Test Plan

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1. Objective

- To verify the functionality, usability, performance, security, and compatibility of the OpenCart.com e-commerce website to ensure it meets the defined requirements and provides a positive user experience.
- To identify and document any defects or deviations from the expected behaviour.
- To ensure the website is stable and ready for deployment.

2. Scope

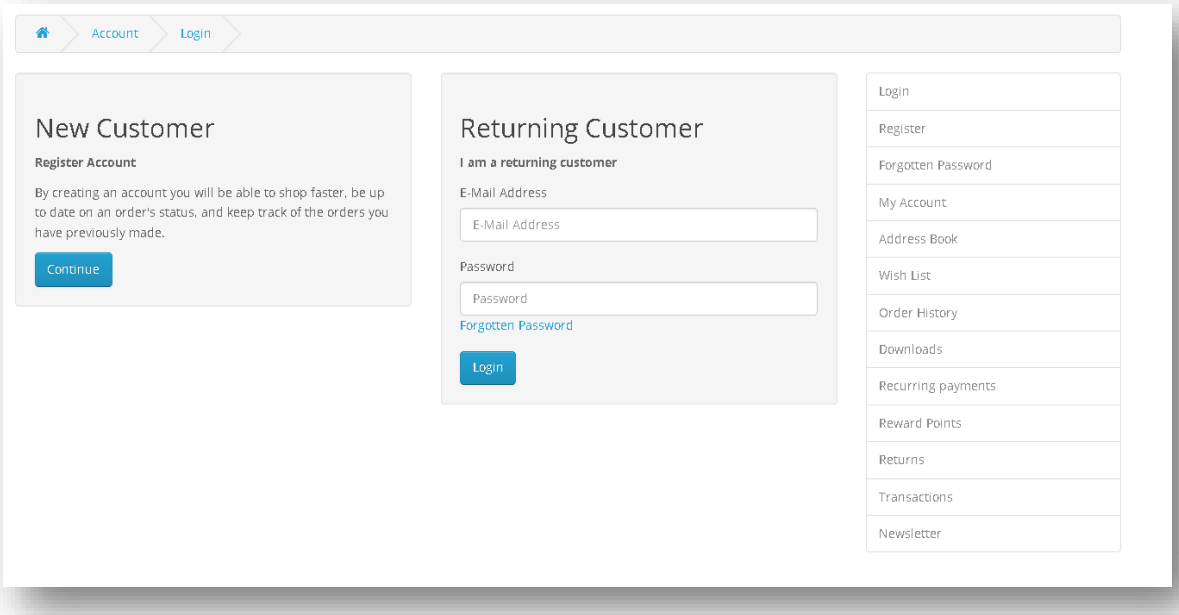
This test plan covers the following areas of the website:

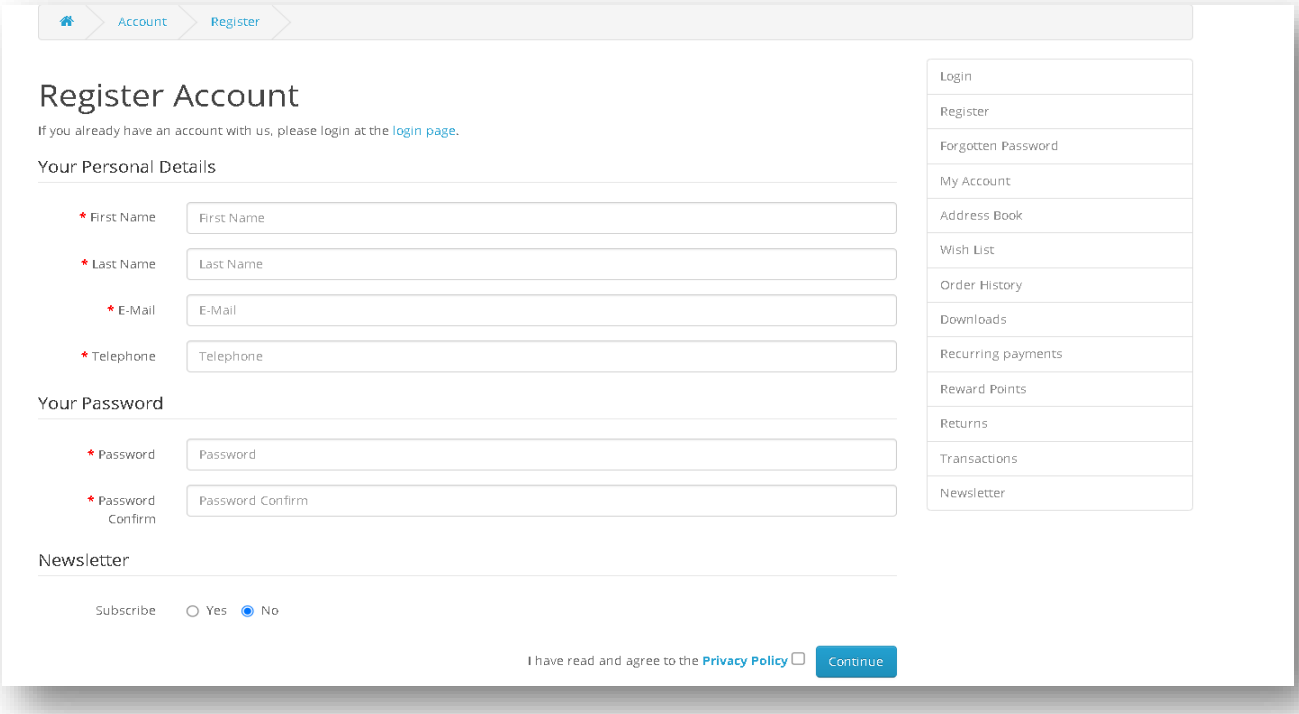
- Homepage and Navigation
- Product Catalog and Listings
- Product Detail Pages
- Search Functionality
- User Account Management (Registration, Login, Profile Management)
- Shopping Cart Functionality (Adding, Removing, Updating Items)
- Wishlist Functionality
- Product Comparison Functionality
- Responsiveness across defined devices and browsers.

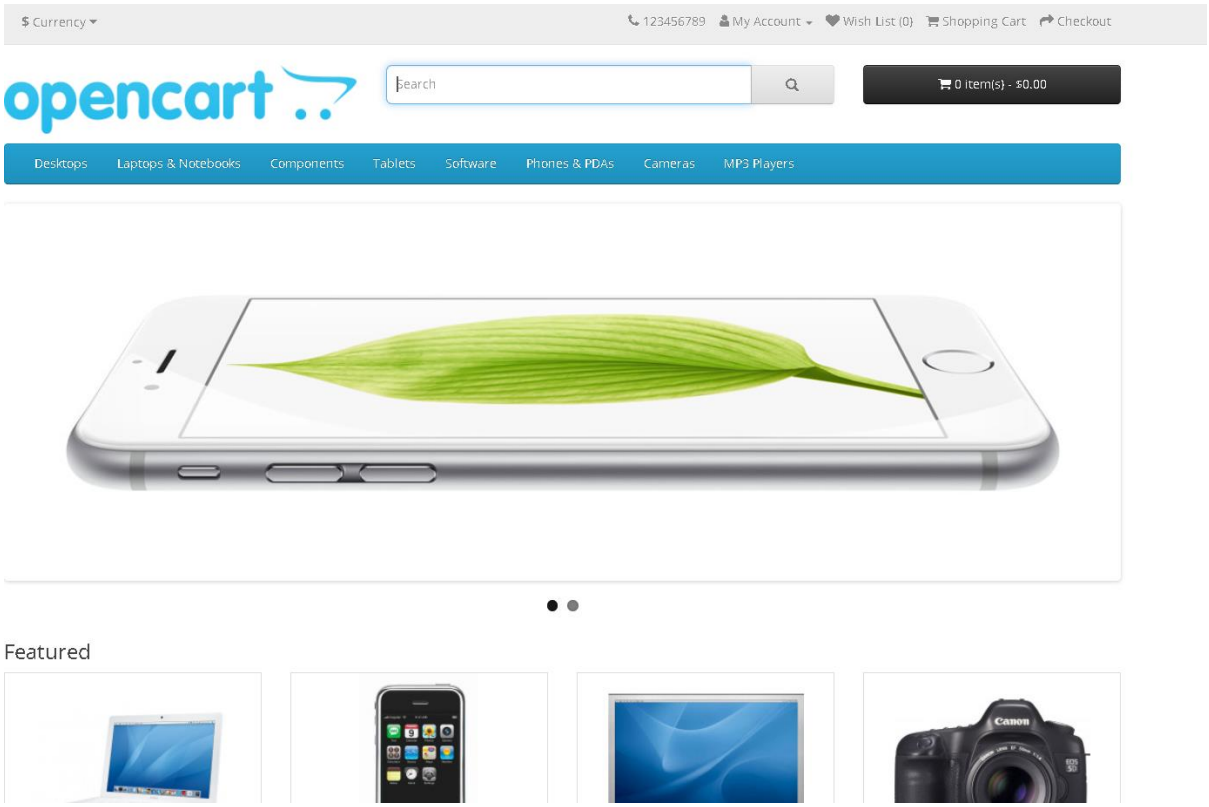
3. Inclusions

The testing will include:

- Functional testing of all core features.
- Usability testing to assess ease of use.
- Compatibility testing on specified browsers and devices.
- Basic performance testing for key pages.


Account
Login
New Customer
Register Account
By creating an account you will be able to shop faster, be up to date on an order's status, and keep track of the orders you have previously made.
Continue
Returning Customer
I am a returning customer
E-Mail Address
E-Mail Address
Password
Password
Forgotten Password
Login
Login
Register
Forgotten Password
My Account
Address Book
Wish List
Order History
Downloads
Recurring payments
Reward Points
Returns
Transactions
Newsletter


Account
Register
Register Account
If you already have an account with us, please login at the login page.
Your Personal Details
* First Name
First Name
* Last Name
Last Name
* E-Mail
E-Mail
* Telephone
Telephone
Your Password
* Password
Password
* Password Confirm
Password Confirm
Newsletter
Subscribe
Yes
No
I have read and agree to the Privacy Policy
Continue
Login
Register
Forgotten Password
My Account
Address Book
Wish List
Order History
Downloads
Recurring payments
Reward Points
Returns
Transactions
Newsletter



4. Test Environments

Testing will be conducted in the following environment(s):

- The **operating systems** and versions that will be used for testing, such as Windows 10, macOS, or Linux.
- The browsers and versions that will be tested, such as Google Chrome, Mozilla Firefox, or Microsoft Edge.
- The device types and screen sizes that will be used for testing, such as desktop computers, laptops, tablets, and smartphones.
- The network connectivity and bandwidth that will be available for testing, such as Wi-Fi, cellular, or wired connections.
- The hardware and software requirements for running the test cases, such as a specific processor, memory, or storage capacity.
- The security protocols and authentication methods that will be used to access the test environment, such as passwords, tokens, or certificates.
- The access permissions and roles of the team members who will be using the test environment, such as testers, developers, or stakeholders.

Name	Env url
QA	qa.opencart.com
Pre Prod	preprod. opencart.com
UAT	uat. opencart.com
Prod	app. opencart.com

- Windows 10 – Chrome, Firefox and Edge
- Mac OS – Safari Browser
- Android Mobile OS – Chrome
- iPhone Mobile OS - Safari

5. Defect Reporting Procedure

- All identified defects will be logged in a designated defect tracking system ([Jira]).
- Each defect report will include:
    - A unique defect ID.
    - A clear and concise summary of the defect.
    - Detailed steps to reproduce the defect.
    - Expected result.
    - Actual result.
    - Severity (e.g., Critical, High, Medium, Low).
    - Priority (e.g., Urgent, High, Medium, Low).
    - Environment in which the defect was found.
    - Screenshot or video recording (if applicable).
    - Assigned tester.
- Defect triage meetings will be held regularly with the development team to review, prioritize, and assign defects.
- The defect lifecycle will be tracked (e.g., New, Open, In Progress, Fixed, Verified, Closed).

6. Test Strategy

We will employ a combination of manual testing techniques. Automation testing may be considered in later phases.

- Manual Testing: Testers will execute predefined test cases and perform exploratory testing to identify defects in functionality, usability, and compatibility.
- Functional Testing: Verifying that each feature of the website operates as expected based on requirements.
- Usability Testing: Evaluating the ease of navigation, clarity of information, and overall user-friendliness.
- Compatibility Testing: Ensuring the website functions correctly on the following browsers: [Specify browsers, e.g., Chrome (latest), Firefox (latest), Safari (latest), Edge (latest)] and devices: [Specify devices and operating systems, e.g., Windows desktops, macOS laptops, Android phones (various screen sizes), iOS iPhones (various screen sizes)].
- Basic Performance Testing: Measuring the load time of key pages (homepage, product listing, product detail, cart, checkout) using browser developer tools or simple online tools.
- Basic Security Testing: Verifying that sensitive pages (login, checkout) use HTTPS and checking for basic input validation.

7. Test Schedule

- Test Planning & Test Case Design: [Start Date] - [End Date]
- Test Environment Setup & Data Preparation: [Start Date] - [End Date]
- Test Execution Phase 1 (Core Functionality): [Start Date] - [End Date]
- Defect Fixing & Retesting: [Start Date] - [End Date] (Iterative)
- Test Execution Phase 2 (Usability, Compatibility, Basic Performance & Security): [Start Date] - [End Date]
- Final Regression Testing: [Start Date] - [End Date]
- Test Summary Report Preparation: [Start Date] - [End Date]

Note: This schedule is tentative and may be adjusted based on project progress and defect resolution.

8. Test Deliverables

The following deliverables will be produced as part of the testing process:

- Test Plan Document (this document)
- Test Case Specification Document
- Test Data

- Test Execution Reports (periodic updates)
- Defect Reports
- Test Summary Report

9. Entry and Exit Criteria

Entry Criteria:

- The test environment is set up and accessible.
- The build under test has been deployed to the test environment.
- Test data required for execution is prepared and available.
- The testing team has access to relevant documentation (requirements, design specifications).
- Key functionalities identified in the scope are deemed stable enough for initial testing.
- Test cases for the planned test cycle are prepared and reviewed.

Exit Criteria:

- All planned test cases for the current test cycle have been executed.
- A predefined percentage ([Specify percentage, e.g., 95%]) of critical and high-priority defects have been resolved and retested successfully.
- Test execution reports for the current cycle have been completed and reviewed.
- Stakeholder approval (if required for a specific phase) has been obtained.

10. Test Execution

Entry Criteria:

- Entry criteria for the specific test cycle (as defined above) are met.
- Testers have been assigned test cases.
- Any specific instructions or guidelines for the test cycle have been communicated to the team.

Exit Criteria:

- All assigned test cases for the current cycle have been executed with results recorded.
- All identified defects during the cycle have been logged.
- Test execution status for the cycle has been reported.
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11. Test Closure

Entry Criteria:

- All planned testing activities outlined in this test plan have been completed.
- All critical and high-priority defects have been resolved and verified.
- All test deliverables have been completed and approved.
- Stakeholder sign-off on the overall testing effort has been obtained.

Exit Criteria:

- Formal test closure documentation has been completed and archived.
- Lessons learned from the testing process have been documented for future projects.
- The test environment can be decommissioned or repurposed.

12. Tools

The following tools may be used during the testing process:

- Test Management Tool: Jira with Google Sheets for managing test cases and tracking execution.
- Defect Tracking Tool: Jira for logging and managing defects.
- Browser Developer Tools: (Built-in to Chrome, Firefox, Safari, Edge) for inspecting elements, debugging, and basic performance analysis.
- Screen Capture/Recording Tool: snippet] for documenting defects.

13. Risks and Mitigations

Risk	Mitigation
Incomplete or unclear requirements	Close collaboration with stakeholders and development team for clarification.
Delays in development impacting test schedule	Early involvement of the testing team and proactive communication.
Unstable test environment	Work closely with the infrastructure team to ensure environment stability.
Insufficient test data	Dedicate time to create comprehensive and realistic test data.
Late discovery of critical defects	Prioritize testing of core functionalities early in the cycle.
Lack of resources (personnel or tools)	Escalate resource needs to project management in a timely manner.

14. Approvals

Name	Title	Signature	Date
	Test Lead		

Project Manager
Development Lead
Stakeholder