

Test Plan Document

Project: NopCommerce Full STLC (manual + automation)

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Modules: Homepage, Register Page, Login Page, Wishlist Page, Cart Page

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1. Introduction

The purpose of this Test Plan is to define the strategy, scope, objectives, resources, schedule, and approach for testing the **Homepage, Login Page, Register Page, Wishlist Page, Cart Page Module** of the NopCommerce application. This ensures that the functionality works as expected and meets business requirements before release.

2. Objectives

- Validate all core functionalities of the selected nopCommerce modules (Home, Login, Register, Wishlist, Cart).
 - Identify functional, UI, workflow, and usability defects.
 - Verify system behavior for negative inputs and boundary conditions.
 - Ensure complete requirement coverage through scenarios and test cases.
 - Build and maintain a reliable regression automation suite.
 - Focus on high-risk features to ensure stable product behavior.
 - Confirm consistent behavior across the supported browser and environment.
 - Provide clear, structured, and actionable test reports for stakeholders.
 - Validate non-functional aspects such as performance, usability, and security.
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3. Scope of Testing

3.1 In Scope:

The following modules and functionalities are included in the scope of testing:

- Home Page
- Login Page
- Register Page
- Wishlist Page
- Cart Page
- Basic UI validation for selected pages
- Functional, Negative, Boundary and Regression testing for the above modules

3.2 Out of Scope:

The following areas and functionalities are excluded from testing in this phase:

- nopCommerce Admin Panel
- Payment Gateway and Checkout process
- API Testing (REST/SOAP services)
- Mobile or Responsive Testing
- Cross-browser testing (only Chrome supported)
- Performance/Load testing
- Database-level validation (no direct DB checks)

4. Testing Approach

- **4.1 Manual Testing Approach**
 - Perform **Functional Testing** to verify all features behave as expected according to SRS.
 - Conduct **Negative Testing** to validate system behavior against invalid, unexpected, and edge-case inputs.
 - Perform **Validation Testing** to ensure all field-level and form-level validations work correctly.
 - Carry out **Usability Testing** to check layout, navigation flow, readability, and overall user experience.
 - Execute **Regression Testing** after fixes or updates to ensure that existing functionalities remain stable.
 - Document defects with proper steps, expected/actual results, and attach screenshots where needed.
- **4.2 Automation Testing Approach**
 - Build automation scripts using **Selenium WebDriver + TestNG + POM (Page Object Model)** to ensure maintainability and scalability.
 - Follow a **modular, page-wise automation structure** where each page has separate classes and methods.
 - Implement **Data-Driven Testing** using TestNG DataProviders or external data sources to test multiple input combinations.
 - Integrate **Extent Reports / Allure Reports** to generate detailed, interactive test reports.

- Maintain scripts in a **GitHub repository**, ensuring version control and easy collaboration.
 - Automate only **stable and repetitive test cases**, focusing on regression and critical-path scenarios.
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5. Test Deliverables

- SRS Document
 - Test Plan
 - Test Scenarios
 - Test Cases
 - Test Data
 - Bug Report
 - Test Execution Report
 - Test Summary Report
 - Automation Suite
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6. Entry Criteria

- Requirements are finalized
 - Test environment is ready
 - Test data is available
 - Application build is stable
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7. Exit Criteria

- All high and medium priority test cases executed
 - No open critical bugs
 - Test summary report prepared
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8. Risks & Mitigation

- Application downtime → Inform dev team
 - Unstable build → Delay execution
 - Environment issues → Retry or switch browser/system
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9. Tools Used

Manual Testing

- Ms Word
- Ms Excel

Automation Testing

- Selenium WebDriver
 - TestNG
 - Java
 - Maven
 - POM
 - Allure/Extent Report
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10. Roles & Responsibilities

- **QA Tester:** Manual Testing, Documentation, Test Case Design
 - **Automation Engineer:** Script development, Framework maintenance
 - **Reviewer:** Self-review in this project
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11. Test Environment

- Browser: Chrome Latest Version
- OS: Windows 10/11
- AUT: nopCommerce Public Test Environment