

# Phase-2 Practice Project-JUnit

Repository: [https://github.com/Joshnitha/Phase2\\_Practice-Projects/](https://github.com/Joshnitha/Phase2_Practice-Projects/)

## Browser Automation Testing with Selenium with JUnit

### Description:

Perform Unit Testing for **Social Media Website: Facebook** and **Search Engine: Google**

### **Background of the problem statement:**

Rainbow Software Pvt. Ltd. Hired you as a Test Engineer. They need to deploy you on a project for which you're now asked to perform a task for browser automation testing for Facebook authentication and the Google search engine with JUnit. Upon successful completion of the task, you will be working on an application for unit testing.

### **You must use the following:**

- Eclipse IDE
- Java Development Kit (Version 8)
- Selenium

### **Following requirements should be met:**

- Some of the source code should be tracked on GitHub repositories. You need to document the tracked files that are ignored during the final push to the GitHub repository.
- The submission of your GitHub repository link is mandatory. In order to track your task, you need to share the link of the repository in the document.
- The step-by-step process involved in completing this task should be documented.

### Source Code:

```
package lessson4;

import org.junit.jupiter.api.AfterAll;
import org.junit.jupiter.api.BeforeAll;
import org.junit.jupiter.api.DisplayName;
import org.junit.jupiter.api.TestInstance;
import org.junit.jupiter.params.ParameterizedTest;
import org.junit.jupiter.params.provider.CsvSource;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

@TestInstance(TestInstance.Lifecycle.PER_CLASS)
public class EndProject4 {
```

WebDriver driver;

```
    @BeforeAll
    public void startbrowser()
    {
        driver = new ChromeDriver();

        driver.manage().window().maximize();

        driver.get("https://www.facebook.com/");
    }

    @DisplayName("login")
    @ParameterizedTest(name = "CSV source {arguments}")
    @CsvSource({
        "ravi , 234"
    })
    public void Testmethod(String username, String pwd)
    {
        driver.findElement(By.cssSelector("input#email")).sendKeys(username);

        driver.findElement(By.cssSelector("input[name='pass']")).sendKeys(pwd);

        System.out.println(username+" : "+pwd);

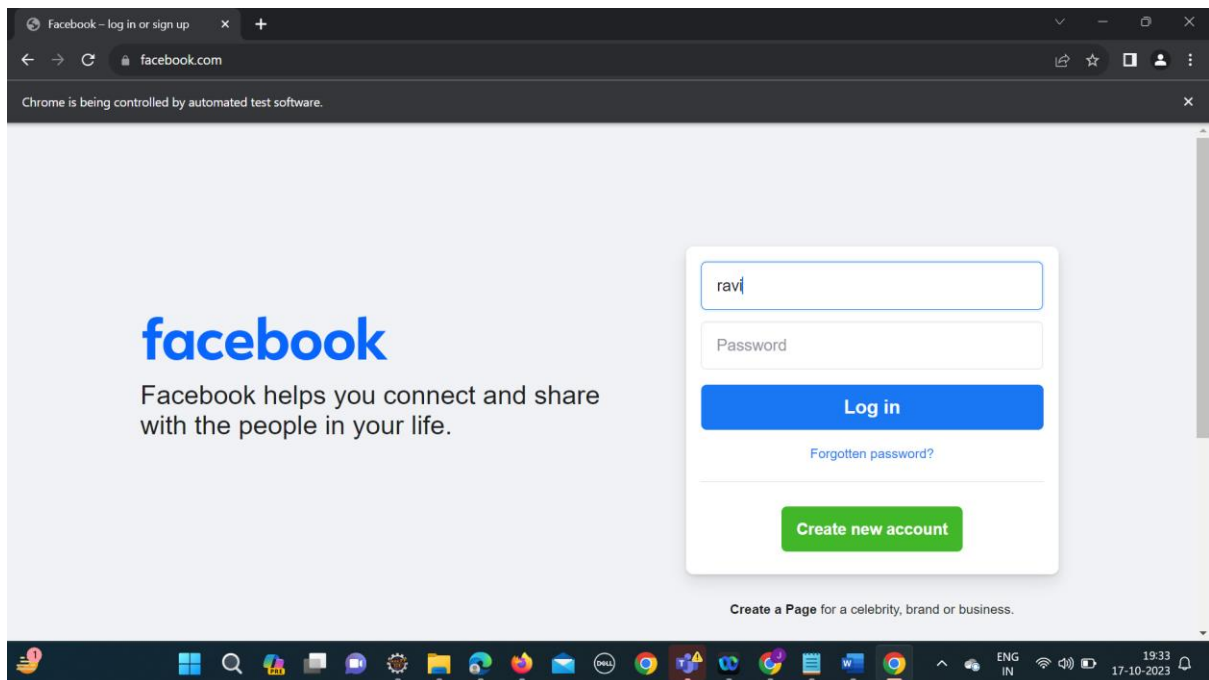
    }
    @AfterAll
    public void closebrowser()
    {
        driver.close();
    }
}
```

### **ScreenShots:**

**Program:**

```
eclipse-workspace - ATE-Phase2-Junit/src/test/java/lesson4/EndProject4.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
1 package lesson4;
2
3 import org.junit.jupiter.api.AfterAll;
12
13 @TestInstance(TestInstance.Lifecycle.PER_CLASS)
14 public class EndProject4 {
15
16     WebDriver driver;
17
18     @BeforeAll
19     public void startbrowser()
20     {
21         driver = new ChromeDriver();
22         driver.manage().window().maximize();
23         driver.get("https://www.facebook.com/");
24     }
25
26
27     @DisplayName("login")
28     @ParameterizedTest(name = "CSV source {arguments}")
29     @CsvSource({
30         "ravi", 234"
31     })
32     public void Testmethod(String username, String pwd)
33     {
34         driver.findElement(By.cssSelector("input#email")).sendKeys(username);
35         driver.findElement(By.cssSelector("input[name='pass']")).sendKeys(pwd);
36         System.out.println(username+" : "+pwd);
37     }
38
39
40
41
42
43
44 @AfterAll
```

Output:



The screenshot shows the Eclipse IDE's console window. The title bar reads "eclipse-workspace - ATE-Phase2-Junit/src/test/java/lesson4/EndProject4.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains icons for various IDE functions. The console output is as follows:

```
<terminated> EndProject4 (1) [JUnit] C:\Users\DELL\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.6.v20230204-1729\jre\bin\javaw.exe (17-Oct-2023, 7:33:20 pm) [pid: 17320]  
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.  
Oct 17, 2023 7:33:23 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch  
WARNING: Unable to find an exact match for CDP version 110, so returning the closest version found: 115  
ravi : 234
```

The Windows taskbar at the bottom shows the time as 19:34 on 17-10-2023.

The screenshot shows the Eclipse IDE's JUnit test runner window. The title bar reads "eclipse-workspace - ATE-Phase2-Junit/src/test/java/lesson4/EndProject4.java - Eclipse IDE". The menu bar is the same as the first screenshot. The toolbar includes icons for test-related functions. The test results are as follows:

```
Finished after 4.866 seconds  
Runs: 1/1      Errors: 0      Failures: 0  
EndProject4 [Runner: JUnit 5] (0.144 s)  
  login (0.144 s)  
    CSV source ravi, 234 (0.144 s)
```

A green progress bar at the top indicates a successful run. The Windows taskbar at the bottom shows the time as 19:34 on 17-10-2023.