

# Final Project Proposal – Swag Labs Website

## 1. Project Description

The project focuses on testing the Swag Labs e-commerce website (<https://www.saucedemo.com/>). The platform allows users to log in, browse products, add them to the cart, and complete purchases. The project aims to ensure all core functionalities such as login, product browsing, shopping cart, and checkout operate smoothly, securely, and efficiently through manual and automated testing.

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## 2. Group Members & Roles

No.	Name	Role
1	Esraa Mohammed Elghorab	Team Leader
2	Mohamed Yousry Said	Team Member
3	Mahmoud Ahmed ElSayed Mohamed Mousa	Team Member
4	Mohamed Lotfy Abdel Hakeem Elzoghby	Team Member
5	Bassem Kamal Mostafa AboSeeda	Team Member

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## 3. Team Leader

Esraa Mohammed Elghorab

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## 4. Objectives

- Verify Swag Labs core features: login, product browsing, cart management, and checkout flow.
  - Identify and document functional and non-functional defects.
  - Improve website quality and user experience through systematic testing.
  - Apply testing principles learned in the course, including manual, automation, and API testing.
  - Deliver complete testing documentation (test cases, bug reports, and summary reports).
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## 5. Tools & Technologies

- Test Management: Jira, Excel
  - Browsers: Chrome, Brave
  - Operating Systems: Windows 10 / 11
  - Automation Tools: Selenium WebDriver, Java
  - API Testing: Postman
  - Test Environment: <https://www.saucedemo.com/>
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## 6. Milestones & Deadlines

Milestone	Description	Deadline
Project Planning	Define scope, objectives, and risks	Week 1
Test Case Design	Write manual test cases for all user stories	Week 2
Test Environment Setup	Configure browsers, data, and tools	Week 3
Test Execution	Run manual and automation tests	Week 4–5
Defect Reporting	Log and track all identified bugs	Week 5
Test Summary Report	Document test results and conclusions	Week 6

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7. Key Performance Indicators (KPIs)

KPI	Definition	Target
Test Coverage	% of core features (login, browse, cart, checkout) covered by automated tests	≥ 90%
Automation Success Rate	% of automated test cases that pass across all runs	≥ 95%
Script Reliability (Flaky Test Ratio)	% of intermittently failing tests due to timing/environment issues	≤ 5%
Maintainability Score	Evaluation of code structure, POM use, and best practices	≥ 85%
Execution Efficiency (Suite Runtime)	Total time for full automated suite execution	≤ 10 minutes
Defect Detection Effectiveness	% of total defects identified before release	≥ 90%