Software Requirements Specification (SRS)

Project: NopCommerce

Modules: Home, Login, Register, Wishlist, Cart

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1. Introduction

1.1 Purpose
The purpose of this SRS document is to define the functional and non-functional requirements for selected modules of the nopCommerce application. It supports Manual + Automation Testing for Home Page, Login Page, Register Page, Wishlist, and Cart Page.

1.2 Scope
The scope includes understanding features, expected behavior, validations, and business rules for selected modules. This SRS will be used to create test scenarios, test cases, and automation scripts.

1.3 Intended Audience
This document is intended for QA Testers, Automation Engineers, Developers, and Reviewers.

2. Overall Description

2.1 Product Overview
nopCommerce is an open-source e-commerce platform allowing users to browse products, register, log in, manage wishlist, and cart items.

2.2 User Classes
- Guest User: Can browse products but cannot use wishlist.

- Registered User: Can login, use wishlist, and access cart functionalities.

2.3 Assumptions
- Application is accessible.

- Test data will be created by QA.

- Testing is done mainly on Chrome browser.

3. Functional Requirements

3.1 Home Page
- User can browse categories.

- Search bar accepts keywords.

- Search results match input.

- Product details can be viewed.

- Navigation menu is clickable.

3.2 Login Page
- Valid login should authenticate user.

- Invalid email format shows error.

- Incorrect credentials show validation message.

- Password is masked.

- Remember Me should work.

3.3 Register Page
- User can register with valid details.

- Mandatory fields must be filled.

- Email must be unique.

- Invalid email shows error.

- Password & confirm password must match.

3.4 Wishlist
- Logged-in user can add/remove wishlist items.

- Wishlist count updates.

- Guest user cannot access wishlist.

- Guest adding to wishlist should redirect to login.

3.5 Cart Page
- User can add items to cart.

- Quantity can be changed.

- Price updates automatically.

- Removing item updates cart.

- Total amount calculation should be accurate.

4. Non-Functional Requirements

4.1 Performance
- Pages should load within 2–4 seconds.

- Search results should appear quickly.

4.2 Usability
- UI must be clean and user-friendly.

4.3 Security
- Password must be encrypted.

- Wishlist accessible only to logged-in users.

4.4 Compatibility
- Application should work on latest Chrome browser.

5. Constraints
- No payment or checkout testing.

- No admin module testing.

- No API testing.

6. Dependencies
- Server availability.

- Stable test environment.

- Valid user accounts.