**Test Plan Document nopCommerce Website**

**Website:** [**https://demo.nopcommerce.com**](https://demo.nopcommerce.com?utm_source=chatgpt.com) **Model: Agile SDLC  
Document Type: Test Plan**

**Change Logs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Change Date** | **Author** | **Description** |
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**1. Introduction**

The test plan defines the QA strategy for validating all key features of the nopCommerce platform, covering both customer-facing storefront and admin portal functionality.

**1.1 Scope**

**1.1.1 In Scope**

* User registration, login, and profile updates
* Product catalog navigation and filtering
* Cart and checkout processes
* Payment and order confirmation
* Admin: product/category management
* Order processing and status updates
* User reviews and wishlists
* Mobile responsiveness and browser compatibility

**1.1.2 Out of Scope**

* Database migration testing
* Load testing of backend services
* In-depth third-party payment gateway fraud detection
* Manual language translations (unless in scope of sprint)

**1.2 Quality Objectives**

Deliver a stable and secure nopCommerce website that allows users to:

* Browse, compare, and purchase products with ease
* Admins to manage products, orders, and reports efficiently
* Achieve 95%+ pass rate in test cases before release
* Eliminate all critical and high-severity defects

**1.3 Roles and Responsibilities**

|  |  |
| --- | --- |
| **Role** | **Responsibilities** |
| Test Manager | Define test scope, monitor progress, sign-off |
| QA Engineers | Execute tests, log bugs, regression testing |
| UI Testers | Validate UI layouts, responsiveness, and visuals |
| Automation Testers | Build/maintain Selenium-based test scripts |
| Developers | Fix and explain defects, participate in triage |
| Product Owner | Verify acceptance criteria and business rules |

**2. Test Methodology**

**2.1 Overview**

This project follows the Agile SDLC, with bi-weekly sprints. Testing is embedded into each sprint for continuous feedback and quicker release cycles.

**2.2 Test Levels**

* Unit Testing – Done by developers
* Integration Testing – Cart, checkout, payment gateway
* System Testing – End-to-end flow
* Regression Testing – For every build
* UAT – Final testing before production push

**2.3 Bug Triage**

* Bugs prioritized by severity (Critical > High > Medium > Low)
* Daily triage during active sprints
* Bugs discussed with Dev/QA/Product for fixes and timelines

**2.4 Suspension and Resumption**

**Testing is suspended if:**

* The build is unstable or incomplete
* Core flows like login or payment are broken
* Environments are down

**Testing resumes when:**

* Stable build is deployed
* Core flows work
* All test data and access are restored

**2.5 Test Completion Criteria**

* 100% execution of planned test cases
* No Critical or High severity bugs open
* Automation suite pass rate ≥ 95%
* Product Owner signs off on the sprint

**2.6 Sprint-wise Testing Plan**

|  |  |  |
| --- | --- | --- |
| **Sprint** | **Area** | **Key Features** |
| Sprint 1 | Login, Registration | New user signup, login, password recovery |
| Sprint 2 | Products & Categories | Product browsing, filtering, sorting |
| Sprint 3 | Cart & Checkout | Add to cart, apply coupon, checkout |
| Sprint 4 | Payments & Orders | Payment validation, invoice generation |
| Sprint 5 | Admin Module | Product management, order updates |
| Sprint 6 | Reviews, Reports | Add review, view sales reports |

**2.7 Sample Test Scenarios**

|  |  |
| --- | --- |
| **ID** | **Test Scenario** |
| TS01 | User registration with valid data |
| TS02 | Login with incorrect password |
| TS03 | Add item to cart and checkout |
| TS04 | Apply discount coupon during checkout |
| TS05 | Admin updates product stock |
| TS06 | Payment failure and retry validation |
| TS07 | User submits product review |
| TS08 | Admin views order report |

**3. Test Deliverables**

* Test Plan
* Test Cases (manual + automation)
* Bug Reports
* Daily Execution Reports
* Automation Scripts
* UAT Sign-Off
* Sprint Summary Report
* Final QA Sign-off Document

**4. Resources & Environment**

**4.1 Testing Tools**

|  |  |
| --- | --- |
| **Category** | **Tools Used** |
| Requirement Mgmt | JIRA, Confluence |
| Bug Tracking | JIRA, Azure DevOps |
| Test Automation | Selenium, TestNG, Cucumber |
| API Testing | Postman, RestAssured |
| Performance | JMeter |
| CI/CD | Jenkins, GitHub Actions |
| Reporting | Allure, Extent Reports |
| Cross-browser | BrowserStack |

**4.2 Test Environment**

|  |  |
| --- | --- |
| **Environment** | **Description** |
| DEV | Internal build for early integration |
| QA | Functional, regression, and automation |
| UAT | Final testing with stakeholders |
| PROD | Live deployment (post-sign-off) |

**Minimum Setup:**

* Hardware: Intel i5+, 16GB RAM, SSD
* OS: Windows 10/11, macOS
* Browsers: Chrome, Edge, Firefox (latest)
* DB Clients: SQL Server, MySQL Workbench
* Tools: JDK 11, Node.js (if JS-based components used)

**5. Terms / Acronyms**

|  |  |
| --- | --- |
| **Term** | **Definition** |
| QA | Quality Assurance |
| AUT | Application Under Test |
| UAT | User Acceptance Testing |
| CI/CD | Continuous Integration/Continuous Delivery |
| API | Application Programming Interface |
| JIRA | Issue Tracking System |
| UI | User Interface |
| BDD | Behavior Driven Development |

**6. Entry & Exit Criteria**

**Entry Criteria:**

* User stories are finalized and accepted
* Test data is available
* Build is deployed to QA

**Exit Criteria:**

* All critical test cases executed
* No showstopper bugs remain
* Product Owner approval received

**7. Assumptions & Dependencies**

* Test environments are properly configured and stable
* All dependencies from Dev (APIs, DB access) are ready before QA starts
* Clear and signed-off acceptance criteria from the Product Owner
* Tools and licenses available as per testing needs

**8. Review and Approval**

|  |  |
| --- | --- |
| **Stage** | **Reviewed/Approved By** |
| Test Plan Review | Test Lead / QA Manager |
| Test Execution | QA Engineers + Automation |
| UAT Approval | Product Owner / Stakeholders |
| Final Sign-Off | QA Manager + Project Manager |