

OPENCART

TESTING SYSTEM

Project Overview

Our system aims to test an OpenCart e-commerce website to ensure it works correctly, is easy to use, and performs well under different conditions. The team will check the user interface, APIs, automation, performance, and security to identify and fix any issues. The goal is to improve the website's functionality, speed, and safety before it is fully launched.

Project Goals

Ensure the website works correctly without issues.

Improve website usability to make it simple and easy.

Ensure data security with no protection issues.

Test website speed and performance under heavy use.

Detect and fix errors before launching the site

Provide feedback and improvements to enhance the website

Team members



**Maram Hosni
Ahmed**

UI Testing

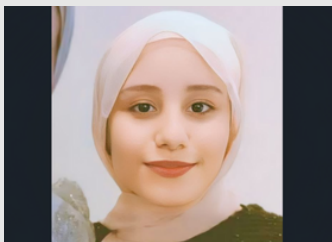
- ◆ Manually test core functions like login, search, and checkout.
- ◆ Check UI design and usability.
- ◆ Report user experience issues.



**Shams Ragab
Sayed**

API Testing

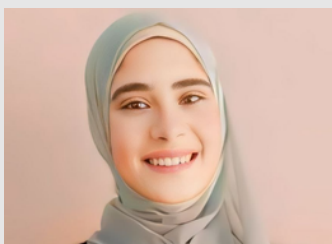
- ◆ Use Postman to test OpenCart APIs.
- ◆ Check server responses and data accuracy.
- ◆ Report API performance issues.



**Rana Waleed
Mohammed**

Automation Testing

- ◆ Automate front-end tests with Selenium.
- ◆ Create scripts to check site functions.
- ◆ Run repeated tests for stability.



**Asmaa Ali
Ahmed**

Performance & Security Testing

- ◆ Use JMeter to test site performance.
- ◆ Analyze response speed under high traffic.
- ◆ Test security and detect vulnerabilities.

Project Timeline

ANALYSIS PHASE

Week 1

We begin by identifying test requirements and target functionalities in OpenCart. During this phase, we analyze possible usage scenarios for the website and prepare test cases based on core functionalities to ensure comprehensive coverage.

DESIGN PHASE

Week 2

In this phase, we design both manual and automated test plans. We determine the testing tools, including Selenium, Postman, and JMeter. Additionally, we set up the test environment, configuring OpenCart for testing to ensure smooth execution.

EXECUTION PHASE

Week 3

This phase involves performing manual testing on store functions such as account registration, product search, and checkout. Automated tests are executed using Selenium and Postman. We also conduct performance testing with JMeter to analyze the site's response under load, alongside security testing to verify data protection.

EVALUATION & REPORTING

Week 4

We analyze test results and document discovered bugs. Based on the findings, we provide recommendations for improvement. Finally, we prepare and deliver a detailed report summarizing our testing process and outcomes.