Mini Project: End-to-End SQA Journey (Manual Testing)

Project Information

- **Application Name:** OpenCart Demo
- **URL:** https://demo.opencart.com/
- **Testing Type:** Manual Testing
- **Module Tested:** Product Search & Shopping Cart
- **Domain:** E-commerce

Phase 1: Requirement Analysis & Planning

Mind Map (Product Search & Shopping Cart)

Product Search

- Search using product name
- Partial keyword search
- Empty search behavior
- Search result display

Shopping Cart

- Add product to cart
- Update product quantity
- Remove product from cart
- Cart total price calculation

Mini Test Plan

Objective

The objective of this project is to verify the functionality, usability, and reliability of the Product Search and Shopping Cart features of the OpenCart e-commerce application.

Scope

In Scope

- Product search functionality
- Add to cart, update cart, remove from cart
- Basic UI and usability checks

Out of Scope

- Checkout and payment
- User registration and login
- Performance and security testing

Entry Criteria

- OpenCart demo site is accessible
- Browser is functioning properly
- Products are available in the system

Exit Criteria

- All planned test cases executed
- Defects identified and documented
- Final test summary prepared

Phase 2: Test Design & Execution

Test Cases

TC ID	Test Scenario	Test Steps	Expected Result	Type
TC-01	Search product with valid name	Enter product name in search bar → Click Search	Relevant products displayed	Positive
TC-02	Add product to cart	Select product → Click Add to Cart	Product added successfully to cart	Positive
TC-03	Update product quantity in cart	Go to Cart → Change quantity → Update	Cart quantity and price updated	Positive
TC-04	Search with invalid product name	Enter random text → Click Search	"No products found" message shown	Negative
TC-05	Add product with quantity zero	Go to cart → Set quantity to 0 → Update	Product should be removed or validation shown	Edge Case

Exploratory Testing (UI/UX Observations)

- Search bar lacks suggestion or autocomplete feature
- Success message disappears quickly after adding product to cart
- Cart icon feedback is minimal
- No confirmation dialog before removing items from cart

Test Execution Report

Test Case ID	Result
TC-01	Pass
TC-02	Pass
TC-03	Pass
TC-04	Pass
TC-05	Fail

Phase 3: Bug Reporting & Closure

Bug Title: Cart allows quantity zero without proper validation or message

Steps to Reproduce:

1. Open OpenCart demo site
2. Search and add any product to cart
3. Navigate to Shopping Cart
4. Change product quantity to **0**
5. Click **Update**

Expected Result:
System should either remove the product automatically or show a validation message.

Actual Result:
Cart updates without clear confirmation or validation, causing confusion.

Severity: Medium
Priority: Medium

Final Summary & Recommendation

OpenCart provides a stable and functional e-commerce experience for basic shopping features. Core functionalities such as product search and cart management work correctly, but minor usability issues exist. The product is suitable for release, though UX improvements are recommended for better customer clarity.