Software Requirements Specification (SRS): Online Bookstore

1. Introduction

1.1 Purpose

The purpose of this SRS document is to define the requirements for the development of an online bookstore. This SRS aims to provide a platform for users to browse, search, and purchase books online.

1.2 Scope

This SRS document will include features such as user registration, browsing categories, searching for books, viewing book details, adding books to the cart, and completing the purchase. It will also have an administrative interface for managing books, users, and orders.

1.3 Definitions, Acronyms, and Abbreviations (ADD MORE\*\*\*\*\*\*)

UI: User Interface

CMS: Content Management System

API: Application Programming Interface

2. System Overview

2.1 System Description

The online bookstore will be a web-based platform accessible through a web browser, it will also have a responsive design so that no matter the device the design will be an acceptable standard. It will support user registration, authentication, and authorization mechanisms for security purposes. The website will maintain a catalog of books with details such as title, author, genre, and price.

2.2 System Features

User Registration and Authentication

Book Browsing and Searching

Book Details and Reviews

Shopping Cart

Order Processing

User Account Management

Admin Panel for Content Management

3. Functional Requirements

3.1 User Registration and Authentication

Users can register for an account by providing information (name, email, age, and book genre interest).

The system will authenticate users during login.

The system will validate user’s email.

3.2 Book Browsing and Searching

Users can browse books by categories (fiction, non-fiction, genres, etc.).

A search feature shall be available for users to find specific books.

3.3 Book Details and Reviews

Users can view detailed information about a book, including author, description, and price.

Users can submit reviews and ratings for books.

3.4 Shopping Cart

Users can add books to the shopping cart.

The cart shall display the total price and allow users to modify its contents.

3.5 Order Processing

Users can proceed to checkout and complete the purchase.

The system shall generate an order confirmation with a unique order ID.

3.6 User Account Management

Users can update their profiles, including personal information and password.

3.7 Admin Panel for Content Management

Admins can add, edit, or remove books from the catalog.

Admins can manage user accounts and view order details.

4. Non-functional Requirements

4.1 Performance

The system should handle concurrent user sessions without performance degradation.

4.2 Reliability

The system should be available 99% of the time.

4.3 Security

User passwords will be securely stored using encryption.

Transactions will be secured using HTTPS.

4.4 Scalability

The system should accommodate a growing number of books, users, and transactions.

5. System Constraints

The system will be compatible with modern web browsers (Chrome, Firefox, Safari).

The development will use a technology stack including HTML5, CSS3, JavaScript, and a backend framework Node.JS

6. User Interfaces

The UI will be intuitive and response.

Mobile responsiveness will be ensured for a seamless experience on various devices.

7. Appendix

7.1 Glossary

CMS: Content Management System

API: Application Programming Interface

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