# TEST PLAN GROUP 1

Team leader:Rawanashraf

## Project Name **demo.open cart**



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## 1. Project Information

#### 1.1 Project Overview

This project tests the main functions of the OpenCart demo website. The goal is to check that users can register, log in, search for products, add items to the cart, and complete checkout without errors

#### 1.2 Website Under Test

Website: https://demo.opencart.com/

#### 1.3 Testing Types

We will perform different types of testing to make sure the OpenCart demo website is fully functional, stable, and user-friendly.

The main testing types included in this project are:

- · Functional Testing:
- To verify that all features (registration, login, search, add to cart, checkout, etc.) work as expected according to requirements.
- · Smoke Testing:
- To check that the basic and most important features of the website are working properly after new updates or builds.
- Regression Testing:
- To ensure that no existing functionality is broken after changes, fixes, or new feature additions.
- · Sanity Testing:
- To confirm that bug fixes and minor updates are working before running a full regression test.
- UI/UX Testing:
- To make sure the website design, layout, buttons, and text are user-friendly and consistent across all pages.
- · Integration Testing:
- To check that different modules (like login, cart, and checkout) work correctly together.
- · Compatibility Testing:
- To verify that the website performs correctly on different browsers and operating systems.

These testing types together help ensure a high-quality and smooth user experience for the OpenCart website.

#### 1.4 Environment and Browsers Used

Testing will be performed on the following environment and browsers to ensure full compatibility and accurate results:

#### • Operating System:

Windows 10

Windows 10pro

Windows 11

Windows 11pro

#### • Browsers:

Google Chrome (latest version)

Microsoft Edge (latest version)

All tests will be executed on these browsers to confirm that the OpenCart demo website functions correctly and looks consistent in both environments.

#### 2. Team Members and Roles

#### 2.1 TEAM STRUCTURE

The QA team has six members working together on all testing activities

Everyone is involved in Manual Testing, Automation Testing, API Testing, and Database Testing.

The work is fully collaborative, and all members share tasks and support each other during the entire testing process. of body text

## 2.2 Roles and Responsibilities

Name	Role	Responsibilities	
Rawan Ashraf	Team Leader / QA Tester	Leads the team, plans the testing schedule, reviews reports, and works with the team in all testing activities.	
Somaya Muhammed	QA Tester  Works with the team of manual, automation, API, and database testing.		
Waad Ayman	<b>QA Tester</b> Works with the team o manual, automation, API, and database testing.		
Sara Abdel-Moneim	QA Tester  Works with the team of manual, automation, API, and database testing.		
Sondos Gad	QA Tester	Works with the team on manual, automation, API, and database testing.	
Mariam Essam	QA Tester	Works with the team on manual, automation, API, and database testing.	

## 3. Scope

#### 3.1 In Scope

#### We will test:

• User Registration and Login:

Check that new users can create accounts, log in, and log out successfully.

• Product Search and Filters:

Make sure users can search for products and use filters (like price or category) correctly.

Add to Cart and Checkout Process:

Verify that products can be added to the shopping cart, and the checkout process works properly until the confirmation page.

• Order History and User Profile:

Test that users can view their previous orders and update personal details.

#### · API Testing:

Check that the APIs return correct data for product listings, categories, and user actions.

• Database Testing:

Verify that data is stored correctly in the database after actions like registration, adding to cart, or placing orders.

• Automation Testing:

Automate the main user flows like login, search, add-to-cart, and checkout using Selenium on Chrome and Edge browsers.

Automation will help run tests faster and check system stability after update

#### 3.2 Out of Scope

This section defines what will not be tested in this project.

We are focusing only on the demo website features, not on full production or external systems.

• Real Payment Gateways:

No real payments or credit card transactions will be tested.

• Third-Party Plugins:

Any external extensions or modules not included in the demo will not be tested.

#### **Performance or Load Testing:**

• The project does not include speed, stress, or scalability testing.

#### .Mobile App Testing:

Only web browsers will be used — mobile apps are not part of this project.

## 4. Website Features

#### Home Page

- 1. Displays main menu and site navigation.
- 2. Shows featured products and latest products.
- 3. Includes top links: My Account, Wish List, Shopping Cart, Checkout.
- 4. Contains search bar and shopping cart icon.
- 5. Displays slideshow banners and featured categories.

#### My Account Section

- 1. Password: Request password reset through email.
- 2. My Account Page: View and update personal information.
- 3. Address Book: Add, edit, or delete saved addresses.
- 4. Order History: View details of completed and pending orders.
- 5. Downloads: Access downloadable products (if available).
- 6. Reward Points / Returns / Transactions: View related customer data.
- 7. Newsletter: Subscribe or unsubscribe from newsletters.

#### Product Catalogue

- 1. Browse by Category from the main navigation bar (Desktops, Laptops, Components, Tablets, Software, Phones, Cameras, etc.).
- 2. View Subcategories for each main category.
- 3. Each product card shows product name, price, image, and "Add to Cart" button.
- 4. Option to Add to Wish List or Compare.

#### Search Feature

- 1. Search for products using keywords.
- 2. Displays matching results with product images and prices.
- 3. Supports sorting (by price, name, rating) and product limit per page.

#### Product Details Page

- 1. Shows product description, specifications, price, stock availability, and reviews.
- 2. Includes options to Add to Cart, Add to Wish List, and Compare.
- 3. Allows customers to write product reviews (if logged in).

#### Shopping Cart

- 1. Displays all added products with name, image, quantity, price, and total.
- 2. Allows user to update quantity or remove items.
- 3. Shows subtotal, taxes, and total price.
- 4. "Continue Shopping" and "Checkout" buttons.

#### Checkout Process

- 1. Guest Checkout or Registered User Checkout.
- 2. Steps: Billing Details → Delivery Details → Delivery Method → Payment Method → Confirm Order.
- 3. Displays order confirmation message after success.

#### Wish List

- 1. Allows users to add products for future purchase.
- 2. Accessible only when logged in.
- 3. Supports adding items from Wish List to Cart or removing them.

#### Product Comparison

- 1. Users can compare multiple products side-by-side.
- 2. Shows name, image, price, description, and specifications for each item.

#### Contact Us Page

- 1. Contains a form for customer inquiries (Name, Email, Message).
- 2. Sends confirmation after successful submission.

#### Currency and Language Options

- 1. Users can switch between different currencies (USD, EUR, GBP).
- 2. Users can change website language (e.g., English).

#### Information Pages

- 1. About Us
- 2. Privacy Policy
- 3. Terms & Conditions
- 4. Delivery Information
- 5. Returns
- 6. Site Map

## **5.Testing Objectives**

### The goal of this test plan is to ensure that:

- All key website functions work correctly.
- The user experience is smooth and error-free.
- The system behaves consistently after updates.
- Bugs are reported clearly and fixed before release.

## 6. Test Schedule (All Sprints)

Project Duration: 14 Oct 2025 → 26 Nov 2025

#### Sprint 1 — Planning (14–150ct)

- Define project scope and objectives.
- Prepare Test Plan and schedule.
- Define entry and exit criteria.
- Deliverables: Test Plan Document, Project Roadmap

#### Sprint 2 — Analysis & Design (19 Oct - 2 Nov)

- Exploratory testing.
- Create manual, API, database, and automation test cases.
- Integrate with Jira.
- Deliverables: Initial Test Cases, BDD Feature Files, Jira setup

#### Sprint 3 — Implementation (3–15 Nov)

- Set up GitHub repository.
- Configure Postman for API testing.
- Create SQL queries for database validation.
- Prepare JMeter performance setup.
- Deliverables: Framework Repository, Postman Collection, SQL Queries

#### Sprint 4 — Execution & Closure (16-26 Nov)

- Run full test suite (UI, API, DB, Performance).
- Generate execution reports.
- Integrate Jenkins for CI/CD.
- Prepare final report and close project.
- Deliverables: Final Report, CI/CD Pipeline, Documentation

## 7. Entry Criteria

- The OpenCart demo site is accessible.
- Test environment and tools are ready.
- All required accounts and test data are prepared.
- Test cases are approved by the QA lead.

## 8. Exit Criteria

- All planned test cases are executed.
- No critical or high-severity defects remain open.
- Test summary report is complete and approved
- Automation suite runs successfully without failure.

## 9. Test Deliverables

- 1. Test Plan Document
- 2. Test Case Documents
- 3. Bug/Defect Reports
- 4. Test Execution Results
- 5. Test Summary Report
- 6. Final Documentation
- 7. Automation Scripts (Selenium)
- 8. Postman Collections (API Tests)

## 10. Testing Types Overview

#### 10.1 Manual Testing

Manual testing is used to check the website's main functions manually without using tools.

The QA team will explore all pages, forms, and buttons to make sure everything works as expected.

This helps to find visual or usability issues that automation might miss.

Examples: login, registration, search, add to cart, and checkout.

#### 10.2 Automation Testing

Automation testing will help the team run test cases faster and more accurately.

The team will create automated scripts using Selenium WebDriver to test the main user flows, such as login, add to cart, and checkout.

Automation ensures that tests can be repeated easily after every change or update.

It also helps save time and detect bugs early.

#### 10.3 API Testing

API testing checks that the system's APIs work correctly and return the right responses.

Using Postman, the team will send different requests to the OpenCart demo APIs and verify the response codes, messages, and data.

This type of testing ensures the connection between frontend and backend systems is working properly.

#### 10.4 Database Testing

Database testing focuses on verifying that data in the backend is stored and updated correctly. The team will use MySQL to run SQL queries and check if actions on the website (like registration or checkout) are reflected in the database.

This helps make sure the data is accurate and consistent after every user operation.

## 11. Risks and Mitigation Plan

Risk	Impact	Mitigation	
Demo site downtime	High	Schedule buffer time for retesting.	
Browser issues	Medium	Use both Chrome and Edge for testing.	
Missing test data	Medium	Use both Chrome and Edge for testing.	
Limited time	Low	Use both Chrome and Edge for testing.	

## 12. Approval

Role	Name	Signature	Date
QA Team Leader	Rawan Ashraf	_	_
Instructor / Supervisor	_	_	_

## 13. References

- OpenCart Official Website:
- https://www.opencart.com/
- OpenCart Demo Website:
- https://demo.opencart.com/
- OpenCart Official Documentation:
- https://docs.opencart.com/
- Selenium WebDriver Documentation:
- https://www.selenium.dev/documentation/
- Postman Learning Center (API Testing):
- https://learning.postman.com/
- Apache JMeter Official Documentation (Performance Testing):
- https://jmeter.apache.org/usermanual/
- MySQL Documentation:
- https://dev.mysql.com/doc/
- Jira Software Documentation (Test Management & Tracking):
- https://support.atlassian.com/jira-software-cloud/
- Cucumber (BDD Framework):
- https://cucumber.io/docs/
- Git and GitHub Documentation:
- https://docs.github.com/

## 14. Conclusion

This Test Plan document summarizes the complete testing approach for the OpenCart Demo Website. It defines the project scope, objectives, testing types, schedule, and responsibilities of the QA team. All planned activities — including functional, regression, integration, and compatibility testing — will ensure that the website performs correctly and provides a smooth user experience.

The QA team, led by Rawan Ashraf, has worked collaboratively on every stage of this plan to prepare a clear and organized testing process.

By the end of this project, the automated testing framework will be ready for execution, documentation, and continuous improvement.

Final Submission Date: 26 November 2025
Project Status: Ready for Execution 27