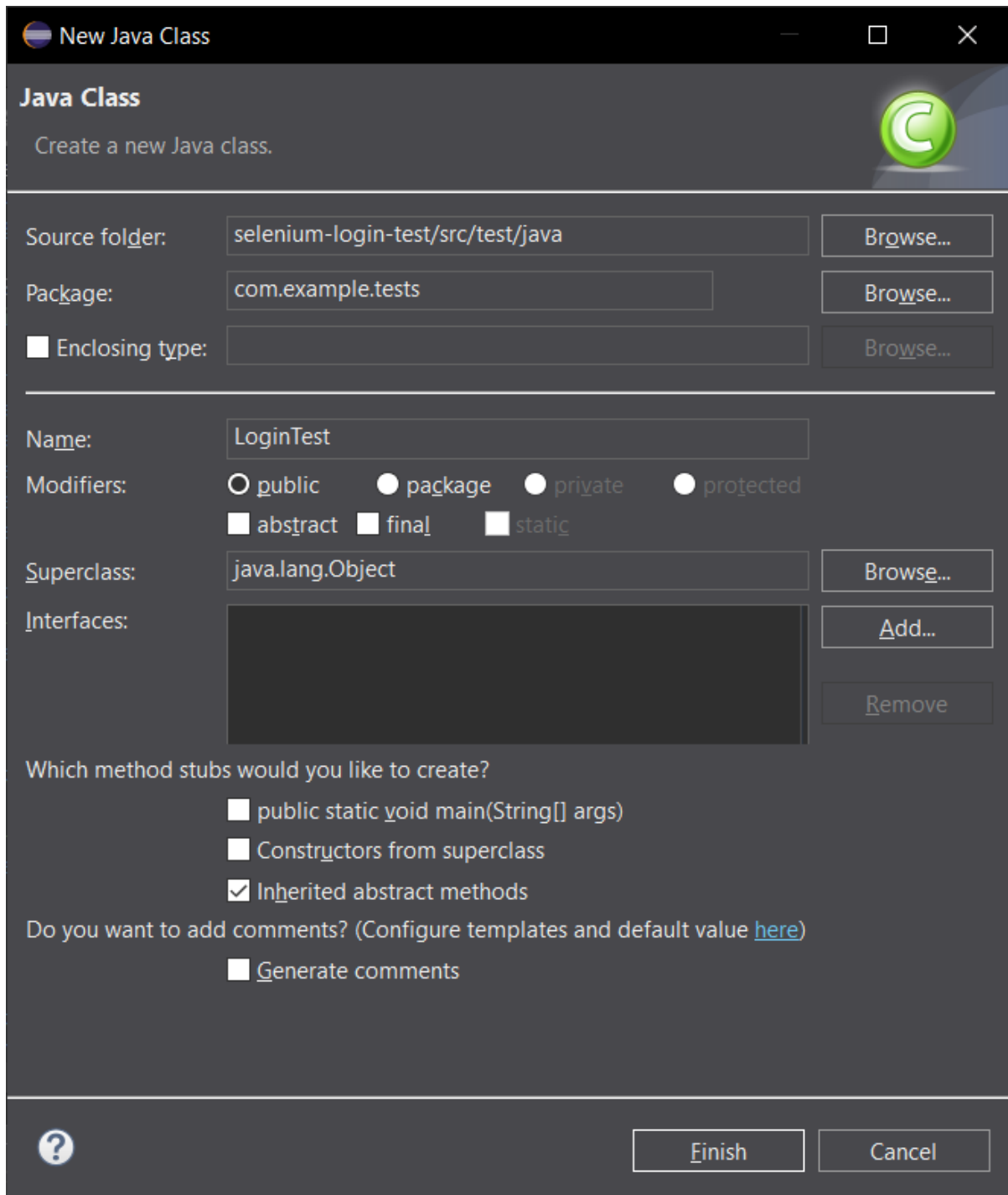
? < Back Next > Finish Cancel



New Maven Project Created



Creating Java Package

A screenshot of the 'New Java Class' dialog box in an IDE. The dialog has a title bar with a question mark icon, a maximize button, and a close button. The main area is titled 'Java Class' with a subtitle 'Create a new Java class.' and a green circular icon with a 'C' on the right. The 'Source folder' is 'selenium-login-test/src/test/java' with a 'Browse...' button. The 'Package' is 'com.example.tests' with a 'Browse...' button. The 'Enclosing type' is empty with a 'Browse...' button. The 'Name' is 'LoginTest'. The 'Modifiers' section has radio buttons for 'public' (selected), 'package', 'private', and 'protected', and checkboxes for 'abstract', 'final', and 'static'. The 'Superclass' is 'java.lang.Object' with a 'Browse...' button. The 'Interfaces' section is empty with 'Add...' and 'Remove' buttons. Below this, it asks 'Which method stubs would you like to create?' with checkboxes for 'public static void main(String[] args)', 'Constructors from superclass', and 'Inherited abstract methods' (checked). It then asks 'Do you want to add comments? (Configure templates and default value [here](#))' with a checkbox for 'Generate comments'. At the bottom are a help icon, 'Finish', and 'Cancel' buttons.

New Java Class

Java Class

Create a new Java class.

Source folder: selenium-login-test/src/test/java Browse...

Package: com.example.tests Browse...

☐ Enclosing type: Browse...

Name: LoginTest

Modifiers: ☒ public ☐ package ☐ private ☐ protected  
☐ abstract ☐ final ☐ static

Superclass: java.lang.Object Browse...

Interfaces: Add...  
Remove

Which method stubs would you like to create?

☐ public static void main(String[] args)  
☐ Constructors from superclass  
☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))  
☐ Generate comments

? Finish Cancel

## Creating Java File

### JAVA CODE:

```
package com.example.tests;

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

```

import org.testng.Assert;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;

public class LoginTest {
    WebDriver driver;
    @BeforeMethod
    public void setUp() {
        // Initialize ChromeDriver
        driver = new ChromeDriver();
        driver.manage().window().maximize();
    }

    @Test
    public void testSuccessfulLogin() {
        // Navigate to login page (example using demo site)
        driver.get("https://www.saucedemo.com/");

        // Enter credentials
        WebElement username = driver.findElement(By.id("user-name"));
        WebElement password = driver.findElement(By.id("password"));
        WebElement loginButton = driver.findElement(By.id("login-button"));

        username.sendKeys("standard_user");
        password.sendKeys("secret_sauce");

        try {
            Thread.sleep(2000); // wait 2 seconds
        } catch (InterruptedException e) {
            e.printStackTrace();
        }

        loginButton.click();

        // Verify successful login by checking URL or page element
        Assert.assertTrue(driver.getCurrentUrl().contains("inventory.html"));
    }
}

```

## Pom.xml:

```

<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd

```

```

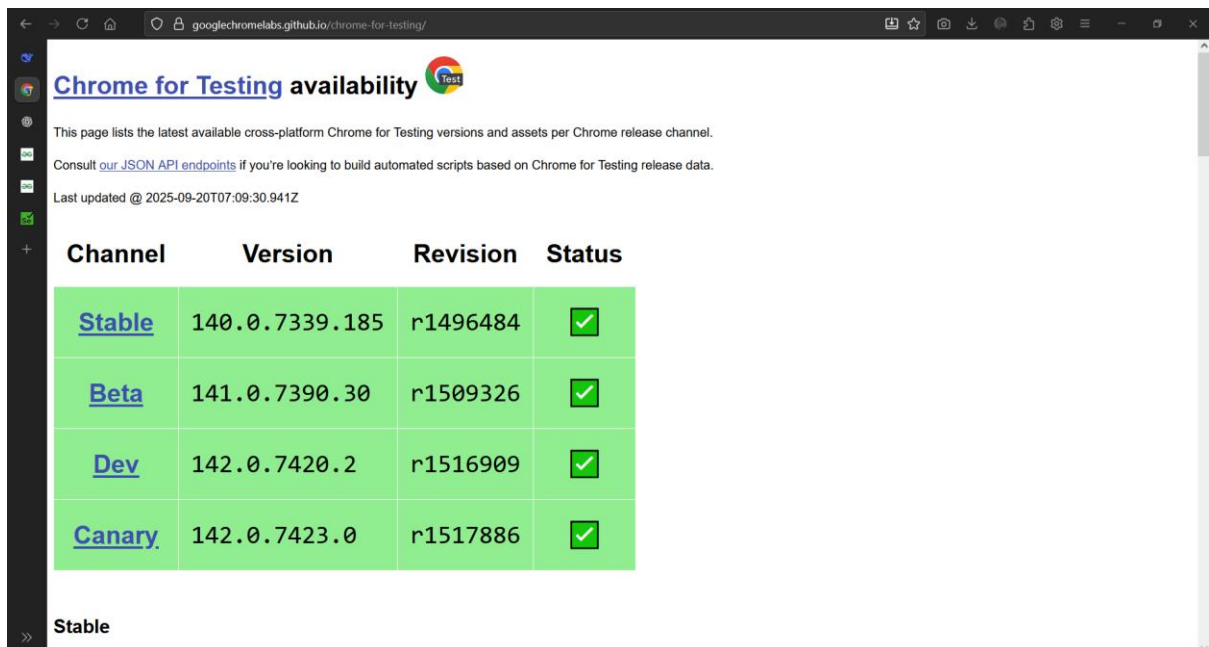
<properties>
  <maven.compiler.source>1.8</maven.compiler.source>
  <maven.compiler.target>1.8</maven.compiler.target>
  <selenium.version>4.15.0</selenium.version>
  <testng.version>7.8.0</testng.version>
</properties>

<dependencies>
  <!-- Selenium WebDriver (MAIN DEPENDENCY) -->
  <dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>${selenium.version}</version>
  </dependency>

  <!-- TestNG Testing Framework -->
  <dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>${testng.version}</version>
    <scope>test</scope>
  </dependency>

  <!-- Fix SLF4J Warning -->
  <dependency>
    <groupId>org.slf4j</groupId>
    <artifactId>slf4j-simple</artifactId>
    <version>2.0.9</version>
  </dependency>
</dependencies>
</project>

```



Chrome for Testing availability

This page lists the latest available cross-platform Chrome for Testing versions and assets per Chrome release channel.

Consult our [JSON API endpoints](#) if you're looking to build automated scripts based on Chrome for Testing release data.

Last updated @ 2025-09-20T07:09:30.941Z

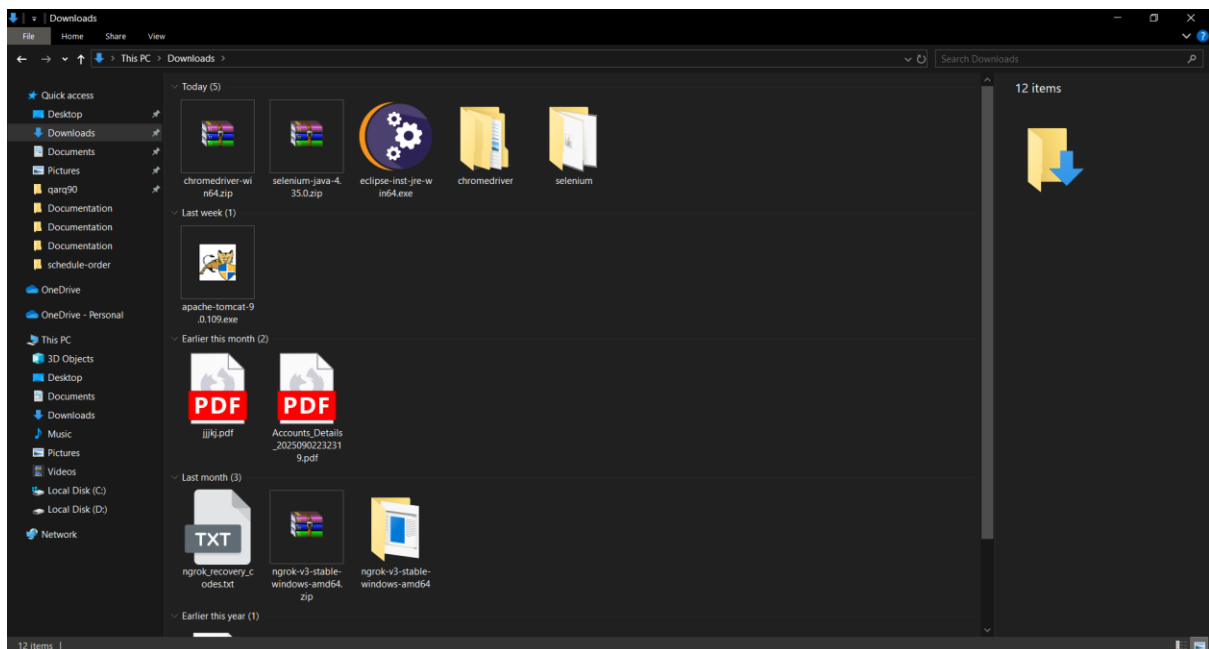
Channel	Version	Revision	Status
<a href="#">Stable</a>	140.0.7339.185	r1496484	✓
<a href="#">Beta</a>	141.0.7390.30	r1509326	✓
<a href="#">Dev</a>	142.0.7420.2	r1516909	✓
<a href="#">Canary</a>	142.0.7423.0	r1517886	✓

>> Stable

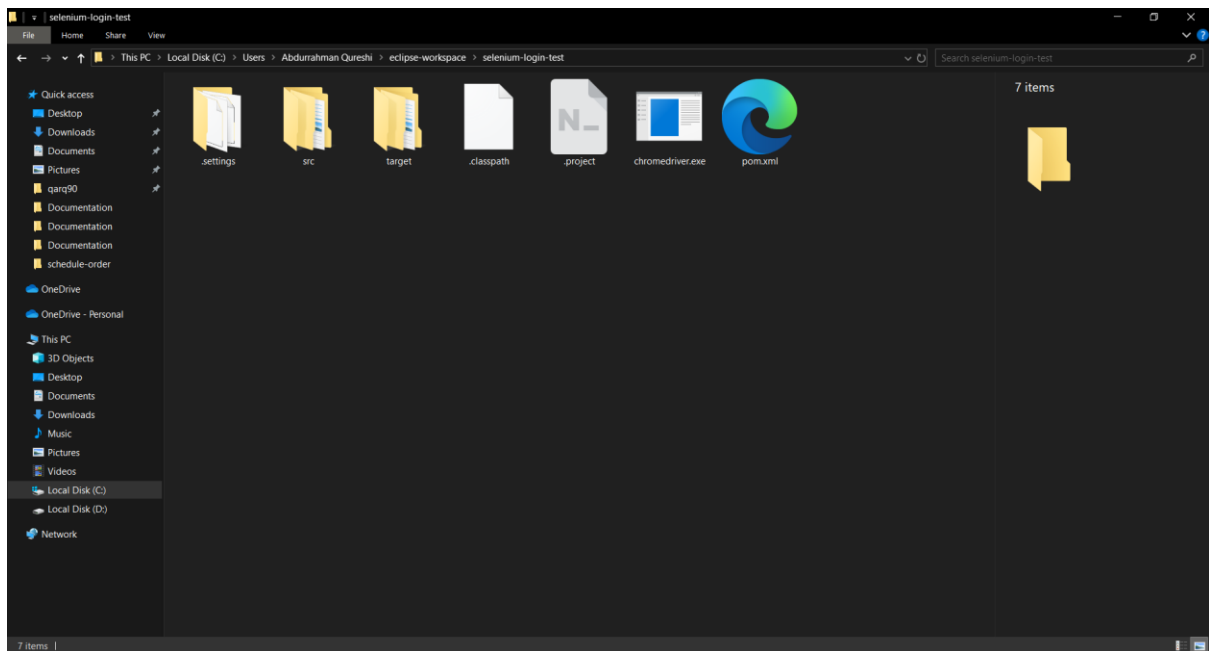
Downloading ChromeDriver zip

Binary	Platform	URL	HTTP status
chrome	linux64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/linux64/chrome-linux64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/linux64/chrome-linux64.zip</a>	200
chrome	mac-arm64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/mac-arm64/chrome-mac-arm64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/mac-arm64/chrome-mac-arm64.zip</a>	200
chrome	mac-x64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/mac-x64/chrome-mac-x64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/mac-x64/chrome-mac-x64.zip</a>	200
chrome	win32	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win32/chrome-win32.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win32/chrome-win32.zip</a>	200
chrome	win64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win64/chrome-win64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win64/chrome-win64.zip</a>	200
chromedriver	linux64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/linux64/chromedriver-linux64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/linux64/chromedriver-linux64.zip</a>	200
chromedriver	mac-arm64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/mac-arm64/chromedriver-mac-arm64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/mac-arm64/chromedriver-mac-arm64.zip</a>	200
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chromedriver	win32	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win32/chromedriver-win32.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win32/chromedriver-win32.zip</a>	200
chromedriver	win64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win64/chromedriver-win64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win64/chromedriver-win64.zip</a>	200
chrome-headless-shell	linux64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/linux64/chrome-headless-shell-linux64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/linux64/chrome-headless-shell-linux64.zip</a>	200
chrome-headless-shell	mac-arm64	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/mac-arm64/chrome-headless-shell-mac-arm64.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/mac-arm64/chrome-headless-shell-mac-arm64.zip</a>	200
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chrome-headless-shell	win32	<a href="https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win32/chrome-headless-shell-win32.zip">https://storage.googleapis.com/chrome-for-testing-public/140.0.7339.185/win32/chrome-headless-shell-win32.zip</a>	200

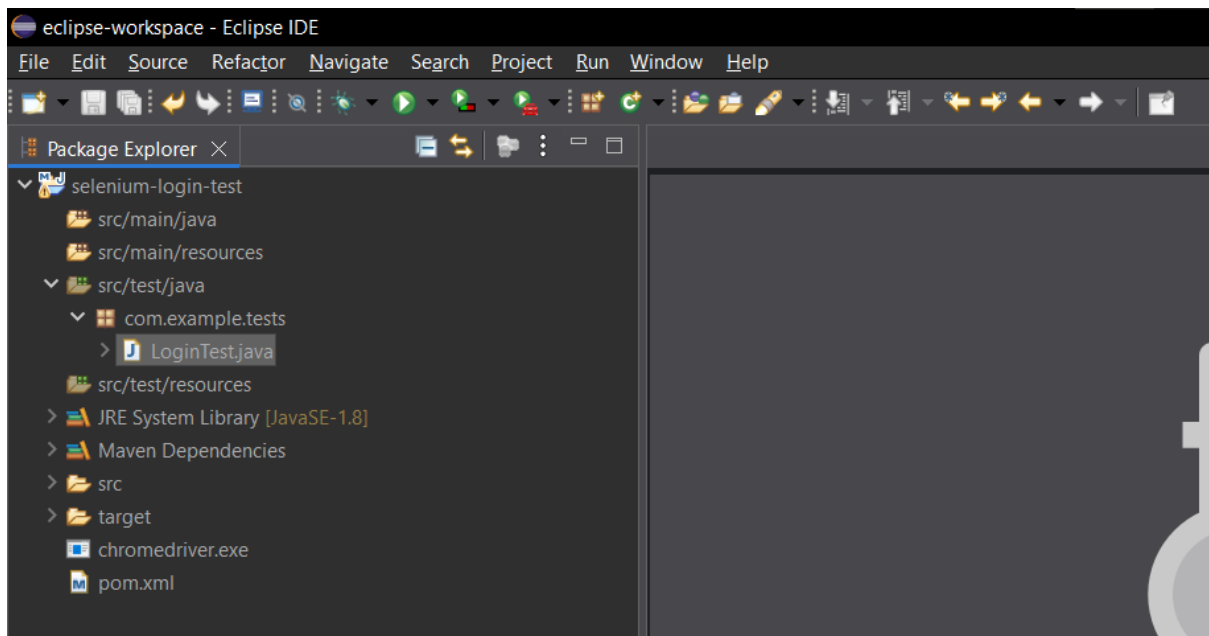
Link for Win64 ChromeDriver



Extracted Win64 ChromeDriver

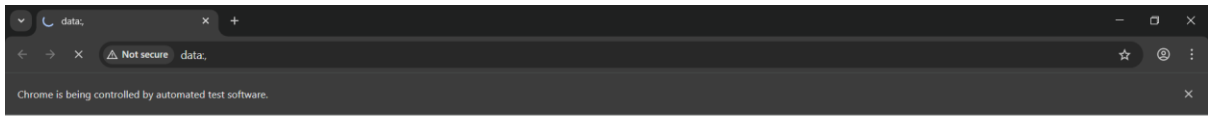


Copied and Pasted ChromeDriver.exe in the Root of the Project

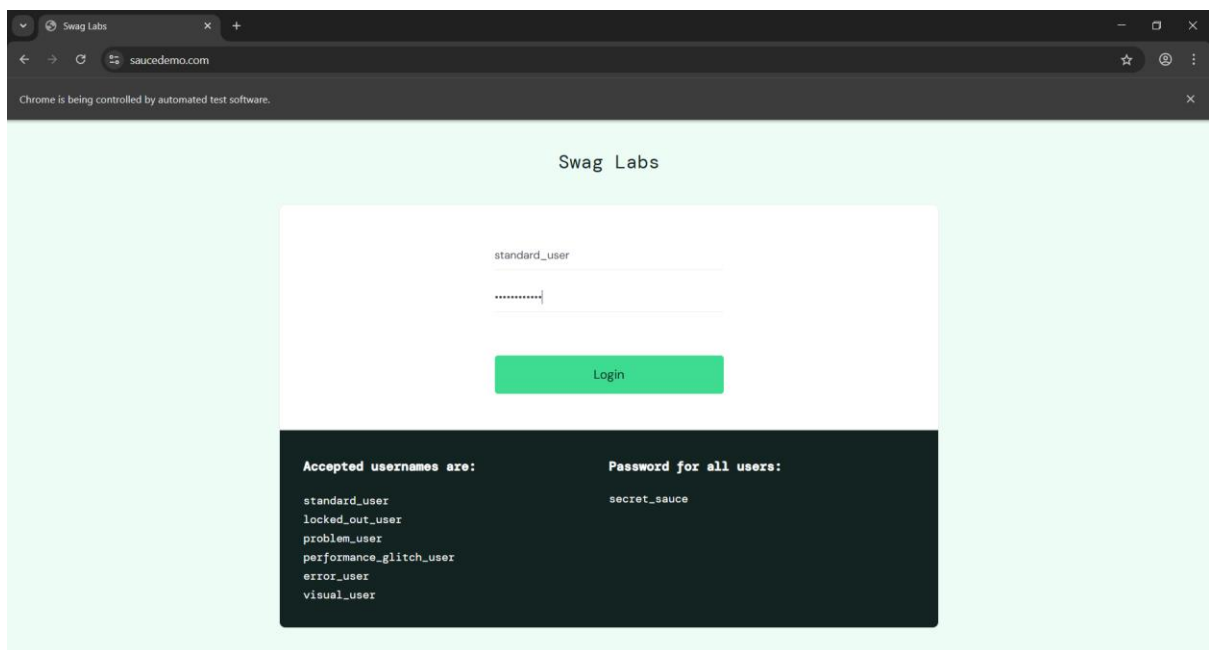


Final Project Structure

## OUTPUT:

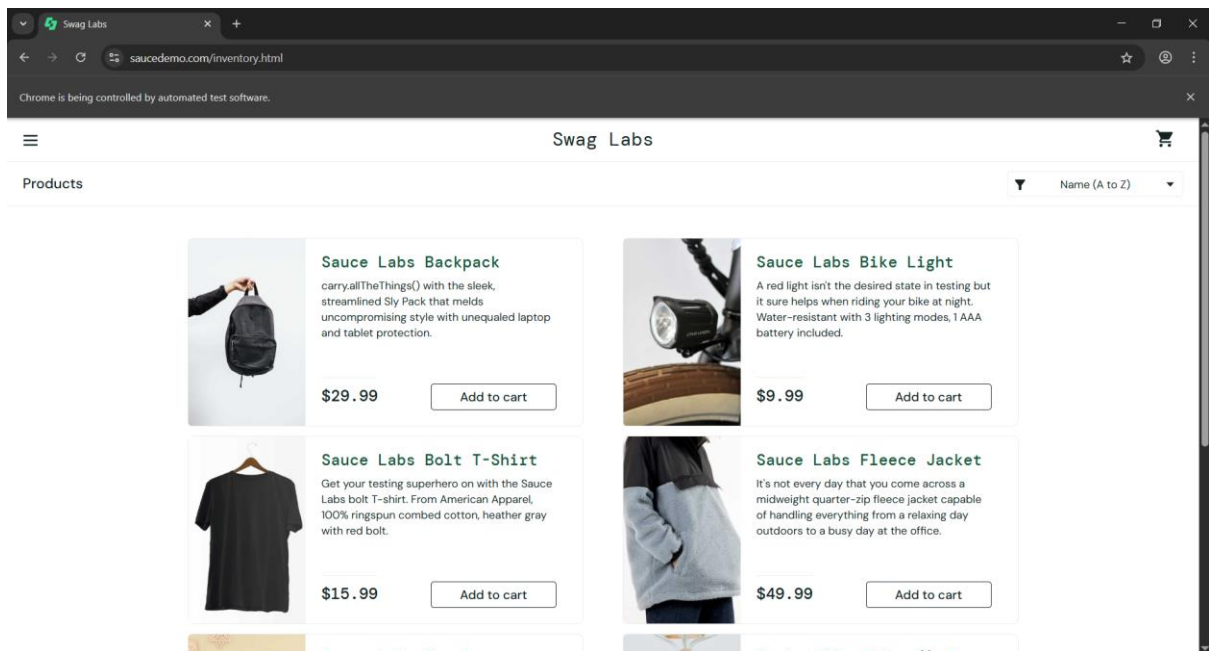


## Opening Chrome

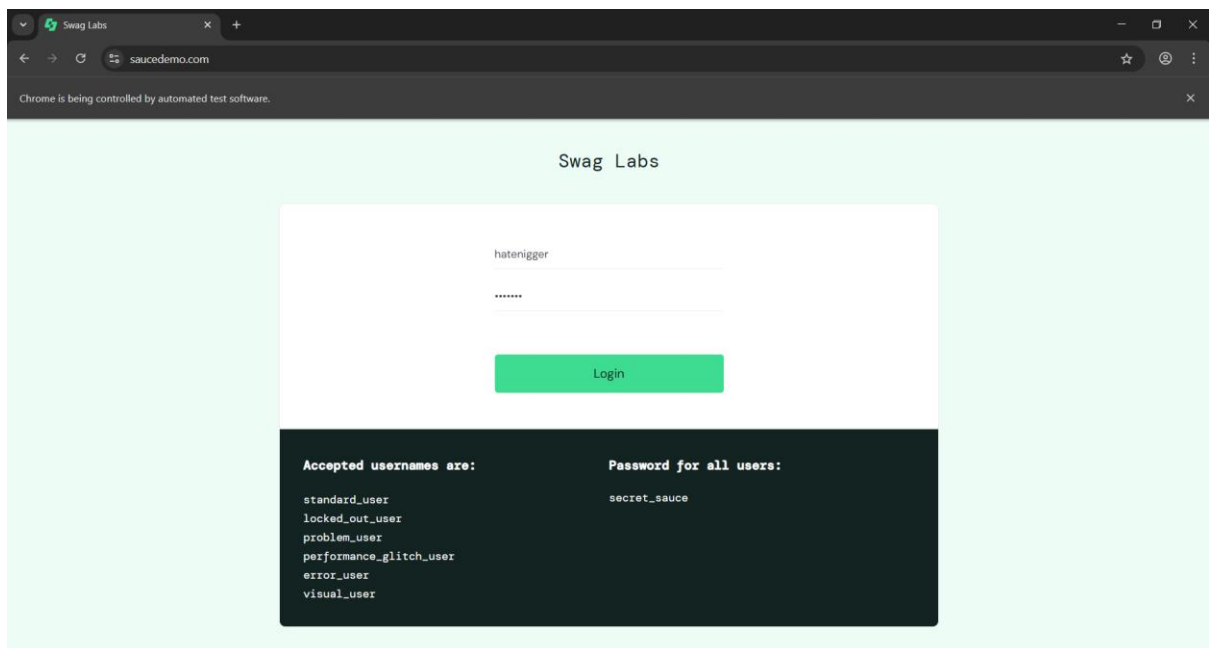


## Website Opened (Valid Credentials)

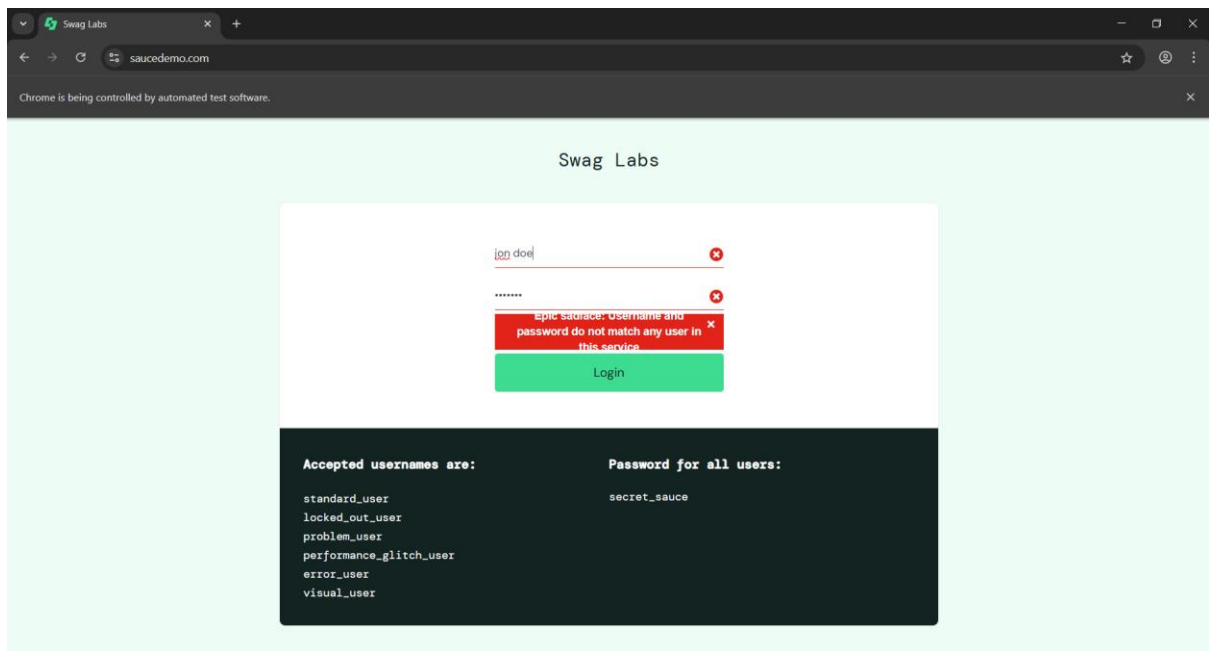




Login Successful due to valid Credentials



Website Opened (Invalid Credentials)



Login Failed due to Invalid Credentials