

# Swag Labs – Manual & Automated Testing

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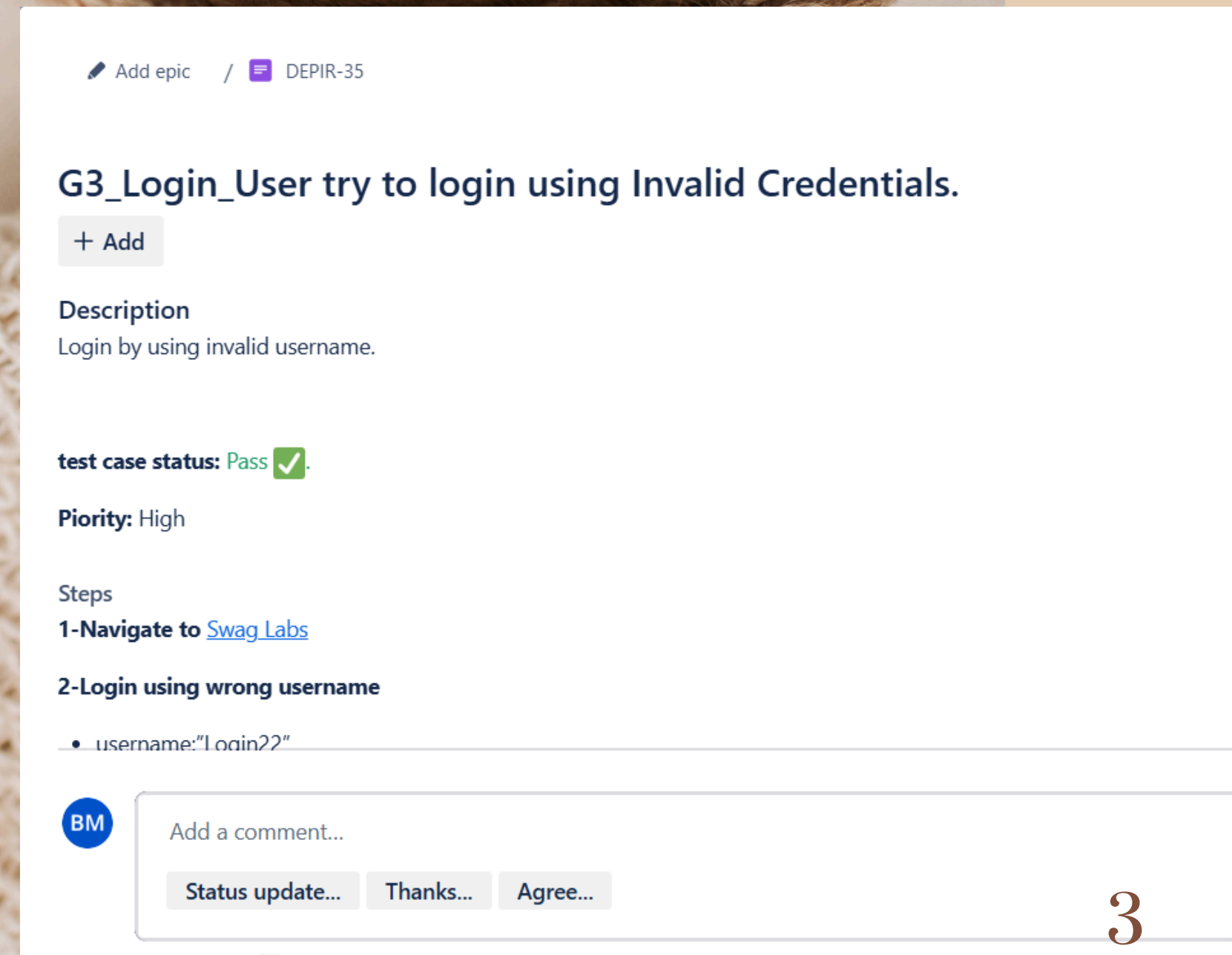
# Project Scope:

- Objective: Validate Functionality of Swag Labs website through Manual and Automated Testing.
- Website Under Test: <https://www.saucedemo.com/v1/index.html>
- Tools Used: Jira, GitHub, Selenium4, Java, TestNG, Maven, Allure



# Manual Testing Overview

-  Test Case Development:
  - Detailed test cases for login, cart, checkout, etc.
- Linked to user stories in Jira
-  Bug Reporting:
  - Logged bugs with screenshots/videos
  - Severity levels highlighted
  - Traceability with test cases

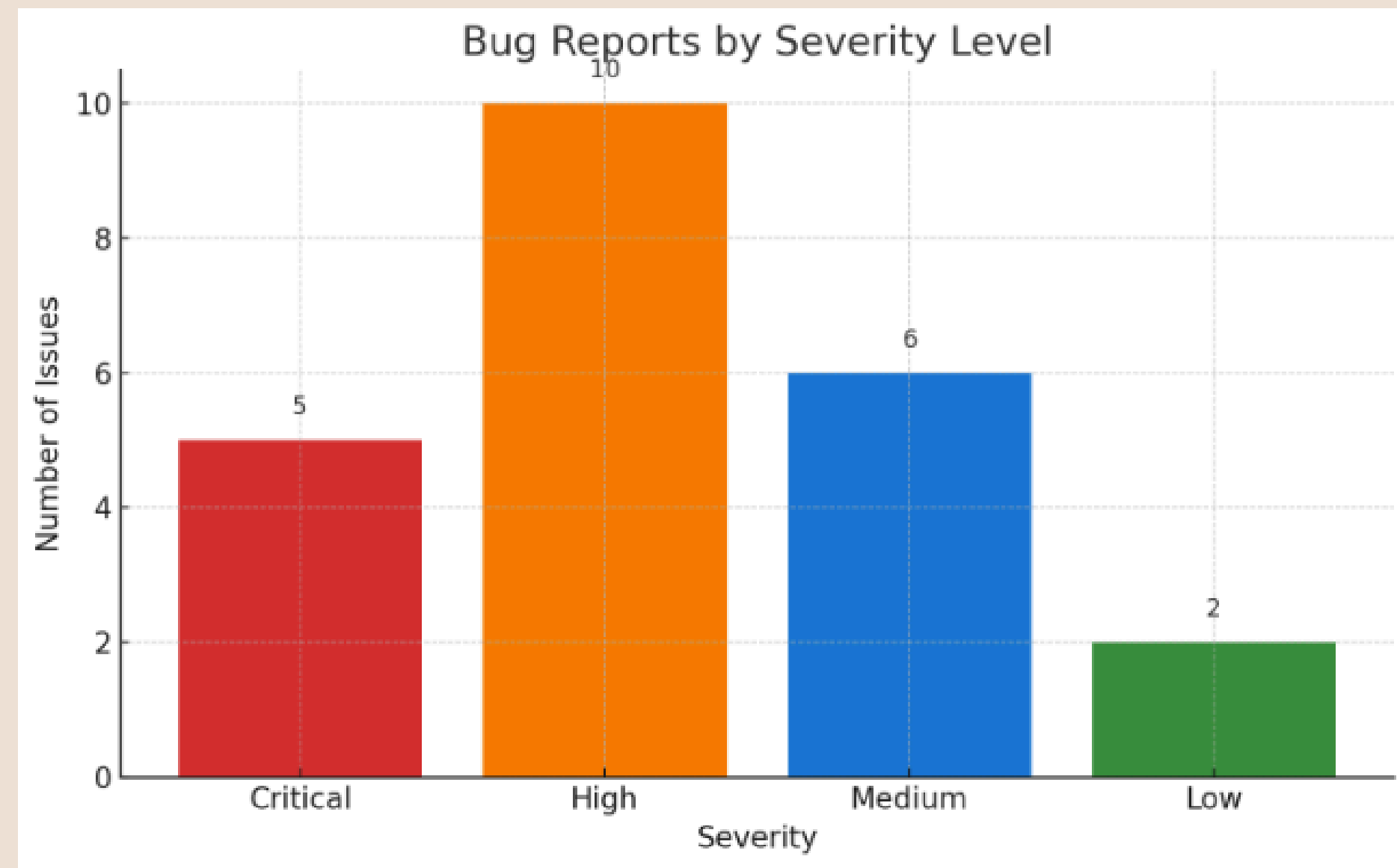
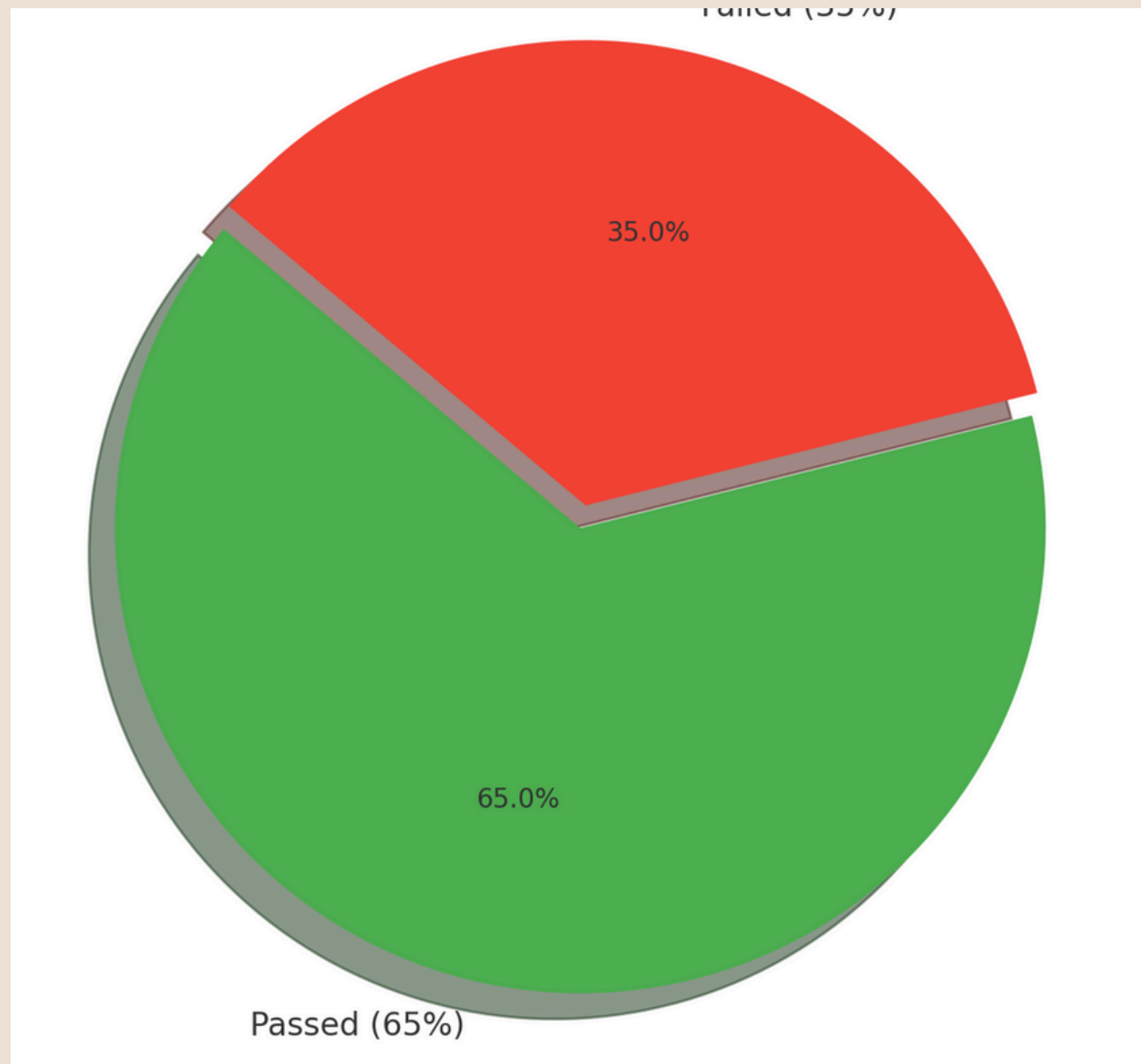


The screenshot shows a Jira issue page. At the top, there's a header with 'Add epic' and 'DEPIR-35'. The issue title is 'G3\_Login\_User try to login using Invalid Credentials.' Below the title is a '+ Add' button. The 'Description' section says 'Login by using invalid username.' The 'test case status' is 'Pass' with a green checkmark. The 'Priority' is 'High'. The 'Steps' section lists two steps: '1-Navigate to [Swag Labs](#)' and '2-Login using wrong username'. Below the steps, there's a list of comments, with the first one being 'username: "Login22"'. At the bottom, there's a comment box with a blue circle containing 'BM' and the text 'Add a comment...'. Below the comment box are three buttons: 'Status update...', 'Thanks...', and 'Agree...'.



# Manual Testing Metrics:

- Total Test Cases : 43
- Issues: 23(Bugs)



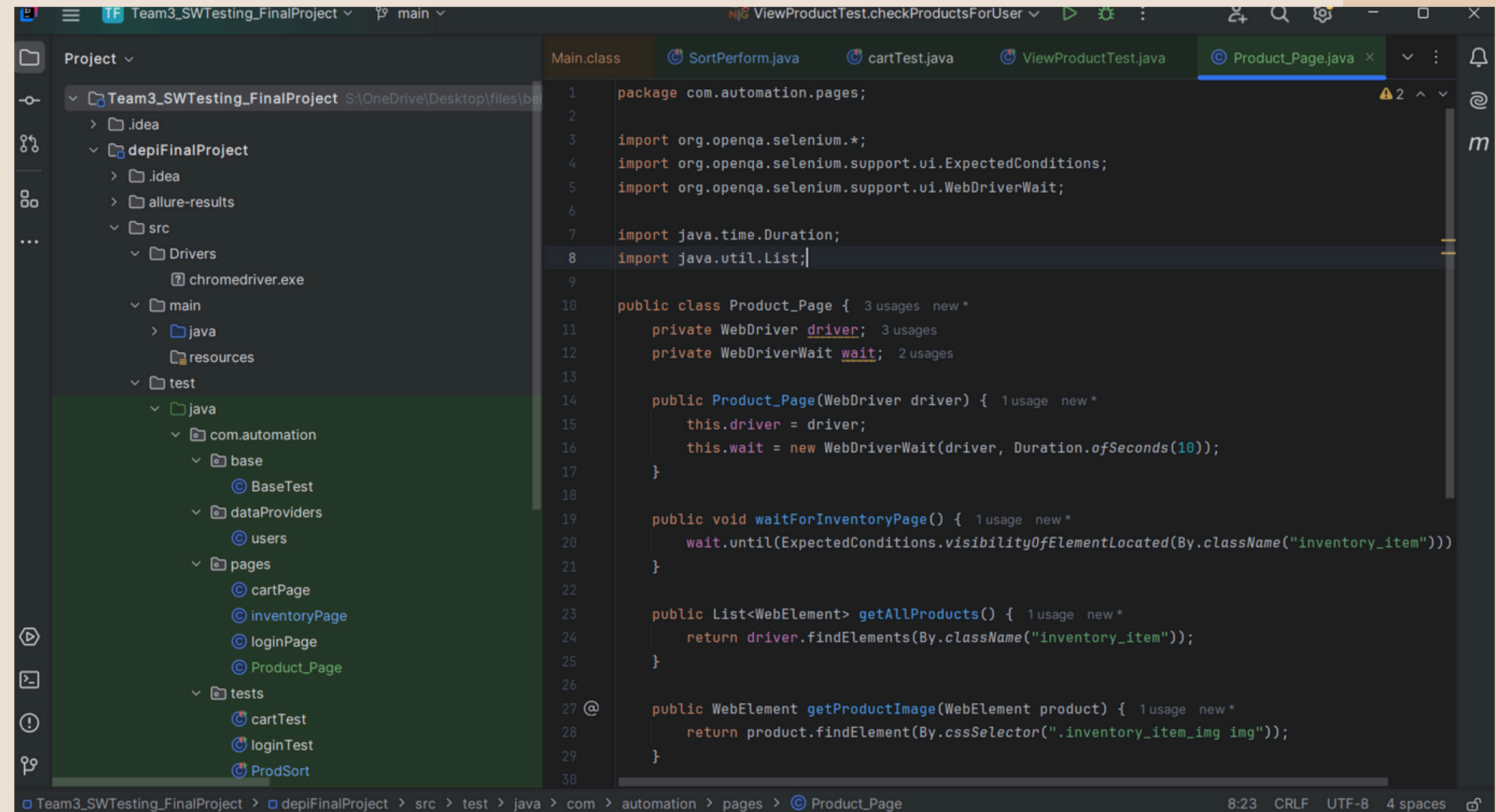
# Test Automation Framework:

## Tech Stack:

- Selenium4 + Java
- TestNG
- Maven
- Allure for reporting

## Features Automated:

- Login
- Add/Remove from Cart
- Checkout
- Logout
- View Products
- Sort&Search Products



The screenshot shows an IDE window with a project named 'Team3\_SWTesting\_FinalProject'. The project structure on the left includes folders for '.idea', 'depiFinalProject', 'src', 'test', and 'java'. The 'test' folder contains a 'java' sub-folder with a 'com' package, which includes 'automation', 'pages', and 'tests' sub-packages. The 'automation' package contains 'base' and 'dataProviders' sub-packages. The 'pages' package contains 'cartPage', 'inventoryPage', 'loginPage', and 'Product\_Page'. The 'tests' package contains 'cartTest', 'loginTest', and 'ProdSort'. The main editor displays the 'Product\_Page.java' file, which contains the following code:

```
1 package com.automation.pages;
2
3 import org.openqa.selenium.*;
4 import org.openqa.selenium.support.ui.ExpectedConditions;
5 import org.openqa.selenium.support.ui.WebDriverWait;
6
7 import java.time.Duration;
8 import java.util.List;
9
10 public class Product_Page { 3 usages new *
11     private WebDriver driver; 3 usages
12     private WebDriverWait wait; 2 usages
13
14     public Product_Page(WebDriver driver) { 1 usage new *
15         this.driver = driver;
16         this.wait = new WebDriverWait(driver, Duration.ofSeconds(10));
17     }
18
19     public void waitForInventoryPage() { 1 usage new *
20         wait.until(ExpectedConditions.visibilityOfElementLocated(By.className("inventory_item")))
21     }
22
23     public List<WebElement> getAllProducts() { 1 usage new *
24         return driver.findElements(By.className("inventory_item"));
25     }
26
27     public WebElement getProductImage(WebElement product) { 1 usage new *
28         return product.findElement(By.cssSelector(".inventory_item_img img"));
29     }
30 }
```

# Challenges & Lessons Learned

- Environment setup issues
- Synchronization & timing challenges
- Improved understanding of POM & TestNG
- Importance of traceability in test documentation

## Swag Labs - Login Functionality

+ Add

### Description

As a user, I want to log in to Swag Labs so that I can access and purchase products.

### Acceptance Criteria

✓ The system should allow valid users to log in. ✓ Invalid credentials should display an error. ✓ Users should be redirected to the product catalog after login.

# Conclusion & Next Steps:

- Suggestions for website improvement

## Repository Links:

- GitHub:

[https://github.com/Nourhanayaman/Team3\\_SWTesting\\_FinalProject](https://github.com/Nourhanayaman/Team3_SWTesting_FinalProject)

- Jira Exports:

<https://depir2finalproject.atlassian.net/jira/software/projects/DEPIR/boards/4?assignee=712020%3Ab5d884c1-ab9d-4de0-9ffb-8e68eaf568d3%2C712020%3A6307ce44-59a8-4e80-8afc-d3e5dddd9845%2C712020%3Aea7fbc3b-b191-4aa3-be54-51ea862e134e%2C712020%3A80f1bfba-9b4e-4fc7-abaa-efb24b3321c8%2C712020%3A349dfae4-fa42-448a-a397-48f8281792b3%2Cunassigned%2C712020%3Ac53a55dc-8a29-4994-8ad5-1de570892f1b&label=GROUP3>

Thank you  
for listening!

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