

# Software Requirements Specification (SRS)

**Project Name:** Register Page Module(nopCommerce demo)

**Version:** 1.0

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## 1. Introduction

### 1.1 Purpose

The purpose of this document is to define the functional and non-functional requirements for the **Register Page** of the nopCommerce demo application. This SRS will serve as a reference for testers to design and execute test cases and for developers to ensure the system meets expected requirements.

### 1.2 Scope

- **Application Under Test (AUT):** nopCommerce Demo Register Page
- **Objective:** Validate that the registration process works correctly with all required fields, validations, and optional features (e.g., newsletter subscription).
- **Modules Covered:** Register Page only.
- **Testing Areas:** Functional Testing, UI Testing, Validation Testing, Negative Testing, and Usability Testing.

### 1.3 Definitions, Acronyms, Abbreviations

- **SRS:** Software Requirements Specification
  - **AUT:** Application Under Test
  - **UI:** User Interface
  - **UX:** User Experience
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## 2. Overall Description

### 2.1 Product Perspective

The Register Page allows new users to create an account by providing mandatory and optional details. Once registered, the user can log in and access other features of the application.

2.2 User Characteristics

- Users are expected to have basic computer literacy.
- Users may register from different geographic locations and devices.
- No advanced technical knowledge is required.

2.3 Constraints

- Internet connection required.
- Works best on modern browsers (Chrome, Edge, Firefox).
- Fields must comply with nopCommerce default validation rules.

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3. Functional Requirements

ID	Requirement	Description / Expected Behavior
FR-01	First Name	Accepts alphabetic characters; mandatory field
FR-02	Last Name	Accepts alphabetic characters; mandatory field
FR-03	Gender	Allows user to select “Male” or “Female”; optional
FR-04	Email	Accepts valid email format (e.g., user@example.com); must be unique
FR-05	Company Name	Optional field; accepts text input
FR-06	Newsletter	Checkbox field; optional, default checked
FR-07	Password	Minimum 6 characters, must include uppercase, lowercase, numeric, and special character
FR-08	Confirm Password	Must exactly match Password field
FR-09	Register Button	Submits the form; successful registration displays confirmation message

FR-10	Error Messages	Display appropriate error messages when validations fail
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#### 4. Non-Functional Requirements

ID	Requirement	Description
NFR-01	Performance	Page should load within 2 seconds on a standard internet connection
NFR-02	Usability	Form labels and error messages must be clear and user-friendly
NFR-03	Compatibility	Should work seamlessly across Chrome, Firefox, and Edge
NFR-04	Security	Password input must be masked; user data must not be exposed
NFR-05	Accessibility	Input fields must be properly labeled for screen readers

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#### 5. Use Cases

##### Use Case 1: Successful Registration

**Actors:** User

**Precondition:** Register page is accessible

**Steps:**

1. User opens Register Page
2. Fills in valid First Name, Last Name, Email, Password, Confirm Password
3. (Optional) Selects/unselects Newsletter checkbox
4. Clicks "Register"

**Expected Result:** Account is created successfully; confirmation message displayed

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##### Use Case 2: Invalid Email

**Steps:** Enter abc@ in Email field -> Click Register

**Expected Result:** Error message: "Wrong email"

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### **Use Case 3: Password Mismatch**

**Steps:** Enter different values in Password and Confirm Password → Click Register

**Expected Result:** Error message: "The password and confirmation password do not match."

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### **Use Case 4: Newsletter Subscription**

**Steps:** Keep Newsletter checked → Register

**Expected Result:** User account created with newsletter subscription active

**Steps:** Uncheck Newsletter → Register

**Expected Result:** User account created without newsletter subscription

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## **6. Assumptions and Dependencies**

- User has a stable internet connection.
  - Application server is up and running.
  - Validations follow standard nopCommerce business rules.
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## **7. References**

- nopCommerce Demo Register Page – <https://demo.nopcommerce.com/register>
- IEEE Standard for SRS Documentation