Test Strategy for nopCommerce Demo Website

# 1. Introduction

This Test Strategy defines the overall testing approach for the nopCommerce demo website (https://demo.nopcommerce.com/). It outlines the scope, objectives, methodologies, resources, tools, and risk management for testing activities.

# 2. Scope

In Scope:  
- Functional Testing (user registration, login, product catalog, cart, checkout)  
- Usability Testing  
- Cross-browser Testing  
- Responsive Testing on mobile and desktop  
- Regression Testing  
  
Out of Scope:  
- Integration with real payment gateways  
- Performance/load testing at production scale

# 3. Test Objectives

The key objectives are:  
- Validate that core e-commerce flows function correctly  
- Ensure usability and user experience are smooth  
- Verify compatibility across browsers and devices  
- Detect and report defects early  
- Provide confidence in system stability

# 4. Testing Levels

The following test levels will be performed:  
- Unit Testing (by developers)  
- System Testing (by QA team)  
- Regression Testing (after fixes/updates)  
- User Acceptance Testing (simulated by QA team with demo data)

# 5. Test Types

The following types of testing will be executed:  
- Functional Testing  
- Usability Testing  
- Cross-browser Testing  
- Mobile Responsiveness Testing  
- Security Testing (basic login, session, data validation)  
- Regression Testing

# 6. Test Approach

Manual testing will be the primary method. Test cases will be designed from requirements and user workflows. Exploratory testing will complement scripted tests. Regression testing will be performed after each major change. Compatibility testing will be done on Chrome, Firefox, and Edge.

# 7. Test Environment

Testing will be conducted in the following environment:  
- Browsers: Chrome (latest), Firefox (latest), Edge (latest)  
- Operating Systems: Windows 10/11, macOS  
- Mobile devices: Android, iOS browsers  
- Test data: Dummy accounts, orders, and sample products

# 8. Tools

The following tools will be used:  
- Test case management: Excel / Google Sheets  
- Defect tracking: Jira / Bugzilla (simulated)  
- Browser developer tools  
- Responsive design testing tools

# 9. Roles and Responsibilities

Test Manager: Oversees testing, approves deliverables  
Test Engineers: Design and execute test cases, log defects  
Developers: Fix defects, conduct unit tests  
Project Manager: Approves final release readiness

# 10. Risk Management

Risks:  
- Website downtime or unavailability  
- Browser compatibility issues  
- Limited access to demo data  
- Ambiguous requirements  
  
Mitigation:  
- Use backup demo environments  
- Prioritize testing on major browsers  
- Create controlled test data  
- Requirement walkthroughs with stakeholders

# 11. Entry and Exit Criteria

Entry Criteria:  
- Test environment setup completed  
- Requirements finalized  
- Test data prepared  
  
Exit Criteria:  
- All planned test cases executed  
- No high severity defects open  
- Test summary report approved

# 12. Deliverables

The following deliverables will be produced:  
- Test Strategy Document  
- Test Plan  
- Test Cases  
- Test Execution Report  
- Defect Logs  
- Test Summary Report

# 13. Approval

Prepared by: QA Team  
Reviewed by: Test Manager  
Approved by: Project Manager