

OpenCart QA Testing Project Documentation

1. Project Overview

1.1 Project Name:

OpenCart E-Commerce Web Application – Manual, Database, and API Testing

1.2 Objective

The objective of this project is to validate the functional correctness, usability, reliability, and data integrity of the OpenCart application through:

- **Manual UI Testing**
- **API Testing using Postman**
- **Database Testing using MySQL**
- Testing in a **localhost environment** using XAMPP/WAMP.

1.3 Test Environment

Component	Details
Application	OpenCart (Localhost Version)
Server	Apache (XAMPP/WAMP)
Database	MySQL + phpMyAdmin
API Testing Tool	Postman
Browsers Used	Chrome, Firefox
Testers	Ghada, Mohamed, Menna, Randa, Hesham

2. Scope of Testing

2.1 In-Scope

- Full User Journey (Registration → Checkout → Email Notification)
- Account features

- Product & Category flows
- Cart and Compare functionality
- Admin Dashboard and Management modules
- API testing (Users, Posts, Comments, Todos)
- DB testing for Customers, Orders, Products, Addresses
- UI validation, negative testing, boundary testing

2.2 Out-of-Scope

- Load/performance testing
 - Security testing
 - Integration with external payment gateways
 - Mobile native app
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3. Test Summary Based on Executed Data

- ✓ Total Test Cases Executed: ~ 358+
 - ✓ Overall Pass Rate: ≈ 90%
 - ✓ Failures Found: Multiple across Product, Cart, Checkout, Admin, and DB
 - ✓ Blocked TCs: 8 cases
 - ✓ Bugs Identified: 60+ (from failed + blocked TCs)
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4. Detailed Module Execution Summary

Here is your dataset converted into a clean, professional table format:

4.1 Registration Module (27 TCs)

TCs Passed	Failed	Blocked	Pass Rate
27	25	2	92.6%

4.2 Account Module (124 TCs)

TCs Passed Failed Blocked Pass Rate

124 117 7 0 **94.4%**

Failures mainly in Address Book, Wishlist, Downloads, Subscriptions & Transactions.

4.3 Product Page (25 TCs)

Passed Failed Pass Rate

20 5 **80.0%**

4.4 Category Page (29 TCs)

Passed Failed Pass Rate

27 2 **93.1%**

4.5 Compare Page (12 TCs)

Passed Failed Pass Rate

11 1 **91.7%**

4.6 Cart Module (49 TCs)

Passed Failed Pass Rate

39 10 **79.6%**

This module contains the highest number of user-facing issues.

4.7 Checkout Module (20 TCs)

Passed Failed Blocked Pass Rate

17 3 1 **85.0%**

4.8 Admin Panel (96 TCs)

Passed Failed Pass Rate

55 41 **57.3%**

Admin area has **critical functional issues**, especially in:

- Order Management
 - Customer Management
 - Coupon List
 - Gift Voucher
 - Returns
 - Stock Status
 - Some Advanced Sales features
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4.9 Database Testing (20 TCs)

Passed Failed Pass Rate

19 1 **95%**

Failures due to:

- Duplicate product records
 - Data inconsistency
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4.10 API Testing (24 TCs)

Passed Failed Pass Rate

24 0 **100%**

All API endpoints for Users, Posts, Comments, and Todos passed successfully.

5. Overall Project Metrics

Metric	Value
Total Test Cases	358+
Total Passed	322+
Total Failed	36+
Total Blocked	8
Overall Pass Rate	~90%
Total Bugs Logged	60+

6. Key Defects Identified

Some major issues found include:

Critical / High

- Missing payment methods except Cash on Delivery
- Checkout validation failures
- Product alternate images incorrect
- Confirmation email not received in localhost
- No quantity validation
- Category listing incorrect
- Admin: Order Management broken
- Duplicate names in DB (firstname + lastname + email)

Medium

- Discount price not visible
- Wishlist and Address Book inconsistency
- Compare page single image issue

Low

- Minor UI issues
 - Typos and alignment issues
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7. Exit Criteria (Based on Actual Data)

Testing is considered complete when the following conditions are met:

7.1 Functional Exit Criteria

- All Test Suites executed: Yes (100%)
- 90%+ overall pass rate achieved: Yes ($\approx 90\%$)
- No Critical Severity defects remain:
Pending — Several Critical bugs logged
- All Major defects fixed or workarounds approved:
Pending business decision
- Blocked Test Cases resolved or deferred:
8 TCs are still blocked

❖ Given the current data, the application is NOT fully ready for production but is suitable for UAT with known issues.

✓ 7.2 API Exit Criteria

- All API TCs executed (24/24)
- 100% pass rate
- All endpoints responding with valid status codes
- Authentication validated

❖ API Testing successfully meets the exit criteria.

✓ 7.3 Database Exit Criteria

- All DB tests executed (20/20)
- All data integrity checks validated
- Only 1 failed test (duplicates found)
- No broken table relations

❖ DB Exit Criteria met except for duplicate data issue.

✓ 7.4 Documentation Exit Criteria

- Test Plan created
- Test Cases written and executed for all modules
- Defect Logs maintained
- Summary Report completed
- Traceability Matrix mapped

❖ Documentation requirements completed.

8. Final Conclusion

Based on the executed data:

- ✓ **Majority of modules show strong stability (Pass Rate 90%+).**
- ✓ **API and Database layers perform reliably.**
- ✓ **UI functional testing is mostly stable with some exceptions.**
- ! **Admin module has significant issues (Pass Rate 57%).**
- ! **Several high-severity issues remain unresolved.**
- ! **Checkout and cart issues require fixes before production release.**

❖ **Recommendation:**

Software is **not yet production-ready**, but acceptable for **UAT phase** after fixing high-priority defects.