SwagLabs Test Plan

Project Name | SwagLabs Website

Test Lead Name | Bassam Mostafa Abozaid

Test Members Names |

1. Mohammed Hytham Mohammed
2. Zeyad Samy Shalaby
3. Asmaa Abdelhakem Arafa
4. Norhan Anwar Younis

Number of User Stories | 5

Types of Testing Used | Static, Manual, API, Automation

Total Estimated Time | 6 weeks

Risks

1. Inadequate test coverage leading to undetected critical defects.
2. Delays in test execution due to environment or dependency issues.
3. Data security vulnerabilities that may be exploited.
4. Integration issues between frontend and backend components.
5. Limited resources or unavailability of key team members.

Risks Handling
1. Implement thorough test planning and maintain detailed test coverage to minimize undetected defects.
2. Establish backup environments and contingency plans to avoid delays from environment issues.
3. Perform regular security testing and enforce strong data protection measures.
4. Conduct integration testing early and often to detect issues between frontend and backend.
5. Allocate backup resources and cross-train team members to handle unexpected absences.

User Stories:-

No of user story	User Story Name	Assigned Tester
1	User Login & Authentication	Asmaa Abdelhakem Arafa
2	Product Browsing & Search	Zeyad Samy Shalaby
3	Add to Cart & Cart Management	Norhan Anwar Younis
4	Checkout & Order Placement	Mohammed Hytham Mohammed
5	User Logout & Session Management	Bassam Mostafa Abozaid

Test Activities: -

1. **Writing Test Cases**: Create detailed manual and automated test cases based on user stories and requirements.
2. **Bug Reporting**: Log identified defects in the bug tracking system, including steps to reproduce and severity levels.
3. **Summary Report**: Provide a comprehensive summary report after test cycles, highlighting test coverage, defects, and overall product quality.

Stakeholder Analysis

Stakeholder	Role	Responsibilities	Expectations
Project Manager	Oversees the entire project timeline and deliverables	Approve milestones, monitor progress, and ensure coordination	Timely delivery and quality assurance
Test Lead – Bassam Mostafa Abozaid	Coordinates all testing activities	Assign tasks, review test cases and reports	Comprehensive testing coverage
Developers	Implement and fix application issues	Resolve reported defects and verify fixes	Clear and actionable defect reports
Testers – (Asmaa, Mohammed, Zeyad, Norhan)	Execute test cases and log bugs	Perform manual and automation testing	Stable test environment and clear requirements
End Users	Use and evaluate the SwagLabs website	Provide usability feedback	Smooth, fast, and secure user experience

Database Design

Objective: To define the database structure supporting SwagLabs functionalities.

Main Entities :

Table Name	Key Fields	Description
Users	User_ID, Username, Password, Email, Role	Stores user information and access credentials
Products	Product_ID, Product_Name, Price, Category, Stock_Quantity	Contains product catalog data
Cart	Cart_ID, User_ID, Product_ID, Quantity	Temporary storage for user-selected products
Orders	Order_ID, User_ID, Total_Amount, Order_Date, Status	Tracks customer orders
Order_Details	OrderDetail_ID, Order_ID, Product_ID, Quantity, Price	Details for each item in an order

Relationships:

- One **User** → Many **Orders**

- One **Order** → Many **Order_Details**

- One **Product** → Many **Order_Details**

- One **User** → One **Cart**

UI/UX Design

Goal: Create an intuitive and visually appealing user interface to enhance user satisfaction.

Key Screens

1. **Login Page** – Minimal login form with "Forgot Password" link.

2. **Home Page** – Displays product grid, categories, and search bar.

3. **Product Details Page** – Shows image, description, and "Add to Cart" button.

4. **Cart Page** – Lists selected products, quantities, total price, and checkout option.

5. **Checkout Page** – Contains payment details and order summary.

6. **Confirmation Page** – Displays order confirmation message and reference number.

7. **Logout Function** – Ends user session securely.

UX Principles

- Consistent color palette and branding

- Responsive layout (desktop and mobile)

- Clear navigation and hierarchy

- Fast performance and optimized images

- Accessible design (readable fonts, contrast)