

## 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">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.demo</groupId>
  <artifactId>LoginBDD</artifactId>
  <version>1.0-SNAPSHOT</version>

  <properties>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
  </properties>

  <dependencies>
    <dependency>
      <groupId>io.cucumber</groupId>
      <artifactId>cucumber-java</artifactId>
      <version>7.11.0</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>io.cucumber</groupId>
      <artifactId>cucumber-junit</artifactId>
      <version>7.11.0</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
```

```

    <version>4.8.3</version>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.13.2</version>
    <scope>test</scope>
  </dependency>
</dependencies>

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.0.0-M7</version>
      <configuration>
        <includes>
          <include>**/TestRunner.java</include>
        </includes>
      </configuration>
    </plugin>
  </plugins>
</build>
</project>

```

## **Login.feature**

Feature: User Login

Scenario: Successful login with valid credentials

Given I launch the login page

When I enter valid credentials

And I click login

Then I should see a secure area message

Scenario: Unsuccessful login with invalid credentials

Given I launch the login page

When I enter invalid credentials

And I click login

Then I should see an error message

### **Hooks.java**

```
package stepdefs;
```

```
import io.cucumber.java.*;
```

```
import org.openqa.selenium.*;
```

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

```
public class Hooks {
```

```
    public static WebDriver driver;
```

```
    @Before(order = 0)
```

```
    public void logStart() {
```

```
        System.out.println("script start execution when execution start");
```

```
    }
```

```
    @Before(order = 1)
```

```
    public void setup() {
```

```
        System.setProperty(
```

```
            "webdriver.chrome.driver",
```

```
            "C:/tools/chromedriver/chromedriver.exe"
```

```
        );
```

```
        driver = new ChromeDriver();
```

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

```
    }
```

```
    @After(order = 1)
```

```

public void teardown() {
    if (driver != null) {
        driver.quit();
    }
}

@After(order = 0)
public void logEnd() {
    System.out.println("script End execution when execution End");
}
}

```

### **LoginSteps.java**

```

package stepdefs;

import io.cucumber.java.en.*;
import org.junit.Assert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;

public class LoginSteps {
    // reuse the driver from Hooks
    private final WebDriver driver = Hooks.driver;

    @Given("I launch the login page")
    public void launchLoginPage() {
        driver.get("https://the-internet.herokuapp.com/login");
    }

    @When("I enter valid credentials")
    public void validCredentials() {
        driver.findElement(By.id("username")).sendKeys("tomsmith");
        driver.findElement(By.id("password")).sendKeys("SuperSecretPassword!");
    }
}

```

```
}
```

```
@When("I enter invalid credentials")
```

```
public void invalidCredentials() {
```

```
    driver.findElement(By.id("username")).sendKeys("baduser");
```

```
    driver.findElement(By.id("password")).sendKeys("badpass");
```

```
}
```

```
@And("I click login")
```

```
public void clickLogin() {
```

```
    driver.findElement(By.cssSelector("button[type='submit']")).click();
```

```
}
```

```
@Then("I should see a secure area message")
```

```
public void secureAreaMessage() {
```

```
    String text = driver.findElement(By.id("flash")).getText();
```

```
    Assert.assertTrue(text.contains("You logged into a secure area!"));
```

```
}
```

```
@Then("I should see an error message")
```

```
public void errorMessage() {
```

```
    String text = driver.findElement(By.id("flash")).getText();
```

```
    Assert.assertTrue(text.contains("Your username is invalid!"));
```

```
}
```

```
}
```

### **TestRunner.java**

```
package testrunner;
```

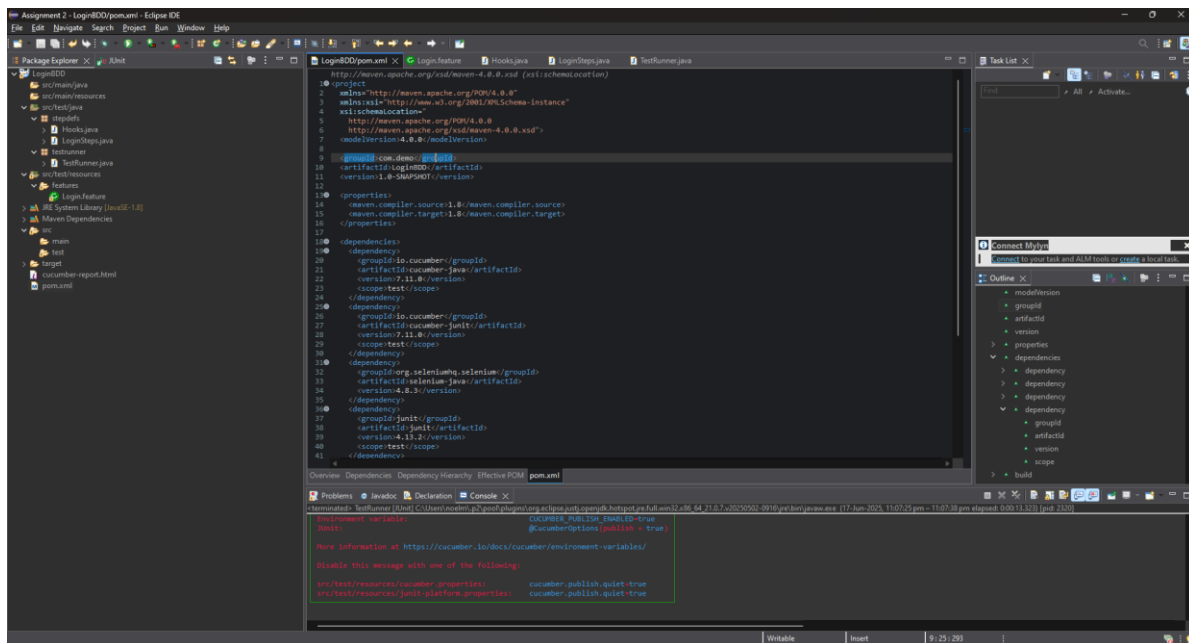
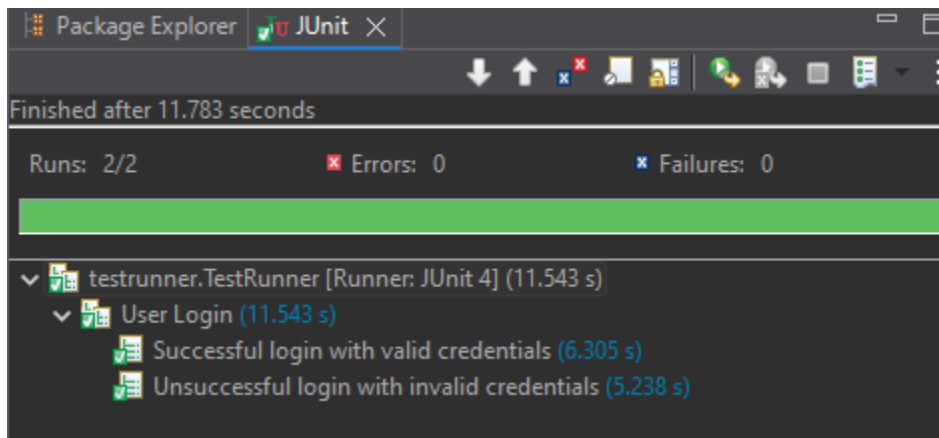
```
import io.cucumber.junit.*;
```

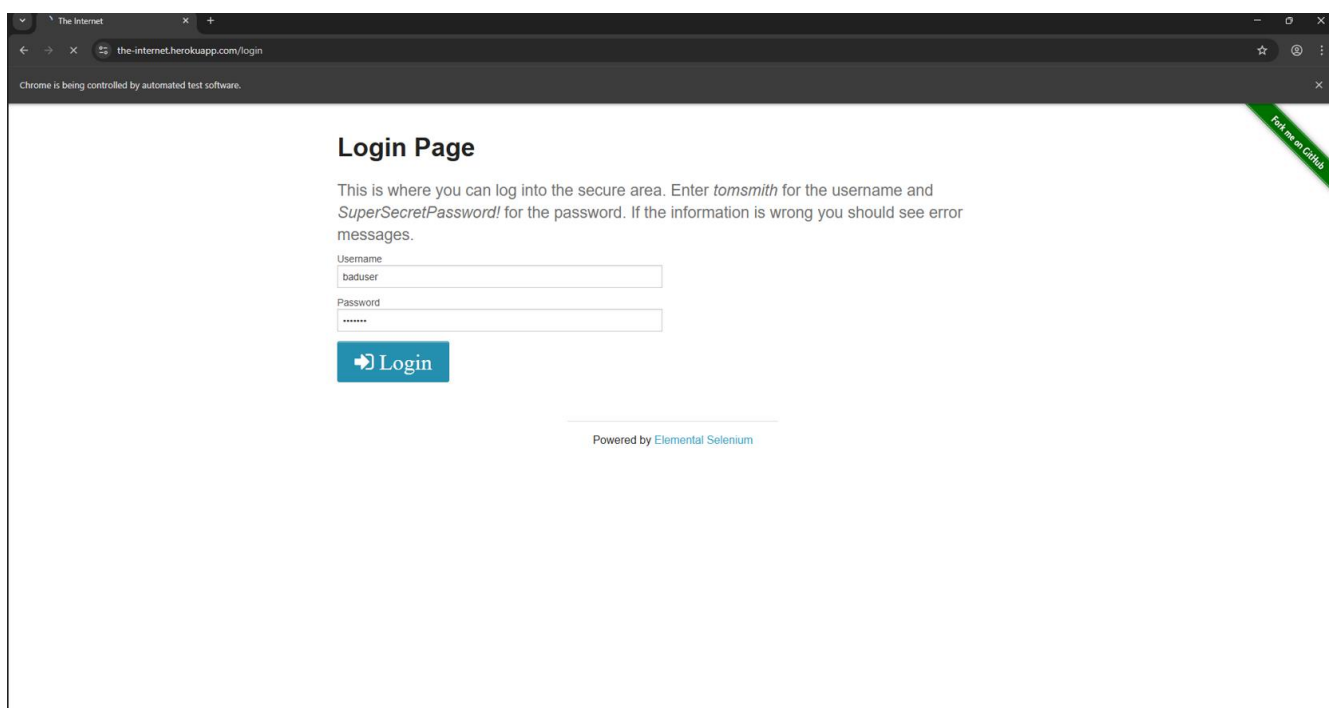
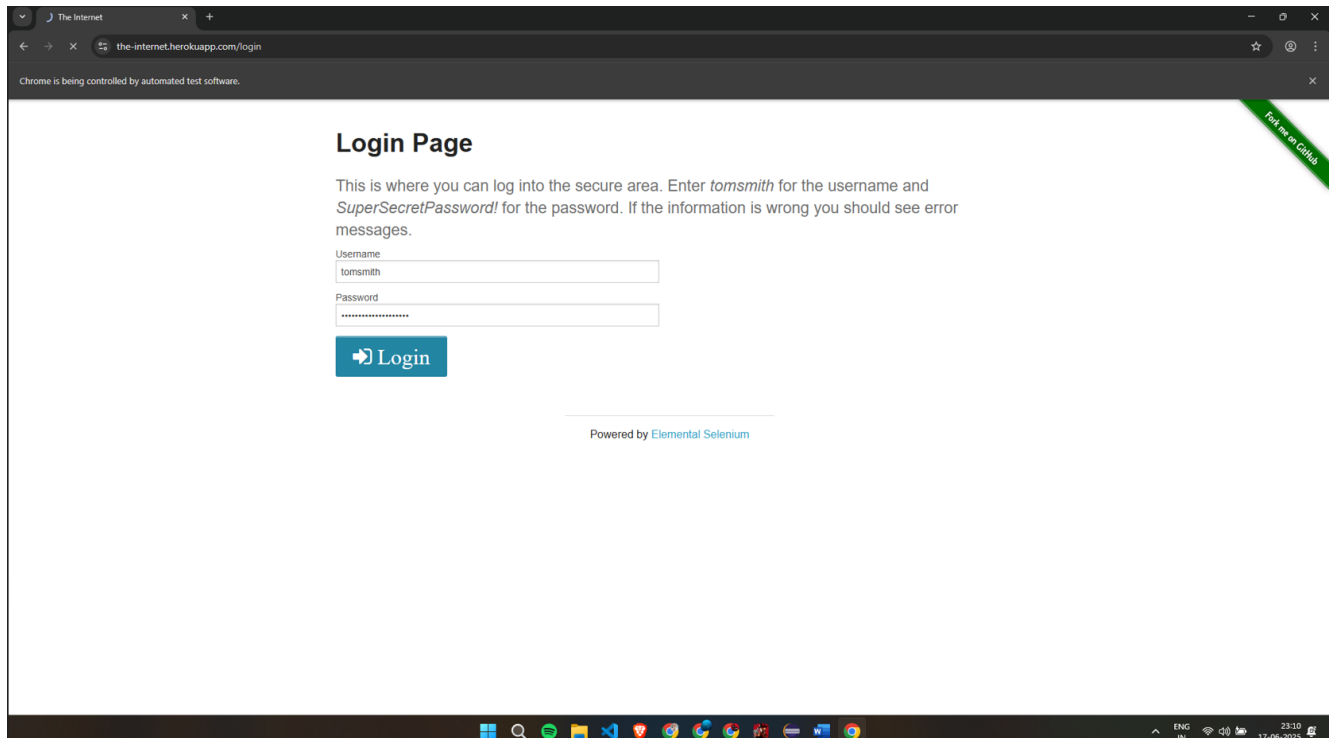
```
import org.junit.runner.RunWith;
```

```
@RunWith(Cucumber.class)
```

```
@CucumberOptions(  
    features = "src/test/resources/features",  
    glue     = "stepdefs",  
    plugin   = {"pretty", "html:target/cucumber-report.html"}  
)  
  
public class TestRunner { }
```

## Output Screenshots





```
Problems  Javadoc  Declaration  Console  x
kterminated> TestRunner [JUnit] C:\Users\Noelm\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.21.0.7\j20250502-0916\jre\bin\javaw.exe (17-Jun-2025, 11:10:08 pm - 11:10:21 pm elapsed: 0:00:13.251) [pid: 3432]

Scenario: Unsuccessful login with invalid credentials # src/test/resources/features/Login.feature:9
script start execution when execution start
Starting ChromeDriver 137.0.7151.70 (dfa4dc56b2abb56eb2a14cad006ea5e68c6d0d5de-refs/branch-heads/7151@#1875)) on port 39715
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully on port 39715.
Jun 17, 2025 11:10:16 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 137
Jun 17, 2025 11:10:16 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$3
WARNING: Unable to find version of CDP to use for . You may need to include a dependency on a specific version of the CDP using something similar to 'org.seleniumhq.selenium:selenium-devtools-v86:4.8.3'
Given I launch the login page # stepdefs.LoginSteps.launchLoginPage()
When I enter invalid credentials # stepdefs.LoginSteps.invalidCredentials()
And I click login # stepdefs.LoginSteps.clickLogin()
Then I should see an error message # stepdefs.LoginSteps.errorMessage()
3I Morg.openqa.selenium.NoSuchElementException: no such element: Unable to locate element: {"method":"css selector","selector":"#flash"}
(Session info: chrome=137.0.7151.104)
For documentation on this error, please visit: https://selenium.dev/exceptions/#no_such_element
Build info: version: '4.8.3', revision: 'ese76298c3'
System info: os.name: 'Windows 11', os.arch: 'amd64', os.version: '10.0', java.version: '21.0.7'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Command: [2a07f485925101448f00169e4677de47, findElement (using=id, value=flash)]
Capabilities: {acceptInsecureCerts: false, browserName: chrome, browserVersion: 137.0.7151.104, chrome: {chromedriverVersion: 137.0.7151.70 (dfa4dc56b2ab..., userDataDir: C:\Users\Noelm\AppData\Loca...),
Session ID: 2a07f485925101448f00169e4677de47
at java.base/jdk.internal.reflect.DirectConstructorHandleAccessor.newInstance(DirectConstructorHandleAccessor.java:62)
at java.base/java.lang.reflect.Constructor.newInstanceWithCaller(Constructor.java:502)
at java.base/java.lang.reflect.Constructor.newInstance(Constructor.java:486)
at org.openqa.selenium.remote.codec.w3c.W3CHttpResponseCodec.createException(W3CHttpResponseCodec.java:200)
at org.openqa.selenium.remote.codec.w3c.W3CHttpResponseCodec.decode(W3CHttpResponseCodec.java:133)
at org.openqa.selenium.remote.codec.w3c.W3CHttpResponseCodec.decode(W3CHttpResponseCodec.java:53)
at org.openqa.selenium.remote.HttpCommandExecutor.execute(HttpCommandExecutor.java:193)
at org.openqa.selenium.remote.service.DriverCommandExecutor.invokeExecute(DriverCommandExecutor.java:183)
at org.openqa.selenium.remote.service.DriverCommandExecutor.execute(DriverCommandExecutor.java:158)
at org.openqa.selenium.remote.RemoteWebDriver.execute(RemoteWebDriver.java:543)
at org.openqa.selenium.remote.ElementLocation$ElementFinder$2.findElement(ElementLocation.java:162)
at org.openqa.selenium.remote.ElementLocation.findElement(ElementLocation.java:60)
at org.openqa.selenium.remote.RemoteWebDriver.findElement(RemoteWebDriver.java:352)
at org.openqa.selenium.remote.RemoteWebDriver.findElement(RemoteWebDriver.java:344)
at stepdefs.LoginSteps.errorMessage(LoginSteps.java:42)
at *I should see an error message(F11s:///C:/Users/noelm/Downloads/I89%20Consulting/TECHADENY/Phase%202/4.%20Cucumber%20RDD%20hade%20Easy%20+%20Automation%20Framework%20Design/Assignment%202/Lo

script End execution when execution End

Share your Cucumber Report with your team at https://reports.cucumber.io
Activate publishing with one of the following:

src/test/resources/cucumber.properties: cucumber.publish.enabled=true
src/test/resources/junit-platform.properties: cucumber.publish.enabled=true
Environment variable: CUCUMBER_PUBLISH_ENABLED=true
JUnit: @CucumberOptions(publish = true)

More information at https://cucumber.io/docs/cucumber/environment-variables/
```