

# OpenCart QA Testing Project Documentation

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## 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

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## 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:

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### 4.1 Registration Module (27 TCs)

TCs					Failed	Blocked	Pass Rate
27	25	2	0				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.

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## 4.3 Product Page (25 TCs)

**Passed Failed Pass Rate**

20 5 80.0%

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## 4.4 Category Page (29 TCs)

**Passed Failed Pass Rate**

27 2 93.1%

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## 4.5 Compare Page (12 TCs)

**Passed Failed Pass Rate**

11 1 91.7%

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## 4.6 Cart Module (49 TCs)

**Passed Failed Pass Rate**

39 10 79.6%

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

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## 4.7 Checkout Module (20 TCs)

**Passed Failed Blocked Pass Rate**

17 3 1 85.0%

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## 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.

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# 5. Overall Project Metrics

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

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## 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.

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## ✓ 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.

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## ✓ 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.

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## ✓ 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.

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## 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.