Software Requirements Specification (SRS) Document for Books.com

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**Introduction**

* 1. Purpose

The purpose of this Software Requirements Specification (SRS) document is to describe the requirements for the Books.com website. This document will serve as a guide for the development team to create a system that meets the needs of its users.

* 1. Scope

The scope of this project is to develop a website that allows users to buy and sell items online. The website will provide a platform for users to create accounts, browse products, search for specific items, bid on products, purchase products, and leave feedback.

1.3 Definitions, acronyms, and abbreviations

* Books.com: An online marketplace where users can buy and sell products.
* SRS: Software Requirements Specification.
  1. References

There are no specific references for this document.

* 1. Overview

This SRS document provides an overview of the Books.com website, including the purpose, scope, and requirements for the system. The document is divided into three main sections: an overall description of the system, specific requirements for the system, and an appendix.

**Overall Description**

2.1 Product Perspective

The Books.com website is an online marketplace that connects buyers and sellers from all over the world. The website is designed to be user-friendly and easy to navigate. It is accessible to anyone with an internet connection.

2.2 Product Features

The Books.com website will provide the following features:

* User account creation and management
* Buying and bidding on products
* Selling products
* Payment processing
* Searching for products
* Feedback system
* Communication system

2.3 User Classes and Characteristics

The Books.com website will cater to the following user classes:

* Buyers: users who are interested in purchasing products on the website.
* Sellers: users who are interested in selling products on the website.

2.4 Operating Environment

The Books.com website will be accessible via the internet using a web browser. The website will be optimized for use on desktop and mobile devices.

2.5 Design and Implementation Constraints

The Books.com website must be designed to be scalable and able to handle a high volume of users and transactions. The website must also be secure and protect user data.

2.6 User Documentation

The Books.com website will provide user documentation in the form of an FAQ page and a help center.

2.7 Assumptions and Dependencies

It is assumed that users will have a basic understanding of how to use a web browser and navigate websites. The Books.com website will depend on third-party payment processors to handle payment transactions.

**Specific Requirements**:

3.1 External Interface Requirements

3.1.1 User Interfaces

The Books.com website will have a user interface that is easy to navigate and use. The interface will include the following elements:

* A navigation bar with links to different sections of the website.
* A search bar for users to search for products.
* A product listing page that displays items for sale.
* A product details page that provides more information about the item.
* A bidding system that allows users to bid on products.
* A payment processing system that allows users to make purchases.

3.1.2 Hardware Interfaces

The Books.com website will be accessible via any device with an internet connection.

3.1.3 Software Interfaces

The Books.com website will integrate with third-party payment processors to handle payment transactions.

3.2 Functional Requirements

3.2.1 User Management

The Books.com website will allow users to create and manage their accounts. Users will be able to:

* Create an account using an email address and password.
* Edit their profile information.
* Add a payment method for purchases.
* View their transaction history.
* Leave feedback for other users.

3.2.2 Buying

The Books.com website will allow users to browse products and make purchases. Users will be able to:

* Search for products using keywords and filters.
* View product listings and details.
* Place bids on products.
* Purchase products using a payment method linked to their account.
* View their purchase history.

3.2.3 Selling

The Books.com website will allow users to sell products on the platform. Users will be able to:

* Create product listings with details and images.
* Set prices for products.
* Respond to messages from potential buyers.
* View their sales history.

3.2.4 Payment

The Books.com website will integrate with third-party payment processors to handle payment transactions. The payment system will be secure and protect user data.

3.2.5 Search

The Books.com website will provide a search function that allows users to search for products based on keywords and filters.

3.2.6 Feedback

The Books.com website will allow users to leave feedback for other users after completing a transaction. Feedback will be used to rate sellers and buyers and provide transparency for other users.

3.2.7 Communication

The Books.com website will provide a messaging system that allows users to communicate with each other about transactions and products.

3.3 Performance Requirements

The Books.com website must be able to handle a high volume of users and transactions. The website must be available 24/7 with minimal downtime. The website must also load quickly and be responsive to user actions.

3.4 Security Requirements

The Books.com website must be secure and protect user data. The website must use encryption to protect sensitive information such as passwords and payment data. The website must also have measures in place to prevent fraud and ensure that transactions are secure.

3.5 Software Quality Attributes

3.5.1 Usability

The Books.com website must be user-friendly and easy to navigate. The website must provide clear instructions and guidance for users.

3.5.2 Reliability

The Books.com website must be reliable and perform as expected. The website must be available 24/7 with minimal downtime.

3.5.3 Availability

The Books.com website must be available 24/7 with minimal downtime. The website must also be scalable to handle a high volume of users and transactions.

3.5.4 Maintainability

The Books.com website must be easy to maintain and update. The website must be designed with modular components that can be easily updated or replaced.

3.5.5 Portability

The Books.com website must be accessible on different devices and platforms. The website must be optimized for performance on different browsers and operating systems.

**Non-Functional Requirements**

4.1 Legal Requirements

The Books.com website must comply with all relevant laws and regulations, including those related to data privacy, intellectual property, and online commerce.

4.2 Compatibility

The Books.com website must be compatible with a range of browsers and operating systems to ensure that it is accessible to the widest possible audience.

4.3 Performance

The Books.com website must be able to handle a high volume of traffic and transactions without experiencing significant slowdowns or downtime.

4.4 Security

The Books.com website must be secure and protect user data from unauthorized access or misuse.

4.5 Scalability

The Books.com website must be able to scale up or down to accommodate changes in traffic volume or user demand.

**Constraints**

5.1 Time

The Books.com website must be developed and launched within a specific timeframe, with regular updates and maintenance to ensure its ongoing performance and functionality.

5.2 Resources

The development and ongoing maintenance of the Books.com website will require a significant investment of time, money, and personnel resources.

**Acceptance Criteria**

The Books.com website will be considered successful if it meets the following criteria:

* The website is user-friendly and easy to navigate.
* The website can handle a high volume of traffic and transactions without significant slowdowns or downtime.
* The website is secure and protects user data from unauthorized access or misuse.
* The website complies with all relevant laws and regulations.
* The website is accessible on a range of devices and platforms.
* The website meets the performance, reliability, availability, maintainability, and scalability requirements outlined in the SRS.

**Glossary**

* SRS: Software Requirements Specification
* UI: User Interface
* API: Application Programming Interface

Project Timeline –

|  |  |  |
| --- | --- | --- |
| Month | Task | Description |
| February | Selecting the Project | These are the four topics which we thought of:  1.Notes Website  2.IOT Irrigation  3.Online Secondhand bookstore  4.Automatic room lighting |
| March | Finalizing the Project | The Project – ‘Online Secondhand Bookstore’ seemed relevant to our daily lives and field of interest. |
| Requirement Gathering | 1.Researched about business model of secondhand bookstores in nearest offline book market  2.Interviewed prospective buyers of secondhand books  3.Studied financial constraints around buying books at the offline market |
| April | Designing | 1.Visited e-commerce websites similar to ours that buy/sell refurbished goods.  2.Created a basic visual design and branding guidelines |
| Coding | 1.Develop the website architecture and Infrastructure  2.Develop and plan a responsive template |
| May | Coding | Create backend of the Website |
| Testing | Testing |