

A  
Mini-Project Report on

## **Book Store Management System**

Submitted in partial fulfillment of the requirements  
for the degree of  
**BACHELOR OF ENGINEERING**  
IN  
**Computer Science & Engineering**  
Artificial Intelligence & Machine Learning

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**2023-2024**



# A. P. SHAH INSTITUTE OF TECHNOLOGY

## CERTIFICATE

This is to certify that the project entitled “**Book store management system**” is a bonafide work of Aryan Shailesh (22106123), Sarang Bahikar (22106129), Gaurav Dalvi (22106137) Gaurav Kolambe(2206085) submitted to the University of Mumbai in partial fulfillment of the requirement for the award of **Bachelor of Engineering in Computer Science & Engineering (Artificial Intelligence & Machine Learning)**.

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# A. P. SHAH INSTITUTE OF TECHNOLOGY

## Project Report Approval

This Mini project report entitled “**Book Store Management System**” by **Aryan Shailesh, Sarang Bahikar, Gaurav Dalvi, Gaurav Kolambe** is approved for the degree of *Bachelor of Engineering in Computer Science & Engineering*, (AI & ML) **2023-24**.

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Place: APSIT, Thane

Date:

## **Declaration**

We declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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## **ABSTRACT**

This project proposes the development of a book store management system to automate the inventory management, order processing, and customer service processes of a retail store. The book store management system will be a web-based application that will allow store employees to track inventory levels, process orders, and manage customer accounts. The system will also provide reports on inventory levels, sales trends and also provide employee details. The purpose of this project is to develop a book store management system that will improve the efficiency and effectiveness of the retail stores' operations. The system will help to reduce the time and effort required to manage inventory, process orders, and provide customer service. The system will also provide valuable insights into the stores' operations, which can be used to improve decision-making.

### **Methods used:**

1. Data collection: The first step will be to collect data on the store's inventory, order processing, and customer service processes. This data will be used to design the system and to ensure that it meets the needs of the store.
2. System design: The next step will be to design the system architecture and to develop the system's user interface. The system will be designed to be user-friendly and to meet the specific needs of the store.
3. System development: The system will then be developed using the appropriate programming languages and technologies. The system will be tested and debugged to ensure that it is free of errors.
4. System deployment: The system will then be deployed to the store's computer network. The system will be trained to the store's employees and they will be given the necessary support to use the system effectively.

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# **CHAPTER 1**

## **INTRODUCTION**

# 1. INTRODUCTION

A book store management system is a software application that helps businesses to manage their inventory, orders, and customers. book store management system can help businesses to improve their efficiency and profitability by automating many of the manual tasks involved in these processes.

This project proposes the development of a book store management system to automate the inventory management, order processing, and customer service processes of a retail store. The book store management system will be a web-based application that will allow store employees to track inventory levels, process orders, and manage customer accounts. The system will also provide reports on inventory levels, sales trends, and customer behaviour.

## **The objectives of this project are to:**

1. Develop a web-based book store management system that is user-friendly and easy to use.
2. Automate the inventory management, order processing, and customer service
3. Provide real-time information to store employees.
4. Improve the efficiency and accuracy of these processes.

The background of a book store management system can be quite varied, depending on the specific needs of the business. However, there are some common factors that are often found in the background of an Store Management System.

## **The need of book store management system:**

One common factor is the need to track inventory levels. This is essential for any business that sells products, as it helps to ensure that the right amount of stock is available to meet customer demand. An book store management system can help businesses to track inventory levels in real time, so that they can quickly identify any shortages or surpluses.

Another common factor is the need to process orders efficiently. This is important for businesses that sell online or over the phone, as it helps to ensure that customers receive their orders quickly and accurately. An book store management system can help businesses to process orders more efficiently by automating many of the manual tasks involved in the process.

Finally, many businesses also use book store management system to manage their customer relationships. This can include tracking customer interactions, managing customer loyalty programs, and sending targeted marketing messages. An book store management system can help businesses to build stronger relationships with their customers by providing them with a more personalized experience.

Overall, the background of a book store management system can be quite varied, but there are some common factors that are often found. By understanding these factors, businesses can better choose the right book store management system for their needs.



# **CHAPTER 2**

## **LITERATURE SURVEY**

## 2. LITERATURE SURVEY

### 2.1-HISTORY

The history of store management can be traced back to the early days of commerce. In the ancient world, merchants would keep track of their inventory using a variety of methods, such as tally sticks or clay tablets. As businesses grew in size and complexity, the need for more sophisticated store management systems arose. In the Middle Ages, monasteries and other large organizations began to develop inventory management systems. These systems were often based on the use of double-entry bookkeeping, which is still used today.

The Industrial Revolution brought about new challenges for store management. With the rise of mass production, businesses needed to find ways to track inventory and orders more efficiently. In the late 19th century, punched card systems were developed, which allowed businesses to automate some of their inventory management tasks.

The 20th century saw the development of new technologies that revolutionized store management. In the 1950s, computers were first used in store management systems. This allowed businesses to store and process data much more quickly and efficiently. In the 1970s, barcodes were invented, which made it easier to track inventory and orders.

Today, store management systems are highly sophisticated and use a variety of technologies, such as radio frequency identification (RFID) and cloud computing. These systems allow businesses to track inventory in real time, manage orders more efficiently, and provide better customer service.

The evolution of store management has gone through many changes over the years, from the early days of manual systems to the modern era of cloud-based software.

Here are some of the key milestones in the evolution of store management:

**1 Early days (pre-1970s):** Store management was largely manual, with businesses using pen and paper to track inventory, orders, and customer data. This was a time-consuming and error-prone process.

**1970s-1980s:** The introduction of mainframe computers led to the development of the first computerized store management systems. These systems were still relatively expensive and complex, but they did offer some advantages over manual systems.

**1990s-2000s:** The rise of personal computers and the internet led to the development of more affordable and user-friendly store management software. These systems made it easier for businesses to track inventory, orders, and customer data, and they also offered new features such as e-commerce and customer relationship management (CRM).

**2010s-present:** The cloud computing revolution has led to the development of cloud-based store management software. These systems are hosted on the internet, which means that businesses can access them from anywhere with an internet connection. Cloud-based systems are also more scalable than traditional software, making them a good option for businesses of all sizes.

The evolution of store management has been driven by the need for businesses to improve their efficiency, profitability, and customer service. As technology has evolved, so too have the tools that businesses can use to manage their stores, interactions and preferences. Reporting: Store management systems can generate reports on inventory levels, orders, sales, and other data. Challenges of Implementing an book store management system There are a few challenges that businesses may face when implementing an Store management system. These challenges include:

- \* The cost of the software application
  - \* The time and resources required to implement the software
  - \* The need to train employees on how to use the software
  - \* The need to integrate the software with other business systems
- Security and Privacy Implications of Store management systems.

Store management systems collect and store sensitive data, such as customer information and financial data. This data must be protected from unauthorized access and use. Businesses that implement an book store management system must take steps to ensure the security and privacy of their data. Future of Store management systems. The future of Store management systems is bright. As businesses continue to adopt new technologies, Store management systems will become even more sophisticated and powerful. Store management systems will be used to automate more and more of the tasks involved in inventory management, order management, and customer service. Store management systems will also be used to collect and analyse data to help businesses make better decisions.

## **2.2-LITERATURE REVIEW**

The Book store management Website project, with its ambition to deliver real-time weather information to users in a user- friendly manner, has been meticulously evaluated in this review. The project's objectives, functionality, design, and overall execution have been considered to provide a comprehensive assessment.

### **"IMPLEMENTATION OF RETAIL BOOK STORE MANAGEMENT SYSTEM WEB APPLICATION USING RULE ENGINE."**

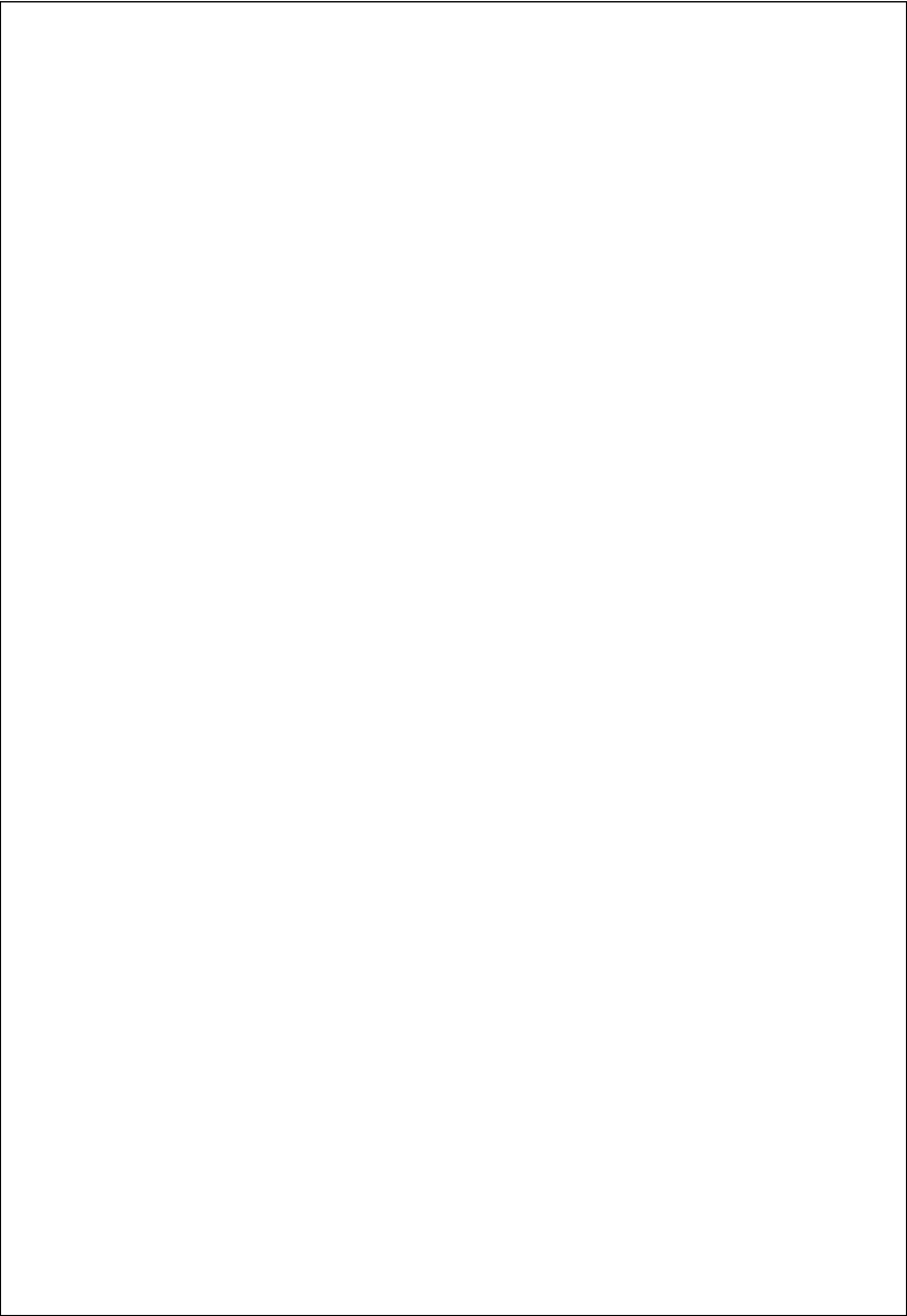
Book Store Management System is that the web application to automate all types of operations within the book place. The aim of this software is to manage the books within the book store. Generally, it includes the Order Processing, Stock Management and Accounts Management and rule engine-based commission distribution. They developed this software to take care of records of sales, purchase and staff records. This project developed using JAVA as face and POSTGRESQL Server as side. At the beginning of the business, the books store owner buys the book from the dealers. All the name of the books is noted down within the software together with rate. In the present system user needs to do all work manually. During issuing order of more stock, the merchandise register is required to test to availability of stock and it takes time to test records.

### **"A Web-based Book Application using MongoDB & Nodejs."**

Book Bea is a book-lovers' platform where people can exchange, share, and sell books according to their interests and tastes. Once a user logs in, he/she is registered in the system and a new profile is created, where the user may construct their own bookshelf with all the books they want to read or swap. Our idea is aimed to cater to the needs of voracious readers who have a wide range of reading preferences and often find acquiring each book from a bookstore quite cumbersome, thus, making Book Bea the right place for them in this instance. Each book's edition and description are provided, giving the user a gist of what they are interested.

### **"Bookstore Information System for Karabatan Bookstore "**

The use of, information System is spreading rapidly in many organizations. It is now widely accepted that the success of business depends on Information Systems used in the business, or indirectly depending on other organizations that use Information Systems. Automation is not always the best solution to business problems. In the past many businesses have spent a huge amount of money to automate tasks that people performed manually. Automating existing processes with information technology provides more efficient ways of doing the same old processes. Process improvement is best achieved by tiling advantage of new technologies. Changes can be made to the process by using new technology implementation. These· changes should simplify process, improve the quality. of service, reduce the cost of the process, decrease delays in the process and make improvement.



# **CHAPTER 3**

## **Problem Statement**

### 3. Problem Statement

The current manual system for inventory management, order processing, and customer service is inefficient and time-consuming. It is also prone to errors. This can lead to stock outs, overstocking, customer dissatisfaction, and lost profits.

A book store management system can help to solve these problems by automating these processes and providing real-time information to store employees. This can improve the efficiency and accuracy of these processes, reduce costs, and improve customer service.

The specific problem statement for a book store management system project will vary depending on the needs of the business. However, some common problems that can be solved by an book store management system include:

1. **Inventory management:** The inability to track inventory levels accurately can lead to stock outs or overstocking. This can cost the business money and damage customer relationships.
2. **Order processing:** The manual processing of orders can be time-consuming and error-prone. This can lead to delays in order fulfillment and customer dissatisfaction.
3. **Customer service:** The inability to track customer interactions can make it difficult to provide timely and personalized service. This can lead to customer churn and lost sales.

By understanding the specific problems that a book store management system can solve, businesses can better choose the right book store management system for their needs. An book store management system can be a valuable tool for businesses of all sizes, and can help them to improve their efficiency and profitability.

# **CHAPTER 4**

## **Experimental Setup**



## 4. Experimental Setup

### 4.1 Software Setup

**Software Setup** The development of our college project website required a well-structured software setup to ensure efficient coding, testing, and deployment processes. The primary technologies utilized in our project were HTML, CSS, and JavaScript. Below, we outline the key software tools and environments employed during the development phase:

**HTML Editing:**

We employed the use of Visual Studio Code as our primary HTML editor. Visual Studio Code provided us with essential features like syntax highlighting and auto-completion, streamlining the HTML coding process.

**CSS Styling:** For CSS styling, we continued to use Visual Studio Code, maintaining a seamless workflow. We also explored Sass, a CSS preprocessor, to enhance the efficiency and organization of our stylesheets.

**JavaScript Development:** JavaScript was an integral part of our project's interactivity.

**MongoDB** is a popular open-source, NoSQL database management system that is designed for flexibility, scalability, and ease of development. It falls under the category of document-oriented databases, which means it stores data in a format similar to JSON (BSON, Binary JSON) documents. MongoDB is often used for applications that require high-performance, real-time data storage and retrieval.

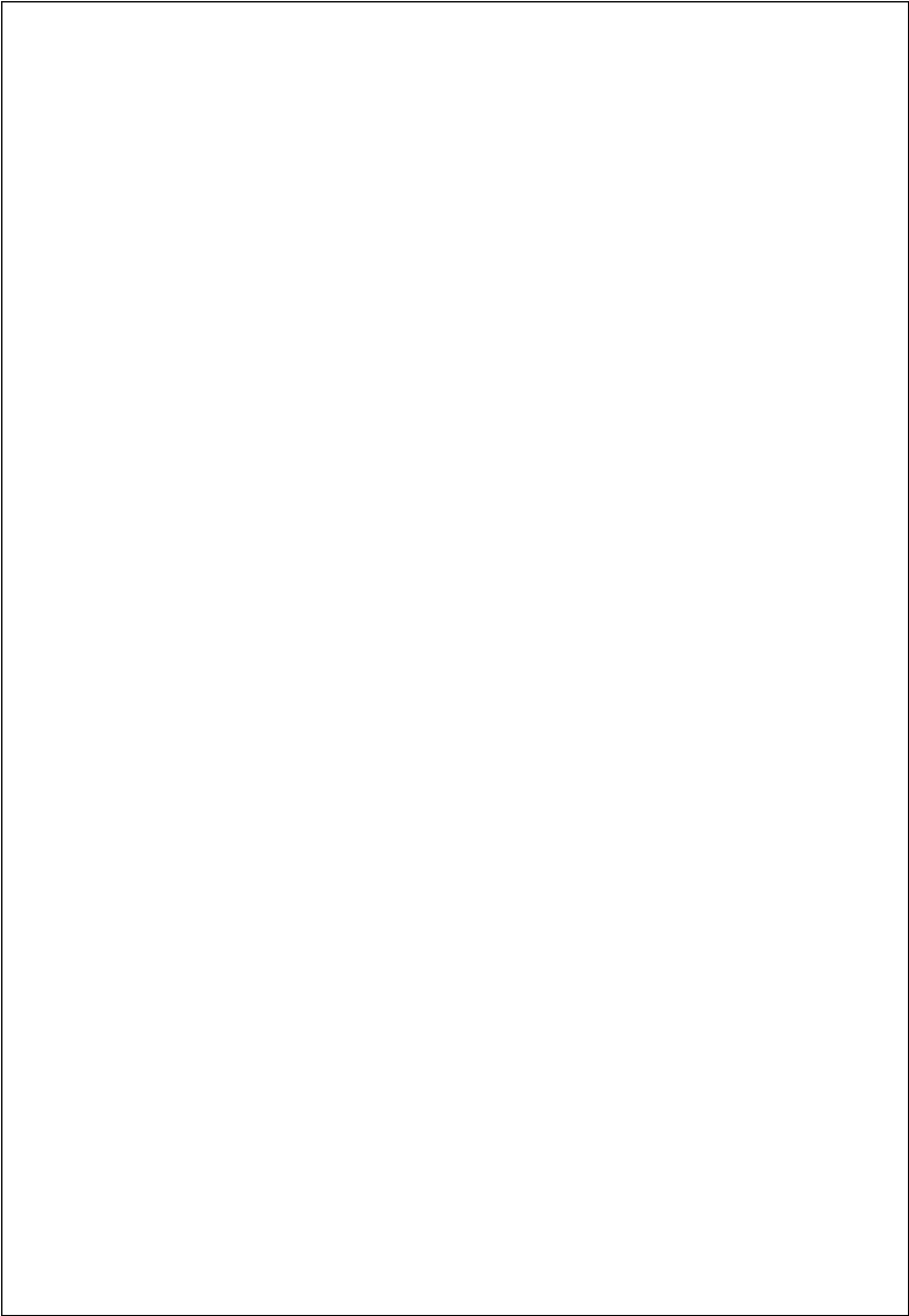
**Node.js** is a runtime environment that allows you to execute JavaScript code on the server-side. It is commonly used for building server-side applications and is particularly well-suited for building scalable, real-time, and high-performance web applications. Node.js is often used in combination with MongoDB for database connectivity.

We utilized Visual Studio Code for JavaScript development, ensuring the smooth implementation of dynamic features and user interactions. Once your website is deployed to a web server, it will be accessible to the public. You can then start promoting your website to attract visitors.

Developing a website can be a challenging task, but it is also very rewarding. With the right software setup and some basic knowledge of web development, you can create a website that meets your needs

### 4.2 Hardware setup

- Memory: 4GB RAM
- Web-Browser: Google / Opera / Mozilla Firefox / Microsoft Edge
- Operating System: Windows / MacOS / Linux distributions / iOS / Android.
- Network: Wi-Fi / Internet (4G / 5G)

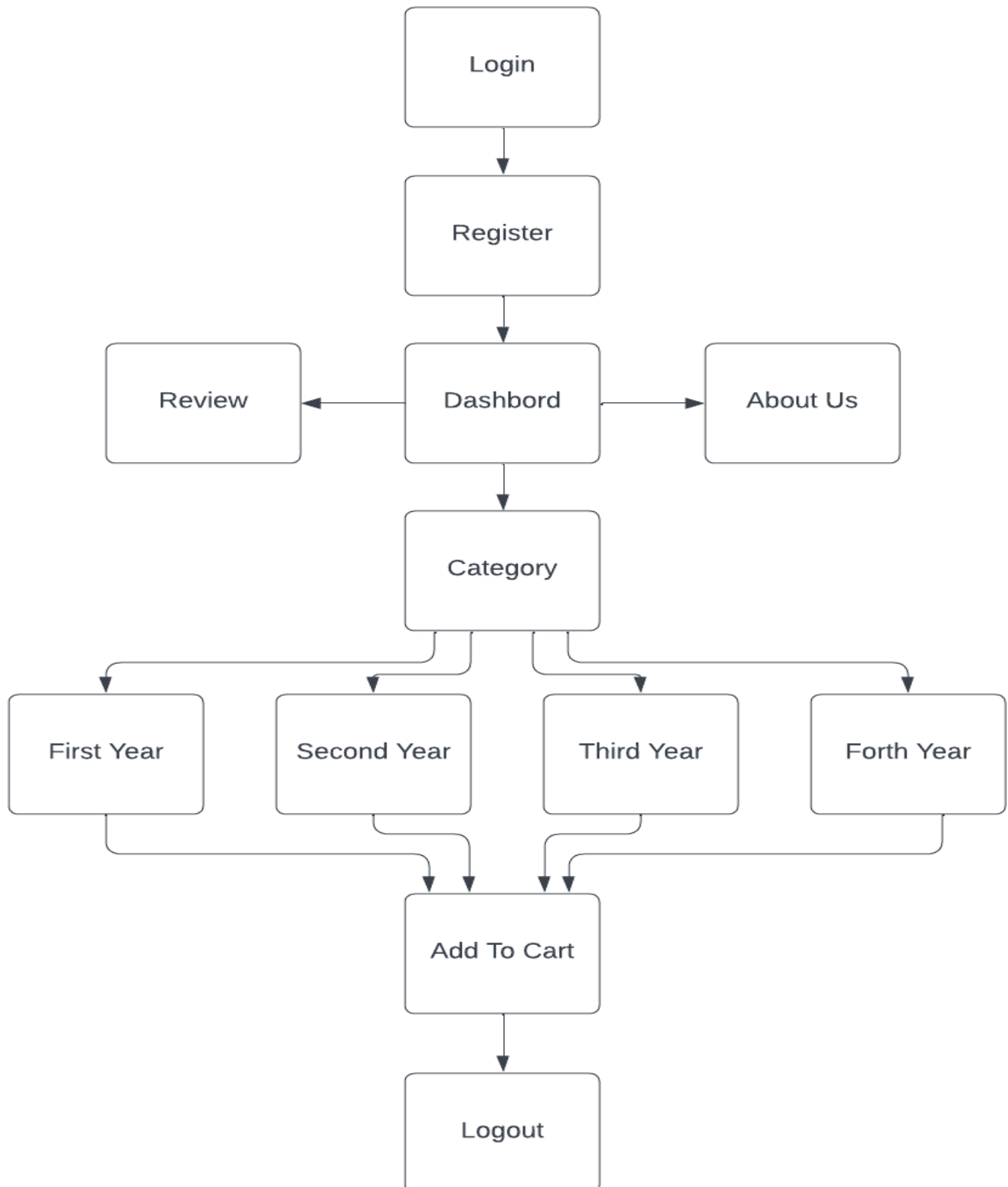


# **CHAPTER 5**

## **Proposed System & Implementation**

## 5. Proposed system & Implementation

### 5.1 Block diagram of proposed system



## 5.2 Description of block diagram

**Registration:** Registration in a website is the process of creating an account on a website so that you can use its features and services. This may include things like being able to post comments, purchase products, or access exclusive content. To register for a website, you will typically need to provide some basic information, such as your name, email address, and a password. You may also be asked to provide other information, such as your date of birth, gender, or location. Once you have completed the registration process, you will be able to log in to the website using your email address and password. This will give you access to all of the features and services that the website has to offer. Registering for a website is a quick and easy way to gain access to its features and services. Just be sure to choose a strong password and be careful about providing personal information.

**Categories:** Categories are groups of related things. They can be used to organize information, make sense of the world around us, and communicate with others.

Categories can be based on a variety of criteria, such as:

- **Similarity:** Things that are similar in some way can be grouped together into a category. For example, the category "animals" includes all things that are living organisms that move around and eat.
- **Function:** Things that have the same function can be grouped together into a category. For example, the category "tools" includes all things that are used to make work easier or to create something.
- **Time period:** Things that happened during the same time period can be grouped together into a category. For example, the category "historical events" includes all the important things that happened in the past.
- **Categories are an essential part of the way we organize and understand the world around us.** They help us to make sense of the vast amount of information that we are exposed to every day.

**Add to cart:** Add to cart is a button that allows customers to add products to their online shopping cart. It is typically found on product pages and category pages. When a customer clicks on the add to cart button, the product is added to their cart and they can continue shopping or proceed to checkout. Add to cart buttons are an essential part of any online store. They make it easy for customers to find the products they want and add them to their cart, which ultimately leads to more sales. Add to cart buttons are an essential part of any online store. By following the tips above, you can create effective add to cart buttons that will help you increase sales.

**Books:** Books are a wonderful source of knowledge, entertainment, and inspiration. They can transport us to other worlds, introduce us to new ideas, and help us to better understand ourselves and the world around us. There are many different types of books, from fiction to non-fiction, and from children's books to adult books. There is something for everyone in the world of books. Fiction books tell stories about imaginary people and events. They can be set in the real world or in a fantasy world. Popular genres of fiction include romance,

mystery, science fiction, and fantasy.

**Review:** A review is an evaluation of a product, service, or work. It is typically written by a consumer or expert who has used or experienced the product, service, or work. Reviews can be positive, negative, or mixed. Reviews are important because they can help other consumers make informed decisions about what to buy or try. They can also help businesses to improve their products and services. Reviews are a valuable resource for consumers and businesses alike. By reading and writing reviews, we can help each other make informed decisions and improve the products and services that we use.

#### **Explanation of each block.**

**Registration:** Registration on a website is the process of creating an account so that customers can access certain features of the website, such as making purchases, viewing order history, and leaving reviews.

**Categories:** Categories are a way of grouping things together based on their shared characteristics. They can be used to organize information, make decisions, and solve problems

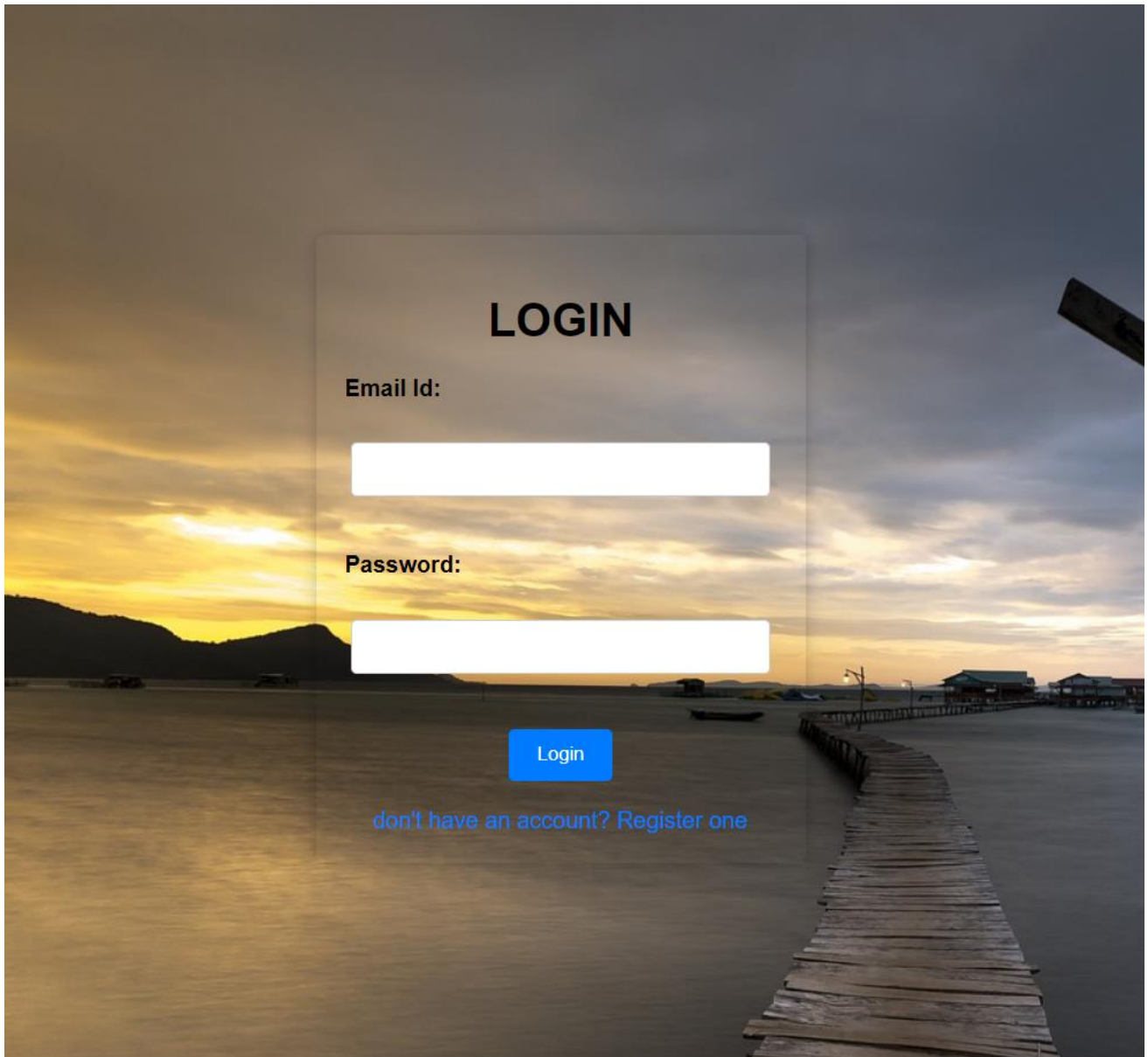
**Add to Cart:** The "add to cart" function is a core feature of any e-commerce website. It allows customers to select items they want to purchase and add them to a virtual shopping cart. The customer can then review the items in their cart, make changes, and proceed to checkout when they are ready to complete their purchase.

**Books:** Books in PDF format are digital versions of books that can be read on a computer, tablet, or smartphone. PDF stands for Portable Document Format, and it is a popular format for e-books because it preserves the original formatting of the book, including images, fonts, and layout.

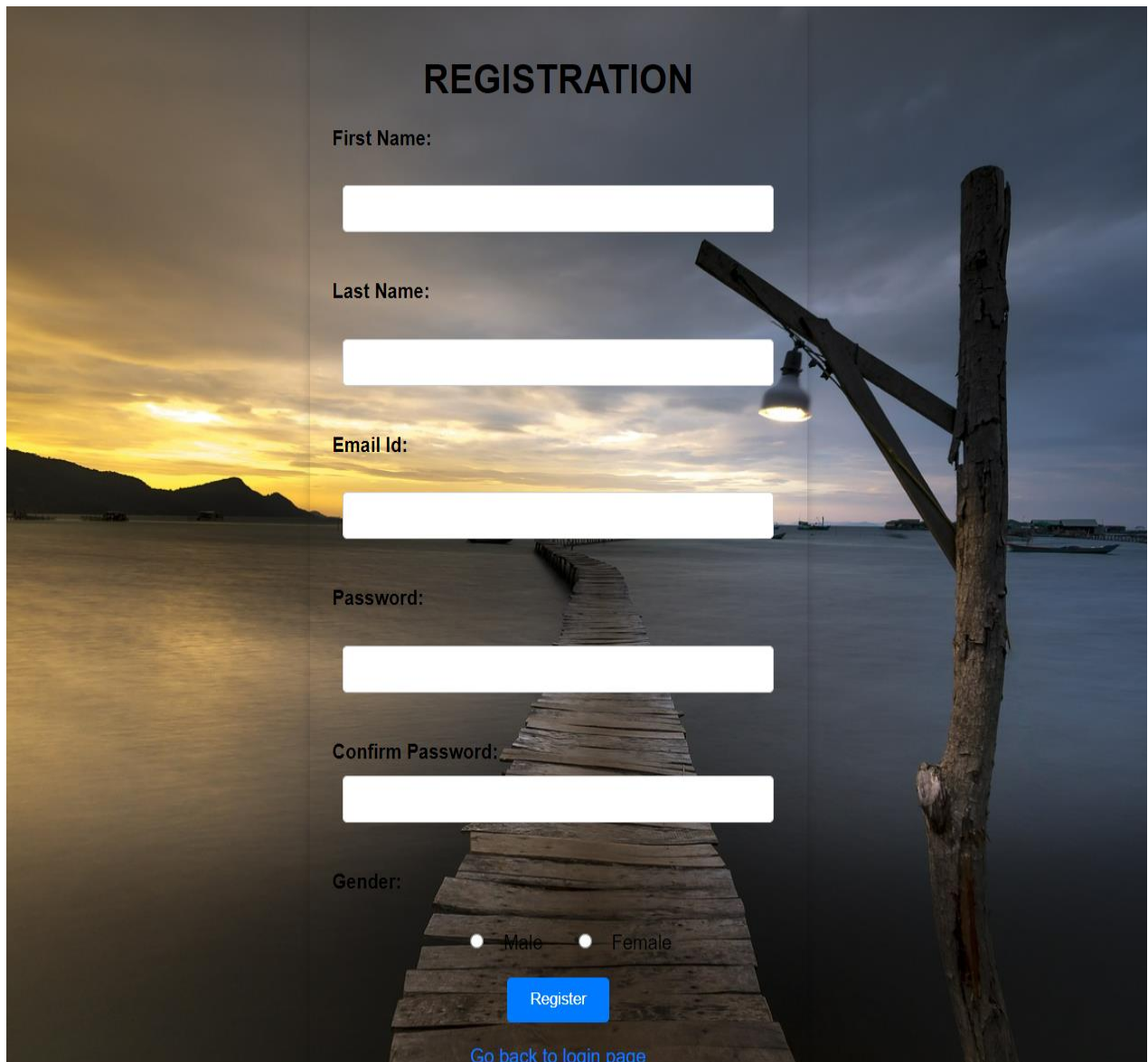
**Review:** Reviews are written evaluations of products, services, or businesses. They can be written by customers, experts, or other individuals who have used or experienced the product, service, or business. Reviews can be positive, negative, or neutral.

**Home:** A homepage is the main web page of a website. It is the first page that visitors see when they go to a website's domain name (e.g., [www.google.com](http://www.google.com)). The homepage typically provides an overview of the website's content and purpose, and it may also include links to other pages on the website.

## 5.2 Implementation



5.2.1 Login page

A registration form is overlaid on a background image of a wooden pier extending into the sea at sunset. The form is centered and contains the following fields and elements:

**REGISTRATION**

First Name:

Last Name:

Email Id:

Password:

Confirm Password:

Gender:

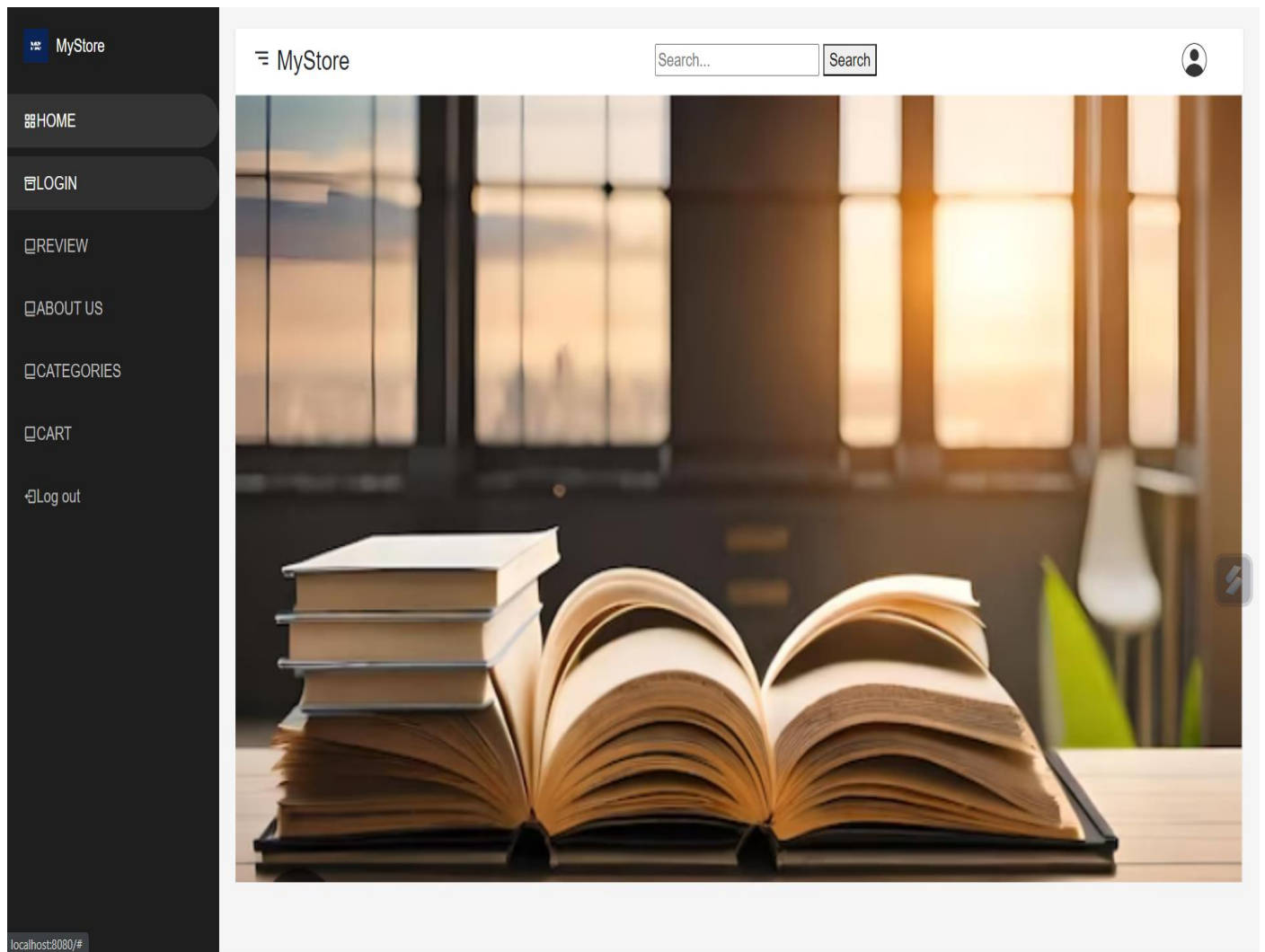
☐ Male ☐ Female

[Go back to login page](#)

[Register](#)

### 5.2.2 Registration page





5.2.3 Dashboard

## FIRST YEAR ENGINEERING

### Add a New Book/Notes

Product Name:

Price:

Description:

Image (JPG, PNG):

No file chosen

PDF File:

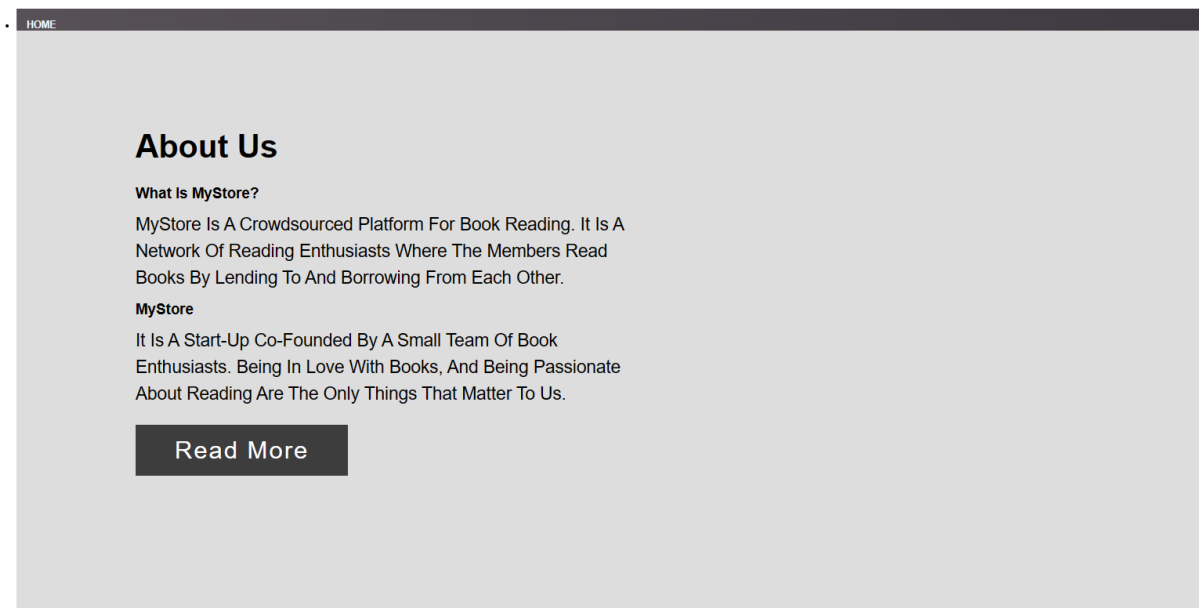
No file chosen

Add Product

[View Product List](#)

© 2023 Your Company Name

### 5.2.4 Admin page to add books



### 5.2.1 About Us page

# **CHAPTER 6**

## **Conclusion**

## **6.Conclusion**

The system should be used to generate reports on sales, inventory, and other key metrics. These reports can be used to identify trends and make informed business decisions. This book store management system project has been successfully completed. The system has been designed and implemented to meet the specific needs of the store, and it has been tested to ensure that it is reliable and efficient. The system provides a number of benefits to the store, including:

- Improved inventory management: The system tracks inventory levels in real time, making it easy for staff to see what is in stock and what needs to be reordered.
- Increased sales: The system helps to increase sales by providing customers with a quick and easy way to find the products they are looking for.
- Reduced costs: The system helps to reduce costs by streamlining the store's operations and reducing the need for manual tasks.
- Improved customer service: The system helps to improve customer service by providing staff with the information they need to quickly and efficiently answer customer questions and resolve customer issues.

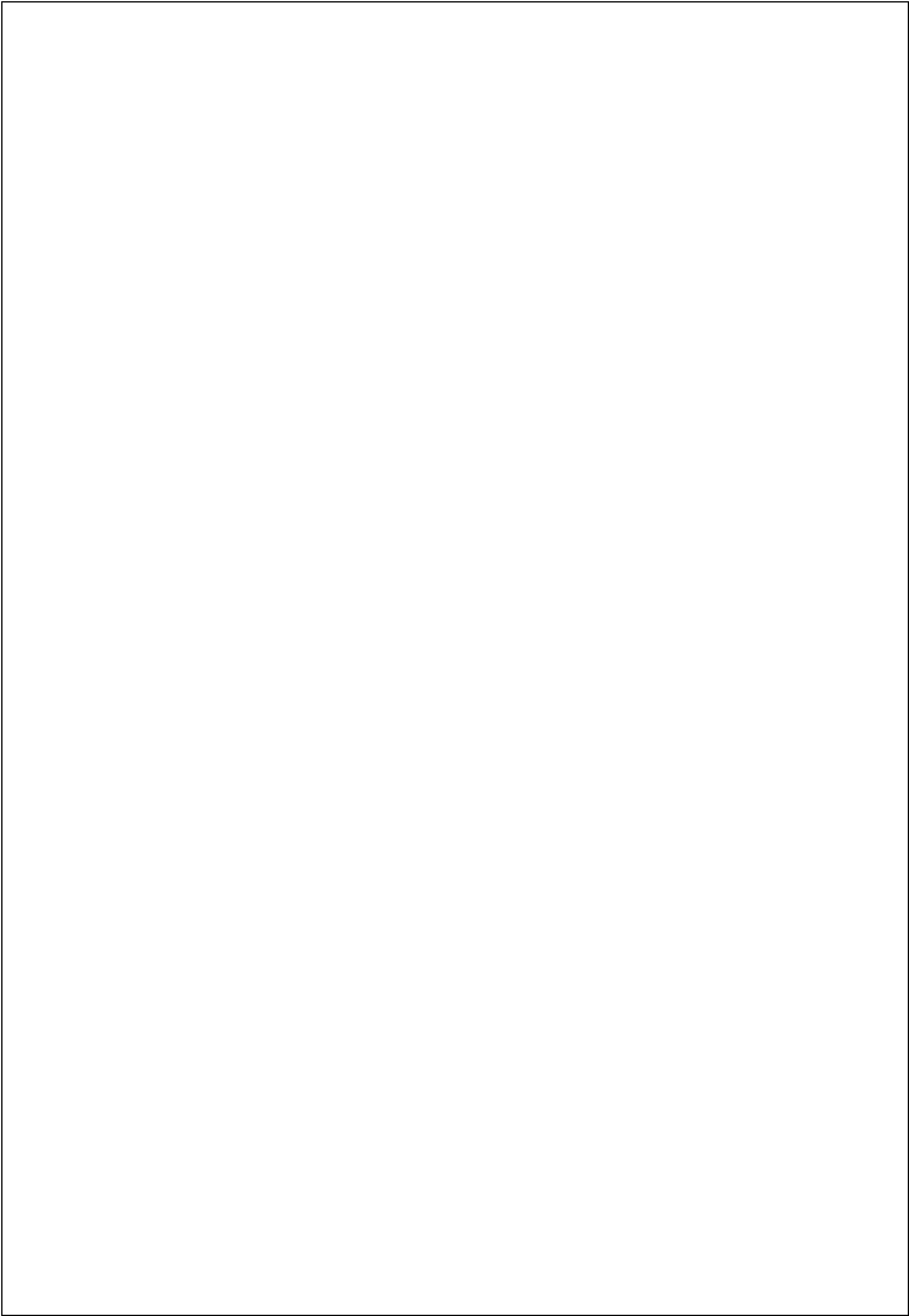
Overall, the book store management system project has been a success. The system has met the store's needs and has provided a number of benefits.

### **Recommendations**

The following recommendations are made for the future development and use of the store management system:

- The system should be integrated with the store's e-commerce platform, if applicable.
- This would allow customers to place orders online and have them picked up or delivered.
- The system should be updated regularly to include new features and functionality.

This will help to ensure that the system continues to meet the store's needs.



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