**Test Plan for nopCommerce User Account and Address Management**

**Application URL:** https://demo.nopcommerce.com/

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**1. Test Plan Identifier**

TP-nopCommerce-user-management-2025-v1

**2. Introduction**

This plan covers the features available to a logged-in user within their account dashboard ("My Account"). It focuses on managing personal information, addresses, and order history.

**3. Test Items**

Viewing and updating customer info (gender, DOB, email).

Managing addresses (Add, Edit, Delete).

Changing password.

Viewing order history and downloading invoices.

Managing product reviews.

**4. Features to be Tested**

Customer Info:

Updating first name, last name, and email.

Saving changes and verifying persistence.

Address Management:

Adding a new address with all mandatory fields.

Editing an existing address.

Deleting an address.

Setting a default address.

Change Password:

Successful password change with correct old password.

Failure with incorrect old password.

Order History:

Viewing details of a previous order.

Clicking "Download PDF Invoice".

Social Media:

Verifying the presence of social media sharing links (e.g., Facebook, Twitter) on product pages.

**5. Features Not to be Tested**

The actual functionality of external social media platforms. We only test that the links exist and are clickable, not that they correctly post to a feed.

**6. Approach**

Manual Testing: Initial exploratory testing and validation of all scenarios.

Automation Testing (Primary): All test scenarios will be automated using the defined tech stack.

Framework: Selenium WebDriver with Java.

Pattern: Page Object Model (POM) for maintainability.

BDD: Scenarios will be written in Gherkin in .feature files.

Execution: Tests will be grouped (e.g., @login, @regression) and executed using TestNG, capable of parallel runs.

Data-Driven Testing: Test data will be externalized using @CucumberOptions or Excel/JSON files.

Cross-Browser Testing: Automated tests will be run on Chrome, Firefox, and Edge browsers.

Reporting: Extent Reports will be generated after each execution cycle for analysis.

**7. Item Pass/Fail Criteria**

Pass: The actual result of the test case matches the expected result defined in the Gherkin scenario.

Fail: The actual result deviates from the expected result, the test script throws an unhandled exception, or a defect is found.

**8. Suspension Criteria and Resumption Requirements**

Suspension: Testing will be suspended if the nopCommerce demo environment is unavailable for more than 2 hours or if a critical bug in the build blocks the execution of over 70% of the test cases.

Resumption: Testing will resume once the environment is stable again or a new build with the critical fix is deployed.

**9. Test Deliverables**

This Test Plan document.

Manual Test Cases (in JIRA/Excel).

Automated Test Assets:

Cucumber Feature Files (e.g., login.feature, registration.feature).

Step Definition classes.

Page Object classes (e.g., LoginPage.java, RegistrationPage.java).

TestNG XML configuration files.

Test Execution Results and Extent Reports.

Defect Reports logged in JIRA.

**10. Environmental Needs**

Application: nopCommerce Demo Website (https://demo.nopcommerce.com/).

Test OS: Windows 10/11.

Browsers: Chrome, Firefox, Edge

Automation Environment:

JDK 17.

Maven 3.8.11

IDE: Eclipse.

Selenium WebDriver & Browser Drivers.

Version Control: GitHub repository.

Project Management: JIRA for task and defect tracking.

**11. Responsibilities (Aligned with Capstone Roles)**

Product Owner (PO): Prioritize which authentication features to test first. Sign off on requirements.

Scrum Master (SM): Facilitate daily stand-ups, remove blockers in environment setup or test data creation.

Developers: Implement the automation scripts, page objects, and framework utilities. Integrate with Extent Reports.

Testers: Design manual test cases, verify automation results, and log detailed defects in JIRA.

**12. Schedule**

**Activity Timeline**

Test Planning & Case Design Day 1

Automation Script Development Day 6-7

Test Execution & Bug Logging Day 9

Retest & Cross-Browser Execution Day 12

**13. Risks and Contingencies**

No Risks

**14. Approvals**

Test Lead: John Doe

Product Owner: John Doe