
<Group13-LB>

**<Book Management System>
Vision Document**

Version <4.0>

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Revision History

Date	Version	Description	Author
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Vision (Small Project)

1. Introduction

This document outlines the key requirements and features of the "Book Manager System." The system is designed to meet the needs of students, book buyers, sellers, and administrators by simplifying book searching, purchasing, renting, and management. It will provide a seamless experience for users, allowing efficient book transactions and inventory control, along with comprehensive reporting for administrators. The following sections detail how the system will fulfill these needs through its functionality and technical implementation.

1.1 References

Applicable references are:

(This section will be supplemented by the group at a later date.)

2. Positioning

2.1 Problem Statement

The problem of	Reading has become very limited and is decreasing, especially among young people. In addition, bookstores are facing difficulties in selling as they struggle to compete in the market.
Affects	Students, university students, recent graduates, bookstores.
The impact of which is	The limitations in accessing in-depth knowledge that reading short snippets of information cannot provide.
A successful solution would be	The project will provide a sales channel for sellers to better sell their products, while also improving the limitations of a traditional book.

2.2 Product Position Statement

For	All ages.
Who	Book enthusiasts who wish to access a wide variety of books quickly and easily through an online platform.
The (product name)	Book Management System
That	Quick and easy book purchasing; a rich collection of books, including both old and new titles, with a large quantity and many supporting features.
Unlike	Traditional bookstores or reading apps are often limited to a few genres or have a small book collection.
Our product	Providing a convenient online book buying and reading experience, with a user-friendly interface, a diverse book collection, and smooth online reading features, meeting the needs of all readers.

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3. Stakeholder and User Descriptions

3.1 Stakeholder Summary

Name	Description	Responsibilities
Development team	Team leader	Develop and implement the project, monitor the work progress of each member.
Professor	Phạm Hoàng Hải	Provide knowledge, support during the project execution. At the same time, specify the required features of the project.
Student	Student	Express their expectations for a website related to books and academia.
Book Store	Seller	Set the requirements when listing products for sale in the store.
Other user	Intellectual labor	Share their preferences for a website that makes them enjoy reading and facilitates quick transactions.

3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Student, Other user	Register in the system to purchase or read books.	Search for books Rent books online Purchase books	End User
Store manager	Register in the system under the seller's account to list products for sale.	Manage products Manage invoices Manage order status	Book Store
Admin	Manage the operations of the website.	Manage user data Sales statistics, inventory management, etc.	Admin

3.3 User Environment

The users of this application will include three main groups: The system primarily targets students (**Buyers**) who need to search for, order, or rent books for study or entertainment purposes without having to go directly to the library or bookstore. **Admin**: Typically, there will be one admin responsible for managing the entire system. This role can be held by an IT administrator or a business manager in libraries or bookstores. The admin is responsible for managing books, users, revenue reports, and system configuration. **Sales Staff**: The number of sales staff may vary depending on the size of the bookstore or organization. For a small bookstore, only 1-2 employees may be needed. In larger systems, the number of employees can be greater to manage sales and track orders.

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Environmental Limitations: The entire system operates on a web platform and requires continuous internet connectivity. However, consideration can be given to adding a feature that allows for offline reading of rented books for a certain period.

3.4 Summary of Key Stakeholder or User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Affordable Book Rentals	High	With limited funding, many students cannot access a wide range of books and materials due to high costs.	Students often have to borrow books and materials from different people, photocopy them, or purchase materials online, which makes accessing books and materials difficult, time-consuming, and expensive.	Students can search for and purchase/rent affordable books online on the website. With supportive tools, accessing books and materials becomes simpler and more cost-effective.
Reliable Sources of Books and Materials	High	Many unverified sources of books can significantly affect users.	Censor and hide/delete books and materials if they do not meet the required standards.	Conduct stricter and more rigorous censorship. The admin will delete or not approve books/materials that do not meet the necessary standards.
Researching Books Before Purchase	Medium	Since users cannot determine the suitability of materials upon first access, they need to read descriptions and reviews from those who have previously used the materials.	Create a book community for people to discuss topics related to materials and books.	Establish an online community to allow users to share and review books and materials, as well as see reviews from friends and the community. Manage and ensure that community members discuss in a civilized and polite manner.

3.5 Alternatives and Competition

Amazon Kindle: A platform that allows users to purchase, read, search for, and manage e-books, audiobooks, and other documents. Kindle also provides features that enable users to create notes and review books. Additionally, Amazon Kindle offers security features, synchronization, and support for various document formats.

Goodreads: A social network for book lovers where users can search for books, rate them, and maintain a reading list. Goodreads also allows users to share reviews and comments about books. Signing in and registering is easy, and users can create personal accounts to store their activities on the web. The interface is user-friendly and welcoming.

Scribd: A diverse and rich platform that serves various user groups, from book lovers to students and researchers. With a large library, powerful search features, and multi-platform access, Scribd provides an excellent reading and listening experience while supporting users in their studies and research.

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4. Product Overview

4.1 Product Perspective

The product Book Management System is a standalone, self-operating platform that provides functions for purchasing and reading books online. This platform operates independently but can integrate with external systems to extend functionality, such as:

- **Payment System Integration:** Connecting to online payment gateways like PayPal, Stripe, or local banks to support quick and secure transactions.
- **Social Media Integration:** Allowing users to share their favorite books or reviews through social media platforms like Facebook and Twitter.
- **Cloud Storage Integration:** Enabling users to synchronize their book data across multiple devices.

Additionally, the platform can interact with mobile reading applications and the inventory management systems of publishers, creating a tightly connected ecosystem from purchasing to reading and managing books.

4.2 Assumptions and Dependencies

4.2.1 Assumptions

- **Operating System Assumption:** The product is developed with the assumption that popular operating systems such as Windows, macOS, iOS, and Android will be available to end-users. If these operating systems are no longer supported or changed, the product will need adjustments for compatibility.
- **Security Assumption:** The platform is assumed to operate in a secure environment and relies on current security protocols to protect user information and transactions. If security standards change, the product may need updates to meet new requirements.

4.2.2 Dependencies

- **Dependency on Payment Services:** Integrating payment gateways requires support from payment service providers. If these payment gateways encounter issues or change policies, the product will be affected and may need adjustments.
- **Dependency on Internet Connectivity:** The platform requires a stable internet connection for users to purchase and read books online. If the connection is interrupted, the user experience will be compromised.
- **Dependency on Inventory Management Systems:** If the publisher's inventory management system is not updated regularly, managing and providing books on the platform may face accuracy issues.

4.3 Summary of Capabilities

Customer Benefit	Supporting Features
Easy Access to Books	User-friendly interface for browsing and searching books effortlessly.
Personalized Experience	Customized recommendations based on user preferences and previous purchases.
Secure Transactions	Robust payment processing and data encryption to ensure safe transactions.

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Efficient Order Tracking	Real-time updates on order status and delivery tracking for users.
Comprehensive Support	Access to customer service and FAQs for assistance with inquiries and issues.

4.4 Cost and Pricing

For our product, we have set a price point of 1 million VND. This pricing strategy reflects the value and features that our application provides to users, especially students. By positioning our product at this price, we aim to ensure that it remains accessible while also emphasizing its unique benefits and functionalities.

5. Product Features

Book Search and Browsing

- Users can search for books by title, author, genre, or keywords. The system will provide an intuitive interface for browsing through book categories and offer book recommendations based on user preferences.
- **Usability consideration:** Ensure fast search speed and that relevant results are displayed clearly, with easy filtering and sorting options.

Online Book Purchase

- Users can add books to their cart and proceed to checkout through integrated payment gateways like PayPal, credit cards, or online banking. The checkout process must be secure and quick.
- **Usability consideration:** The payment interface should be simple and easy to understand, with as few steps as possible to optimize the shopping experience.

Online Reading

- Users can read books directly on the platform with an integrated reader. The reader supports features like bookmarking, note-taking, font size adjustment, and night mode.
- **Usability consideration:** The reading interface should work smoothly across multiple devices and offer customizable settings for users to personalize their reading experience.

Synchronization Across Devices

- Users can sync purchased books and reading progress across multiple devices, allowing them to continue reading from where they left off on any device.
- **Usability consideration:** Quick synchronization is essential, along with securing users' personal data.

Book Reviews and Comments

- Users can write reviews, comment, and rate books after reading. These reviews will be publicly displayed and help other buyers make informed choices before selecting books.
- **Usability consideration:** The comment section should be well-organized, easy to view, and the system must prevent inappropriate content or violations.

User Account Management

- Users can manage their personal information, track purchase history, check purchased books, and reading progress through their personal account page.
- **Usability consideration:** The account management page should be easily accessible and provide all necessary information without being overly complicated.

Support for Multiple Payment Methods

- The system supports various payment methods, including credit cards, debit cards, PayPal, and other local online payment gateways.

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- **Usability consideration:** The payment interface needs to be user-friendly and ensure the highest security to protect customer information.

Book Inventory Management for Publishers

- Publishers can manage their book inventory, add new titles or update existing ones on the platform. They can also track the number of books sold and user feedback.
- **Usability consideration:** The management system should be simple, intuitive, support quick data entry, and provide real-time reporting.

Administrator Interface

- Administrators can manage users, books, and system settings. They can monitor activity on the platform and intervene when necessary, such as handling policy violations.
- **Usability consideration:** The administrator interface should be easy to navigate and provide quick access to important management functions.

Advanced Security Features

- The platform integrates security features to protect users' personal information and transactions, including data encryption and protection against cyber attacks.
- **Usability consideration:** Users need to feel secure while using the system, with clear security notifications and an understandable interface.

6. Non-Functional Requirements

Performance Requirements

- **Page Load Speed:** The website must load within 3 seconds or less on standard internet connections (3G speed or higher).
- **Payment Processing:** The system must process payment transactions in under 5 seconds after user confirmation.
- **Search Processing:** Book search results must be returned within 2 seconds after the user enters keywords.

Robustness and Fault Tolerance

- The system must operate continuously with a minimum uptime of 99.9%.
- The system should have the capability to self-recover from minor incidents without disrupting user services.
- In the event of a system failure, payment transactions must be temporarily stored and processed immediately upon system recovery.

Hardware and Platform Requirements

- The system must operate stably on popular platforms such as Windows, macOS, iOS, Android, and modern web browsers (Chrome, Firefox, Safari).
- A powerful server is required with sufficient storage capacity to support a diverse book inventory and high processing capabilities.

Security Requirements

- All user personal information and transactions must be encrypted (SSL/TLS) to protect data from cyberattacks.
- The system must have robust security features, including two-factor authentication (2FA) for user and administrator accounts.
- Compliance with security standards such as PCI DSS for payment transactions is required.

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Usability Requirements

- The website and application interface must be intuitive and easy to use, optimized for users of all ages.
- Users must be able to complete the book purchasing process in no more than 5 steps.
- The online reading application must allow users to easily adjust the reading interface (font, text size, light/dark mode).

Documentation Requirements

- Detailed user manuals must be provided for both end-users (book buyers) and administrators.
- An online help system should be available, including a FAQ section, email support, and live chat.
- Detailed installation documentation for developers, including information about the environment, configuration requirements, and deployment steps, is necessary.

Environmental Requirements

- The system must perform well in a cloud computing environment to leverage flexibility and scalability.
- Compatibility with external publisher inventory and distribution management systems is required to ensure accuracy in inventory management.

Priorities, Stability, Benefit, Effort, and Risk

- **Highest Priorities:** Security, system performance, and stability.
- **Risks:** Decreased access speed during peak times (promotions), cyberattacks on payment systems and user personal information.
- **Benefits:** Enhanced user experience and improved revenue due to the convenience and security of the system.