Software Testing Project Proposal

Project Name: Test Horizon
Website Name: SWAGLABS
Team Leader: Abdelrahman Tarek Darwesh Abdelfattah

Team Members & Roles

User Story	Team Member
Login	Alaa Mohamed Ahmed Ali
Homepage	Habiba Ragab Rady Mohamed
Cart	Mohamed Akram Abdalkawy Almarakby – Abdelrahman Tarek Darwesh Abdelfattah
Checkout	Mahamed Yasser Mohamed Elgrwany
Sidebar	Mohamed Ayman Mohamed Selem

1. Project Description

This project aims to test the Swag Labs e-commerce platform to ensure it functions correctly across its main features including login, homepage, cart operations, checkout, and sidebar navigation. The testing process follows a structured approach combining manual, static, API, and automation testing to validate both functional and non-functional requirements.

2. Objectives

- Ensure all main functions of the Swag Labs website work correctly.
- Detect functional and UI defects before release.
- Improve the quality, usability, and reliability of the web application.
- Validate the checkout and navigation flow for a seamless user experience.
- Provide detailed documentation including Test Cases, Bug Reports, and a Test Summary Report.

3. Tools & Technologies

- Selenium WebDriver – For test automation.
- Postman – For API testing.
- Excel / Google Sheets – For test case documentation.
- Jira / Trello – For bug tracking and task management.
- Browsers: Google Chrome, Microsoft Edge.
- OS: Windows 11.

4. Milestones & Deadlines (3 Weeks Total)

Milestone	Description	Deadline
Week 1	Test Planning and Requirement Review	1 Nov 2025
Week 2	Test Case Design and Execution	8 Nov 2025
Week 3	Automation Testing and Final Reporting	15 Nov 2025

5. KPIs (Key Performance Indicators)

KPI	Description	Target
Test Coverage	Percentage of core features covered by tests (login, cart, checkout, etc.)	≥ 90%
Automation Success Rate	Percentage of automated tests that pass successfully	≥ 95%
Script Reliability (Flaky Test Ratio)	Ratio of unstable/intermittent test failures	≤ 5%
Maintainability Score	Code quality and use of Page Object Model	≥ 85%
Execution Efficiency (Suite Runtime)	Time to execute full automated suite	≤ 10 min
Defect Detection Effectiveness	Percentage of defects found before release	≥ 90%

6. Stakeholders Analysis

Stakeholder	Role / Responsibility	Interest & Influence Level	Communication Method
Abdelrahman Tarek Darwesh Abdelfattah (Team Leader)	Lead the project, assign tasks, and ensure quality and deadlines.	High	-
Team Members (Alaa Mohamed – Habiba Ragab – Mohamed Akram – Mohamed Yasser – Mohamed Ayman)	Execute tests, document results, and report bugs.	High	WhatsApp / Zoom
Dr. Hossam Khalifa (Instructor)	Provide guidance and answer questions when needed.	Medium	WhatsApp / Zoom – As needed

7. Expected Deliverables

- Test Plan
- User Stories
- Test Cases
- Bug Reports
- Test Summary Reports
- Final Presentation Slides

8. Conclusion

This proposal outlines a structured testing plan to ensure that the Swag Labs e-commerce application meets its quality standards. By combining manual, API, and automation testing, the team aims to deliver a stable, functional, and user-friendly product.