

# Test Completion Report

**Project:** Demo OpenCart & Trello API Testing

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## 1. Introduction

This report summarizes testing activities conducted on **Demo OpenCart** and **Trello API**.

- **Demo OpenCart** testing covers **Manual, UI, and Database testing**, ensuring that all core e-commerce workflows, user interface elements, and backend data are functional and reliable.
- **Trello API testing** validates REST endpoints for board, card, and list management using **Postman**, ensuring data integrity, correct responses, and proper error handling.

## 2. Scope of Testing

Testing Type	Application	Description
Manual Testing	Demo OpenCart	Verified end-to-end workflows: login, registration, cart, checkout, order management.
UI Testing	Demo OpenCart	Ensured consistency in design, layout, colors, responsiveness, and accessibility.
Database Testing	Demo OpenCart	Validated backend data integrity in MySQL tables (oc_customer, oc_cart, oc_orders).
API Testing	Trello	Validated REST API endpoints for boards, cards, and lists using Postman, including positive and negative test cases.

## 3. Test Environment

Component	Details
Demo OpenCart URL	<a href="https://demo.opencart.com">https://demo.opencart.com</a>
Trello API Base URL	<a href="https://api.trello.com/1">https://api.trello.com/1</a>
Database	Demo OpenCart: MySQL
API Testing Tool	Postman
Browser Coverage	Chrome, Firefox, Edge
OS Tested	Windows 10

## 4. Test Objectives

- Validate functional correctness of Demo OpenCart workflows.
- Ensure UI/UX consistency across devices and browsers.
- Verify database integrity for Demo OpenCart.
- Validate Trello API endpoints for correctness, response codes, and error handling.

## 5. Test Summary

Testing Area	Application	Execution %
Manual,UI Testing	Demo OpenCart	100%
Database Testing	Demo OpenCart	100%
API Testing	Trello	100%
Total	Combined	100%

## 6. Demo OpenCart Database Testing Summary

Test Area	Objective	Result
User Registration	Verify user details stored correctly in <code>oc_customer</code> table	Passed
Product Addition	Validate product entries in <code>oc_product</code> table	Passed
Order Placement	Ensure consistency in <code>oc_order</code> & <code>oc_order_product</code> tables	Passed
Cart Deletion	Validate cart item removal from <code>oc_cart</code> table	Passed

## 7. Demo OpenCart UI/UX Findings

- ✓ Responsive design works correctly on desktop and mobile.
- ⚠ Minor text alignment issue on mobile checkout page.
- ✓ Buttons, icons, and color schemes are consistent.
- ⚠ Slight delay in loading product images on mobile devices.

## 8. Some of Trello API Testing Summary

API Endpoint	Method	Test Scenario	Status
/boards	GET	Retrieve all boards for a user	✓ Passed
/boards	POST	Create a new board	✓ Passed
/boards/{id}	PUT	Update board details	✓ Passed
/boards/{id}	DELETE	Delete board	⚠ Failed (minor delay)
/cards	POST	Add a card to a list	✓ Passed
/cards/{id}	PUT	Update card details	✓ Passed
/cards/{id}	DELETE	Remove a card	✓ Passed

## API Observations:

- Response codes aligned with expected results (200, 201, 400).
- JSON schema validated.
- Minor latency in DELETE /boards/{id} endpoint.
- Negative scenarios handled correctly.

## 9. Defect Summary

Severity	Count
Critical	6
Major	5
Minor	3
Total Defects	14

## Key Defects:

ID	Title	Application	Severity
BUG-01	Some products' description page displays unneeded fields	Demo OpenCart	Critical
BUG-02	User can checkout without logging in	Demo OpenCart	Critical
BUG-03	DELETE /boards/{id} delayed response	Trello API	Minor