

Swag Labs Test Plan

1. Introduction

This project is the final graduation submission for the Digital Egypt Pioneers initiative provided by the Egyptian Ministry of Communications and Information Technology.

The aim is to make sure that all the core user stories work as expected, all the defects has been identified and documented, and the application meets the specified requirements.

2. Scope

2.1 In scope

Functional Testing: Testing all 6 core user stories (Login Page, Products Page, Cart Page, Checkout: Your Information Page, Checkout: Overview Page, Checkout: Complete Page).

Manual Testing: Executing all test cases manually and documenting results.

UI Testing: Basic validation of layout, spelling and usability on main pages.

Automation testing: Automation of the main/core functions of the system.

Compatibility Testing: Includes Chrome, Edge, Firefox browsers.

2.2 Out of Scope

Performance, Load, and Stress Testing.

Security and Penetration Testing.

Database Testing.

3. Features to Be Tested

Testing will be focused on the 6 core User Stories defined for the project:

- **US-01: Login Page**
- **US-02: Products Page**
- **US-03: Cart Page**
- **US-04: Checkout 'Your Information Page'**
- **US-05: Checkout 'Overview Page'**
- **US-06: Checkout 'Complete Page'**

4. Team and Responsibility

| Team Member | Roles | Responsibilities |
|-------------|-------------|-------------------------------------------------------------------|
| Aml Ahmed | QA Engineer | US-03: Cart Page US-04: Checkout 'Your Information Page' |
| Esraa Sameh | QA Engineer | US-02: Products Page |
| Farah Magdy | QA Engineer | US05: Checkout 'Overview Page' US-06: Checkout 'Complete Page' |

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|-------------|-------------|-------------------|
| Ahmed Akram | QA Engineer | US-01: Login Page |
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5. Test deliverables

- **Test Plan (This Document):** Documentation/Test Plan.pdf
- **Requirements Traceability Matrix:** Documentation/RTM.xlsx
- **Jira Artifacts Export:** Documentation/Test Summary report.pdf
- **Automation Scripts:** Manual/Jira Export.csv
- **Test Summary Report:** Automation/DEPI_Automation

6. Test Environment and Technology

6.1 Manual Testing and Management Tools:

| Tool | Purpose | Version/Platform |
|----------|-------------------------------------|---------------------|
| Jira | Project Management and Bug Tracking | Jira Cloud |
| Github | Version Control and Collaboration | Web Cloud |
| MS Excel | Manual Test Artifacts | (Desktop/Office365) |

6.2 Automation Testing stack:

| Tool | Purpose | Version |
|---------------|------------------------------------|-------------------|
| Java | Programming Language | 21 |
| Selenium | Browser Automation Framework | 4.27.0 |
| TestNG | Testing Framework | 7.10.2 |
| Maven | Build & Dependency Management | (Project Default) |
| IntelliJ IDEA | Integrated Development Environment | 2025.2.4 |

7. Test Strategy

7.1 Test Case Design: Team members will analyze their assigned User Stories and write detailed, formal test cases in Jira.

These cases will cover:

- **Positive Scenarios:** To ensure the features work as expected.
- **Negative scenarios:** To ensure the system handles invalid data gracefully.
- **Error Guessing Scenarios:** To find non-obvious defects.

7.2 Test Execution:

- All test cases will be executed manually by the responsible QA Tester.
- Results will be logged (Pass/Fail) in Jira.

7.3 Bug Reporting and Triage:

7.3.1 Any fail result will be logged as a bug in the Jira project board.

7.3.2 Each Bug Report must be detailed, including:

- A clear, concise Title.

- Steps To Reproduce (with test data).
- Actual Result vs. Expected Result.
- Environment.
- Screenshots and/or Video evidence.
- A defined Severity (Critical, High, Medium, Low).

7.3.3 The team will briefly meet to review bugs and assign a Priority.

8. Schedule

| Milestone | Start Date | End Date | Responsible |
|---------------------------------------|------------|------------|-------------|
| Phase1: Planning | 20-10-2025 | 21-10-2025 | All team |
| Test Plan finalization | 20-10-2025 | 20-10-2025 | All team |
| Phase2: Design | 22-10-2025 | 27-10-2025 | All team |
| All test cases written (for all 6 US) | 22-10-2025 | 26-10-2025 | All team |
| RTM Creation | 26-10-2025 | 27-10-2025 | All Team |
| Phase3: Execution | 28-10-2025 | 31-10-2025 | All Team |
| Test Execution | 28-10-2025 | 29-10-2025 | All Team |
| Bug Reporting | 29-10-2025 | 31-10-2025 | All Team |
| Phasse4: Automation | 01-11-2025 | 15-11-2025 | All Team |
| Github & Environment Setup | 01-11-2025 | 01-11-2025 | All Team |
| Implementation | 02-11-2025 | 13-11-2025 | All Team |
| Test summary Report | 14-11-2025 | 14-11-2025 | All Team |
| Final Project Submission | 15-11-2025 | 15-11-2025 | All Team |