

**PGDAC 0323 – PROJECT DOCUMENT SUBMISSION- PART III**

Doc. Name	<b>SOFTWARE REQUIREMENT SPECIFICATION –Version-3</b>		
Project Title	<b>Online Book Store</b>		
Doc. No.	230360920055	Group	11

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## Functionality Specification

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# **1 Introduction**

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace.

The objective of this project is to develop a general purpose e-commerce store where any product (such as books, computers, mobile phones, electronic items, and home appliances) can be bought from the comfort of home through the Internet. However, for implementation purposes, this report will deal with an online book store.

An online store is a virtual store on the Internet where customers can browse the catalogue and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. And invoice will be generated.

## **1.1 Name of the product**

Title: Online Book-Store

## **1.2 General Description**

A customer can create an account, log in, sort books by category, add books to a shopping basket, and pay their bill using their credit card information. When compared to a regular user, the Administrator will have more options. He can edit the author, book categories, book details, and member information, as well as confirm an order.

## **1.3 Product Perspective**

The Online Shopping System shall be developed using client server architecture and will be compatible with Microsoft Windows operating system. Front end of the system will be developed using HTML5, CSS, and JavaScript, bootstrap the back and will be developed using Spring Boot app and MySQL database engine is used.

The purpose of an online shopping system would be to achieve the following goals:

- Create a web user interface for adding, viewing, and deleting records in different areas.
- Create a user interface for inputting computer details.
- Provide a user interface for changing computer and accessory details.
- Provide a user interface that allows users to browse the store and select things to purchase.

## **1.4 Product Functions**

- Provides the searching facilities based on various factors. Such as Books, Authors, Categories.
- Online Book Store also manages the Bill details online for Order details, Payment details, Books.
- It tracks all the information of Stock, Bill, and Order etc.
- Shows the information and description of the Books, Customers.
- It deals with monitoring the information and transactions of Order.
- Editing, adding and updating of Records is improved which results in proper resource management of Books data.
- Manage the information of Order.
- Integration of all records of Payment.

## **1.5 Product Specification**

1. Admin Module.
2. New customer account Registration.
3. Existing customer login.
4. Customer can update their details.
5. Book search (by author name, title, category, or combinations).
6. Add to cart, remove from cart, and place order.
7. Dummy payment option.
8. Invoice

## **1.6 User Characteristics**

The typical Online Bookstore user is simply anyone that has access to the Internet and a web browser. It is assumed that the user is familiar enough with a computer to operate the browser, keyboard and mouse and is capable of browsing to, from and within simple websites.

## **1.7 General Constraints:**

1. The software does not maintain records of periodicals.
2. There will be only one administrator.
3. The user will not be allowed to update the user id.
4. To reduce the complexity of the system there is no check on delete operation.
5. The administrator should be very careful before editing of any product.
6. Only registered customers can order books and can update their profile.

## 2 Specific Requirements

This section contains the software requirements in detail along with the various forms to be developed

### 2.1 Functional Requirements:

This section provides requirement overview of the system. Various functional modules that can be implemented by the system will be –

#### 2.1.1 Functional Requirement 1

➤ **Use Cases:**

**Browse Catalogue**

**1) Search for a Book**

- **Purpose:** A user can search for a book of his choice by selecting category and title. Then a select query is used to retrieve data from the database and display the selected information.
- **Actor:** User
- **Input:** The user will select a category and enter title in a text box provided.
- **Output:** The system will display the books which matches the selected search criteria. A dataset is created as a result of select query. Later the dataset is binded to the data repeater to display the selected data.

**2) Perform Advanced Search**

- **Purpose:** If the user wants to perform an advanced search he can search for a book of his choice by selecting category, title, author and price range. Then a select query is used to retrieve data from the database and display the selected information.
- **Actor:** User

- **Input:** The user will select a category and enter title, author, and price range in a text box provided.
- **Output:** The system will display the books which matches the selected search criteria. A dataset is created as a result of select query. Later the dataset is binded to the data repeater to display the selected data.

## 2.1.2 Functional Requirement 2-

### ➤ Maintain Account

#### 1) Register

- **Purpose:** If the user doesn't have an account then he will be asked to register.
- **Actor:** User
- **Input:** The user will enter details in the registration form according to the required fields. The fields include
  1. Username
  2. Password
  3. Confirm password
  4. First name
  5. Last name
  6. Email
  7. Address
  8. Phone
- **Output:** After registration the user will be directed to the main home page.

#### 2) Login

- **Purpose:** If the user wants to get access to all the functionalities of Online Book Store he should login using his username and password.
- **Actor:** User



- **Input:** The user will enter his username and password.
- **Output:** If it is a successful login the user will be directed to the main home page. Else if the user enters invalid information he will be asked to check the entered information.

### 3) Update Profile

- **Purpose:** If the user wants to change his personal account information then he can update his selected fields and the entire data will be updated in the data base through an update query.
- **Actor:** User
- **Input:** The user will update his account information.
- **Output:** The system will update the entered information in the database using an update query.

### 4) Logout

- **Purpose:** If the user wants to end his session and sign out of the website then he can use the logout option.
- **Actor:** User
- **Input:** The user will click the logout button.
- **Output:** The user's account session comes to an end and he should login again if he wants to enter into the website.

## 2.1.3 Functional Requirement3 –

### ➤ Manage Shopping Cart

#### 1) Place an order

- **Purpose:** If the user wants to purchase a book then he can place an order by selecting the add to shopping cart button and entering the quantity required under the book description.
- **Actor:** User

- **Input:** The user will enter the quantity required and click the add to shopping cart button.
- **Output:** The order will be added to the user's shopping cart.

## 2) Update Shopping Cart

- **Purpose:** If the user wants to change the quantity of a book or change a book then he can update his shopping cart.
- **Actor:** User
- **Input:** The user will click the details button in the shopping cart summary to edit and update his order details.
- **Output:** The updated order details are reflected in the shopping cart summary.

## 3) View Shopping Cart

- **Purpose:** If the user wants to view the items he added to the shopping cart then he can click the shopping cart link at the top of the page.
- **Actor:** User
- **Input:** The user will click the shopping cart link at the top of every page.
- **Output:** The user's shopping cart summary will be displayed in the form of a tabular format with all the books and their quantity. A total cost of all the items is also displayed at the bottom.

## 2.1.4 Functional Requirement 4 –

### ➤ Administrator

#### 1) Login

- **Purpose:** If the Administrator wants to get access to all the functionalities of Online Book Store he should login using his username and password.
- **Actor:** Administrator
- **Input:** The Administrator will enter his username and password.
- **Output:** If it is a successful login the Administrator will be directed to his menu page. Else if the Administrator enters invalid information he will be asked to check the entered information.

#### 2) Add or Delete Category

- **Purpose:** If the Administrator wants to add or delete a book category then he can insert or delete a book category using his administration rights and the category table will be updated in the database.
- **Actor:** Administrator
- **Input:** If the Administrator wants to add a book category the he should click the insert link button in the category page else he can delete a particular selected book category.
- **Output:** The updated categories list will be displayed in the main home page.

#### 3) Add or Delete Book

- **Purpose:** If the Administrator wants to add or delete a book then he can insert or delete a book using his administration rights and the book table will be updated in the database.

- **Actor:** Administrator
- **Input:** If the Administrator wants to add a book the he should click the insert link button in the book page and fill the following fields related to the book.
  1. Title
  2. Author
  3. Price
  4. Category
- **Output:** The updated books list will be displayed in the main home page under their particular category.

#### 4) Manage Orders

- **Purpose:** If the Administrator wants to add or delete an order then he can insert or delete an order using his administration rights.
- **Actor:** Administrator
- **Input:** If the Administrator wants to add an order the he should click the insert link button in the orders page else he can delete a particular selected order
- **Output:** The updated orders list will be processed to the users.

#### 5) Logout

- **Purpose:** If the Administrator wants to end his session and sign out of the website then he can use the logout option.
- **Actor:** Administrator
- **Input:** The Administrator will click the logout button.
- **Output:** The Administrator's account session comes to an end and he should login again if he wants to enter into the website.

## **2.2 Non-Functional Requirements:**

### **❖ Performance Requirements:**

The performance requirements are as follows:-

- System login/logout shall take less than 5 seconds.
- The system should run properly on all browsers.
- The system should be light and run smoothly.

### **❖ Safety Requirements**

The safety requirements are as follows:-

- The password should not be visible while typing.
- User records are to be backed up securely across database servers.  
In case database is hacked by someone, and data is deleted a backup server should be present for such purpose.

### **❖ Security Requirements**

The security requirements are as follows:-

- The user (buyers and administrator) require a username and password to login into the system.
- The buyers cannot buy books without logging in.
- The order will not be confirmed until payment process is completed.

### **❖ Software Quality Attributes**

- **Reliability**

The average time of failure for the system is 30 days. In the event that the server crashes, the system will take a week to be running again.

- **Availability**

The Online Bookstore will be available 24x7, with the exception of being down for maintenance no more than 3 hours a week. If the system crashes, it should be back up within a week.

- **Security**

Users will be able to access only their own personal information and not that of other users. Purchases will be handled through a secure server to ensure the protection of user's credit card and personal information.

- **Maintainability**

Any updates or defect fixes shall be able to be made on server-side computers only, without any patches required by the user.

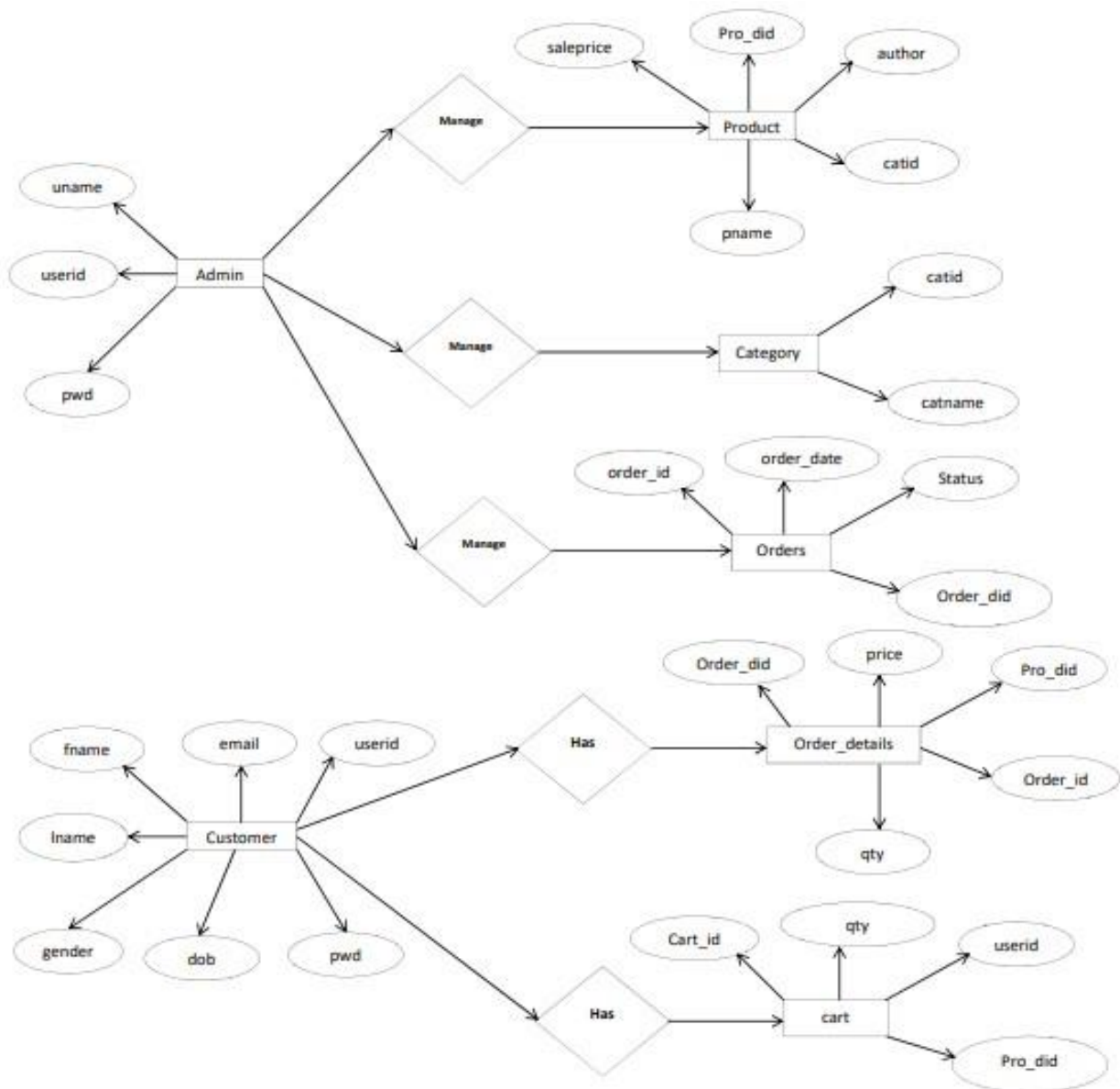
## ❖ **Business Rules**

The business rules are as follows:

- The administrator cannot be a customer.
- The administrator cannot access the buyer's personal information.

# DB Design:

## Part -1 ER- Diagram



## **Part -2 DB table Normalization**

### **Database tables:-**

#### **Admin :**

Field	Constraints	Type
userid	Primary Key	varchar(255)
pwd	Null	varchar(255)
uname	Null	varchar(255)

#### **Cart:**

id	Primary Key	int
prodid	<u>Foreign Key</u>	int
qty	Null	int
userid	<u>Foreign Key</u>	varchar(255)

#### **Category :**

catid	Primary Key	int
catname	Null	varchar(255)



**Customer:**

userid	Primary Key	varchar(255)
cpwd	Null	varchar(255)
dob	Null	varchar(255)
email	Unique	varchar(255)
fname	Null	varchar(255)
gender	Null	varchar(255)
lname	Null	varchar(255)
pwd	Null	varchar(255)

**Order\_details :**

id	Primary Key	int
orderid	<u>Foreign Key</u>	int
price	Null	<u>float</u>
prodid	Null	int
qty	Null	int
status	Null	varchar(255)
vendorid	Null	varchar(255)

order_id	<u>Foreign Key</u>	int
product_prodid	<u>Foreign Key</u>	int

**Orders:**

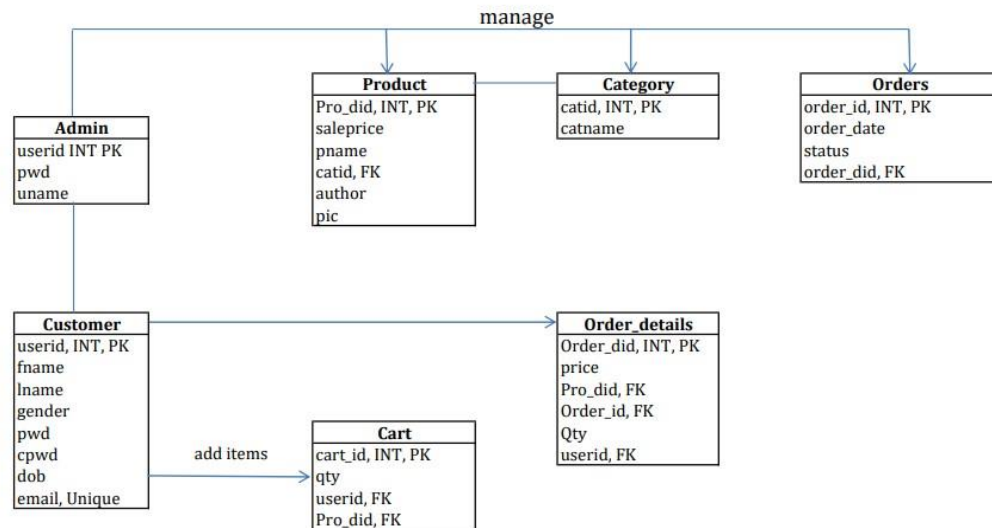
id	Primary Key, Not null	int
cardno	null	varchar(255)
nameoncard	null	varchar(255)
order_date	null	datetime
status	null	varchar(255)
userid	Foreign Key	varchar(255)

**Product:**

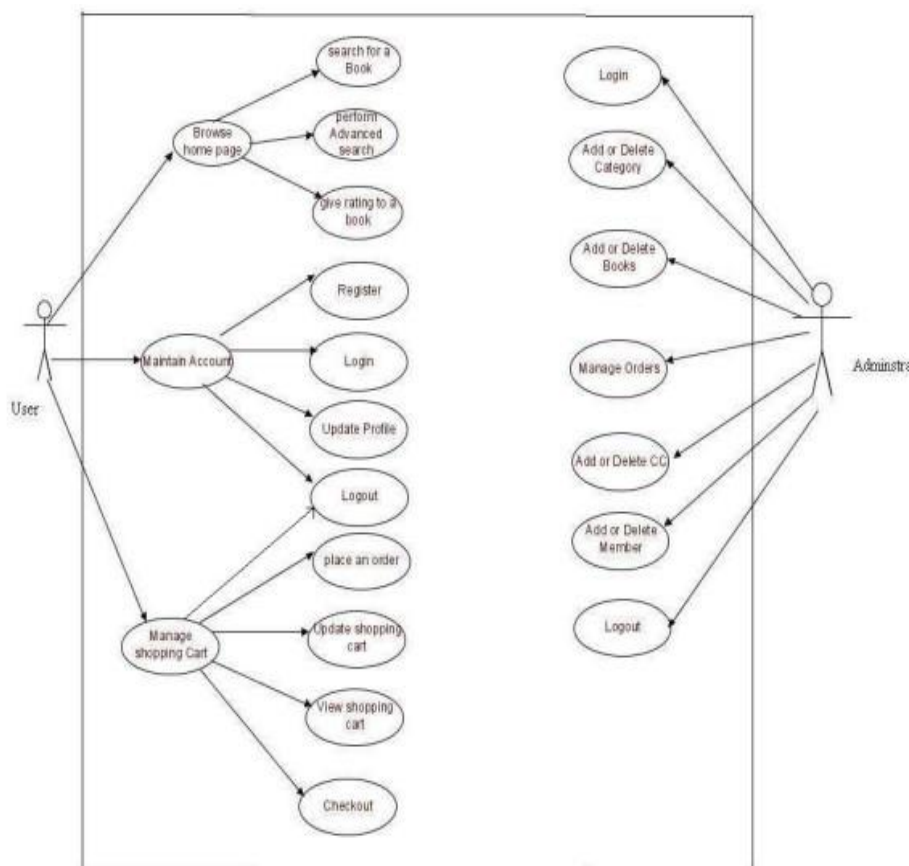
pro_did	Primary Key, Not null	int
author	null	varchar(255)
catid	Foreign Key, Not null	int
pic	null	varchar(255)
pname	null	varchar(255)
saleprice	Not null	float

# UML Diagrams

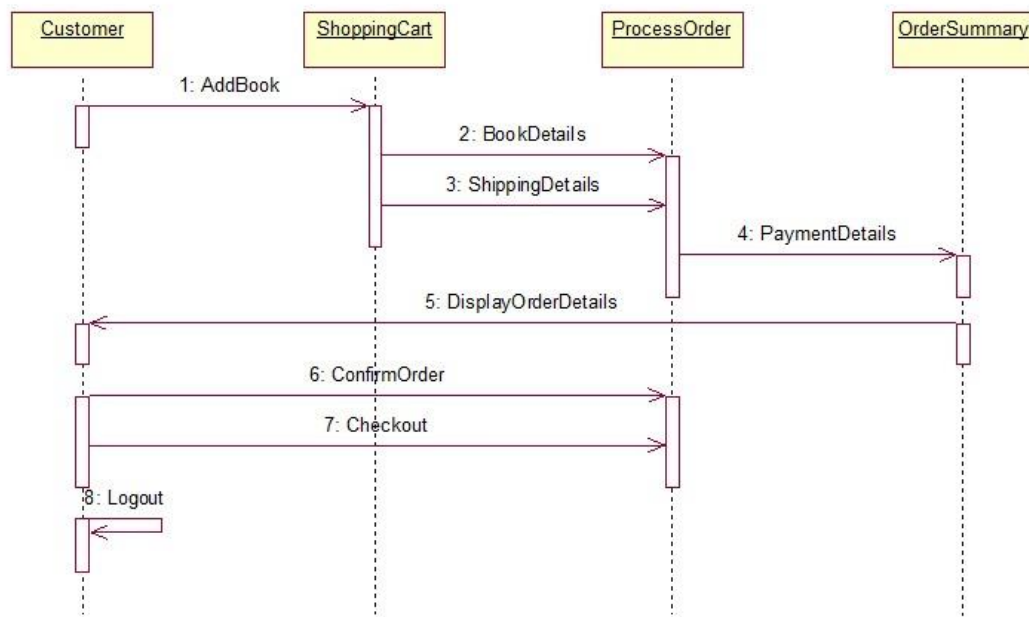
## 1. Class diagram



## 2. Usecase diagram



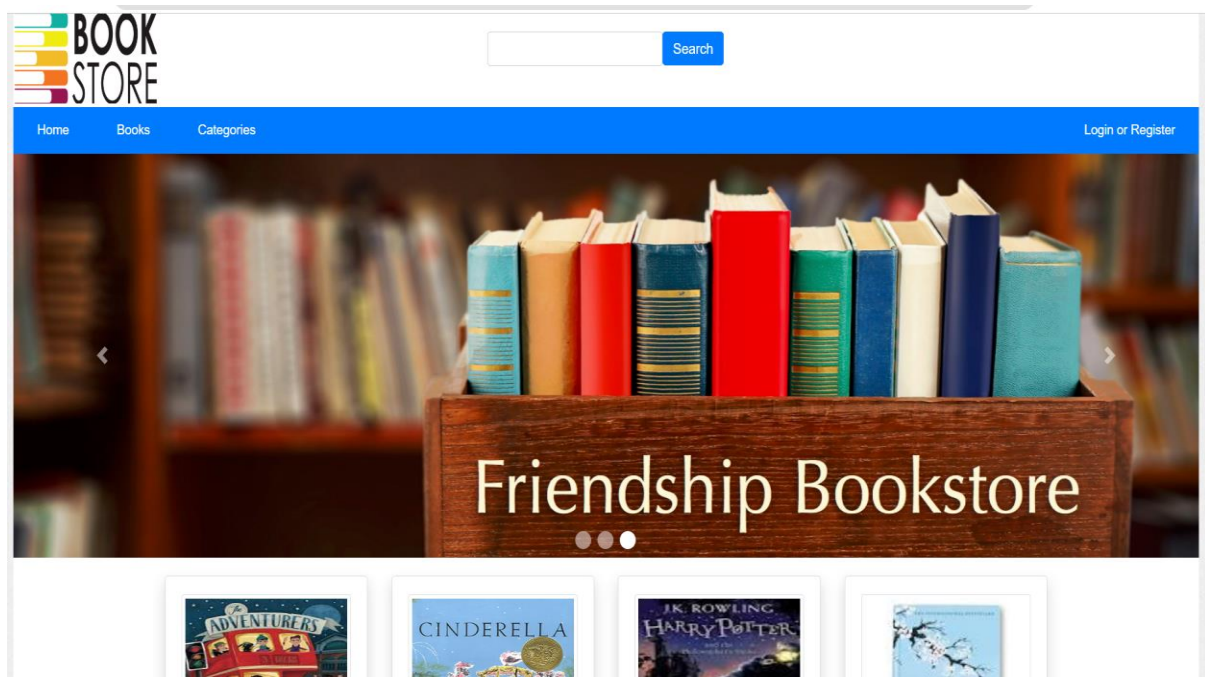
### 3. Sequence Diagram



## Screenshots:

### Customer:

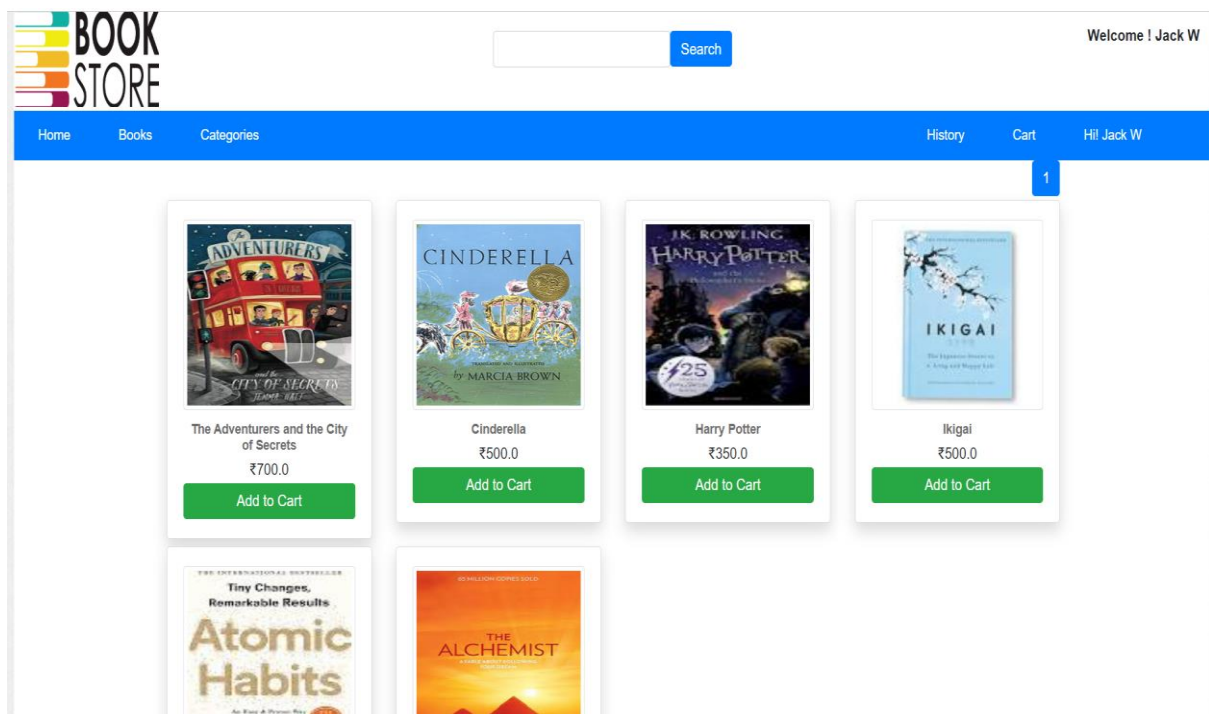
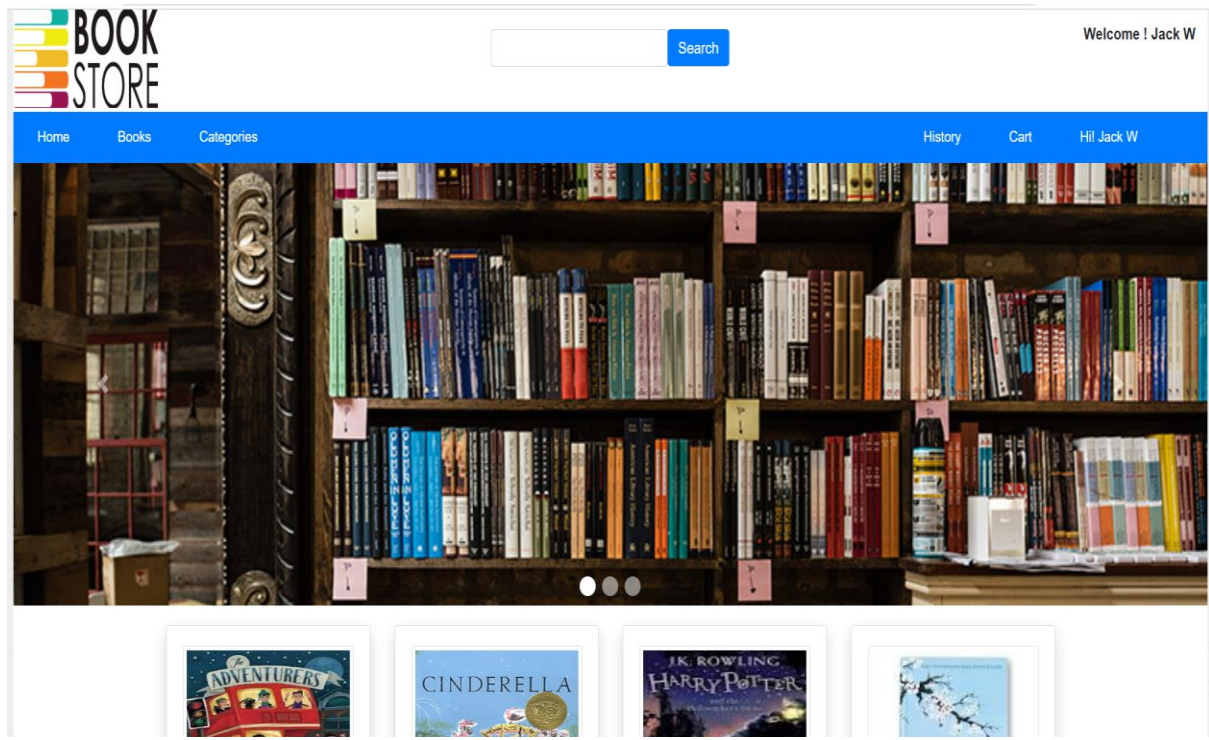
### Home Page:-



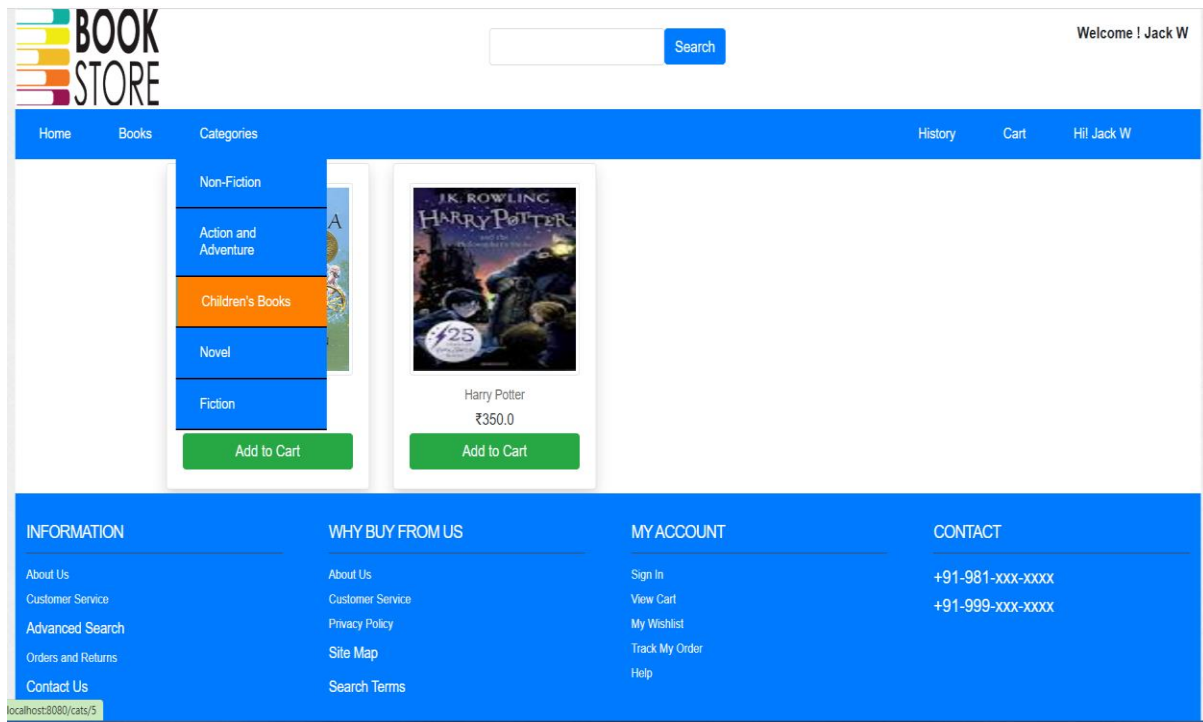
### Login Page

The screenshot shows the login and registration page. It has a blue header with 'Home', 'Books', 'Categories', and 'Login or Register' links. The page is divided into two main sections: 'Existing Customers' and 'Register New Account'. The 'Existing Customers' section has fields for 'User ID' and 'Password', and a 'Sign In' button. The 'Register New Account' section has fields for 'First Name' (Jack), 'Last Name' (W), 'User ID' (2222), 'Date of Birth' (11/11/1995), 'Gender' (Male), 'Email ID' (jack@gmail.com), 'Password', and 'Confirm Password'. There is a 'Create Account' button at the bottom of the registration section. To the right of the registration form is a blue icon of a person with a plus sign. At the bottom of the page is a blue footer with links: 'INFORMATION', 'WHY BUY FROM US', 'MY ACCOUNT', and 'CONTACT'.

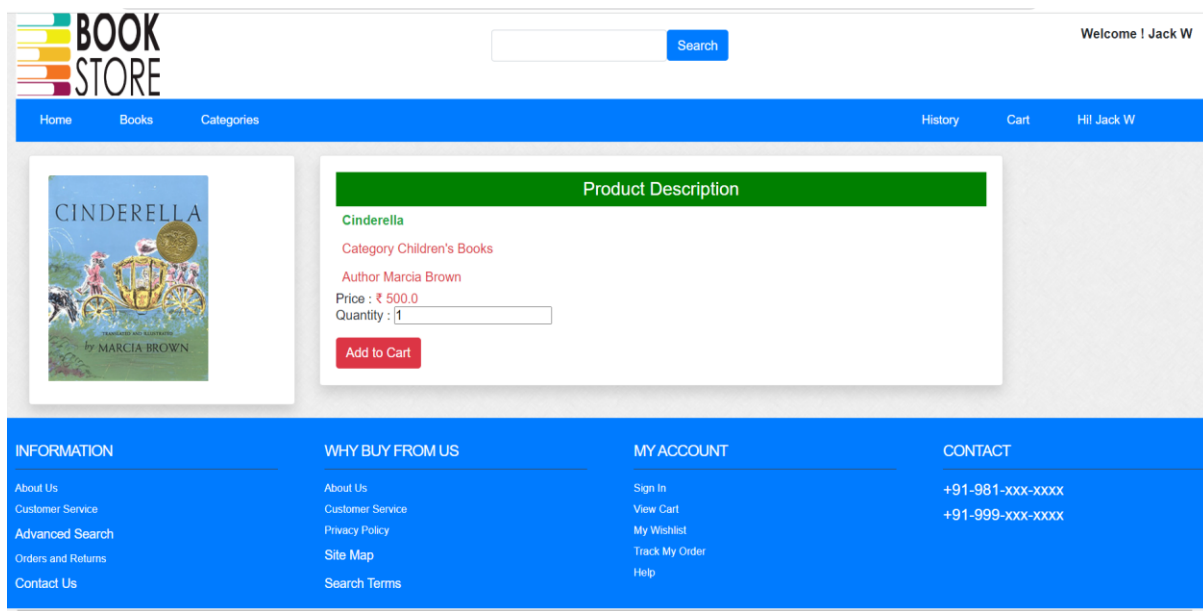
## Myprofile:-




## Categories:-



## Product Description:-



## Cart:-





Welcome ! Jack W

[Home](#)
[Books](#)
[Categories](#)
[History](#)
[Cart 3](#)
[Hi! Jack W](#)

My Cart (3)


Cart(3 items) ₹ 1500



**Cinderella**  
Author **Marcia Brown**  
₹ 500.0

Quantity: 1


X



**The Adventurers and the City of Secrets**  
Author **Jemma Hatt**  
₹ 700.0

Quantity: 1

X



**The Alchemist**  
Author **Paulo Coelho**  
₹ 300.0

Quantity: 1

X

Bill Details

MRP Total ₹ 1500  
Tax ₹ 150.0  
Total Amount ₹ 1650.0

Payment Details

Enter Card No   
Name on Card   
Expiry Date   
CVV Number

INFORMATION


WHY BUY FROM US

MY ACCOUNT

CONTACT

[About Us](#)
[About Us](#)
[Sign In](#)
[+91-981-xxx-xxxx](#)

## Invoice:-



## Invoice

**Date:** 31-Aug-2023

**Invoice No:** 2

**Invoiced To:**  
Jack W  
New Friends Club  
New Delhi  
India

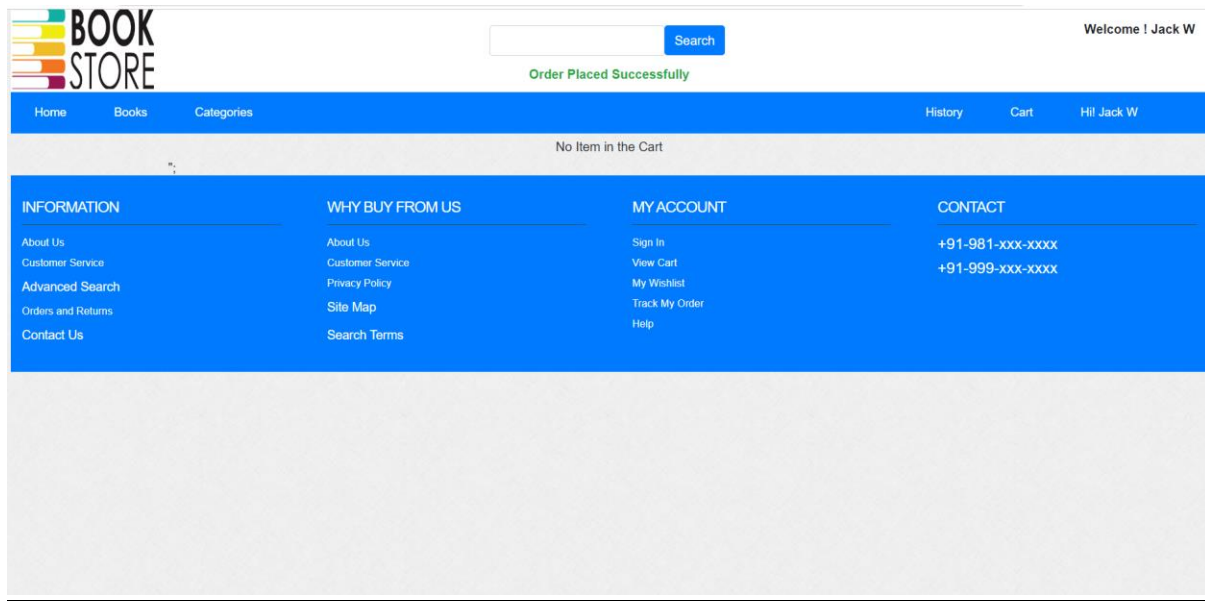
**Pay To:**  
Address Line 1  
Address Line 2  
New Delhi  
India

Product #	Product Name	Price	QTY	Amount
6	Cinderella	500.0	1	500.0
7	The Adventurers and the City of Secrets	700.0	1	700.0
2	The Alchemist	300.0	1	300.0
<b>Sub Total:</b>				1500.0
<b>Tax:</b>				150.0
<b>Total:</b>				1650.0

**NOTE :** This is computer generated receipt and does not require physical signature.

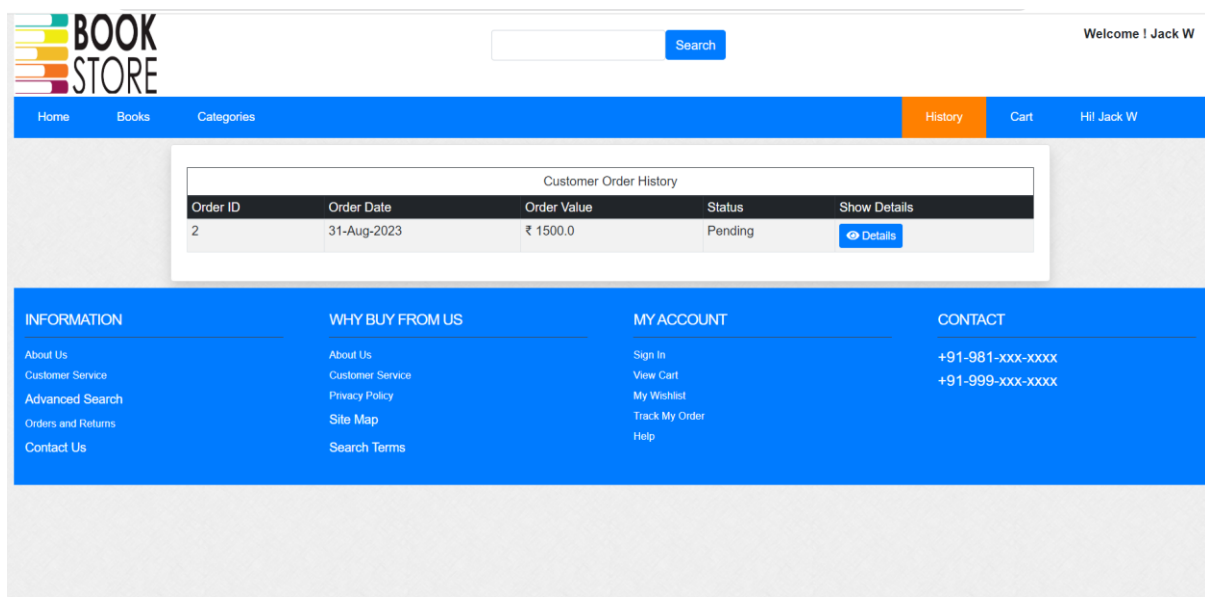


## Order placed



The screenshot shows the Book Store website interface. At the top, there is a search bar and a "Search" button. A green message "Order Placed Successfully" is displayed in the center. The navigation bar includes links for Home, Books, Categories, History, Cart, and a user greeting "Hi! Jack W". Below the navigation bar, a message states "No Item in the Cart". The footer is divided into four columns: INFORMATION, WHY BUY FROM US, MY ACCOUNT, and CONTACT. The INFORMATION column lists links like About Us, Customer Service, Advanced Search, Orders and Returns, and Contact Us. The WHY BUY FROM US column lists links like About Us, Customer Service, Privacy Policy, Site Map, and Search Terms. The MY ACCOUNT column lists links like Sign In, View Cart, My Wishlist, Track My Order, and Help. The CONTACT column lists two phone numbers: +91-981-xxx-xxxx and +91-999-xxx-xxxx.

## History:-

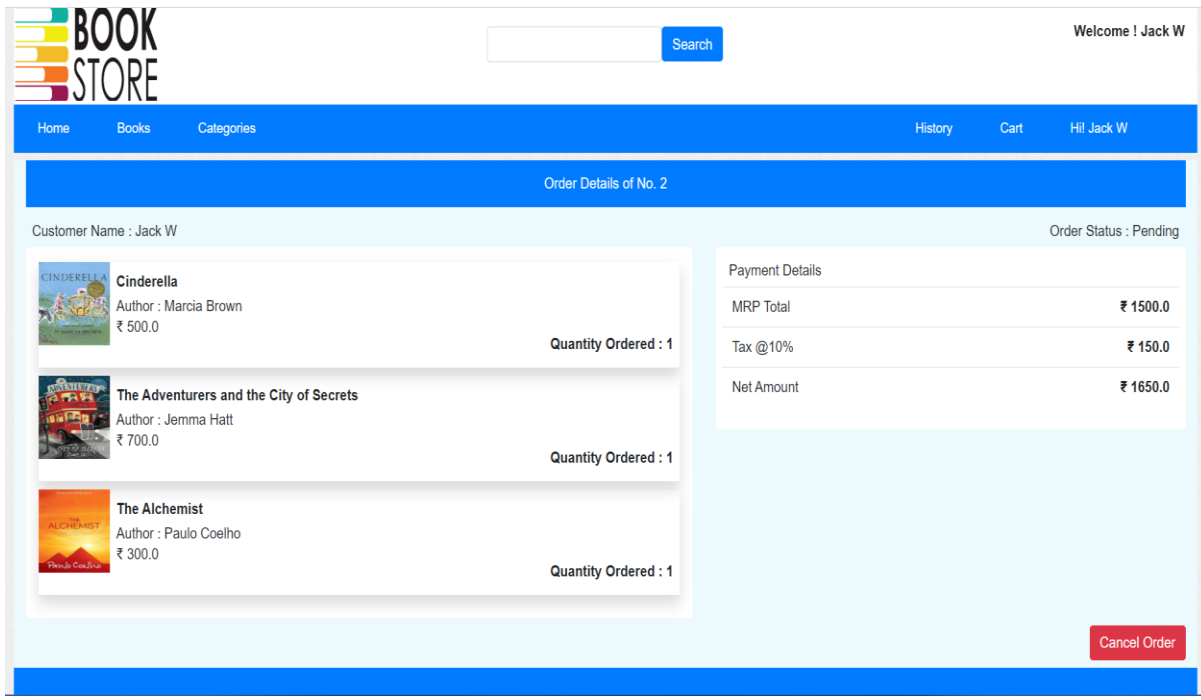


The screenshot shows the Book Store website interface with the "History" tab selected in the navigation bar. A modal window titled "Customer Order History" is displayed, showing a table with the following data:

Order ID	Order Date	Order Value	Status	Show Details
2	31-Aug-2023	₹ 1500.0	Pending	<a href="#">Details</a>

The footer of the website remains the same as in the previous screenshot, with links for INFORMATION, WHY BUY FROM US, MY ACCOUNT, and CONTACT.

## History details:-



The screenshot shows the 'History' page of the 'BOOK STORE'. The user is logged in as 'Jack W'. The page displays 'Order Details of No. 2' with a status of 'Pending'. The order contains three books: 'Cinderella' by Marcia Brown (₹ 500.0), 'The Adventurers and the City of Secrets' by Jemma Hatt (₹ 700.0), and 'The Alchemist' by Paulo Coelho (₹ 300.0). Each book has a quantity of 1. The payment details show an MRP total of ₹ 1500.0, a 10% tax of ₹ 150.0, and a net amount of ₹ 1650.0. A 'Cancel Order' button is visible at the bottom right.

BOOK STORE

Search

Welcome ! Jack W

Home Books Categories History Cart Hi! Jack W

Order Details of No. 2

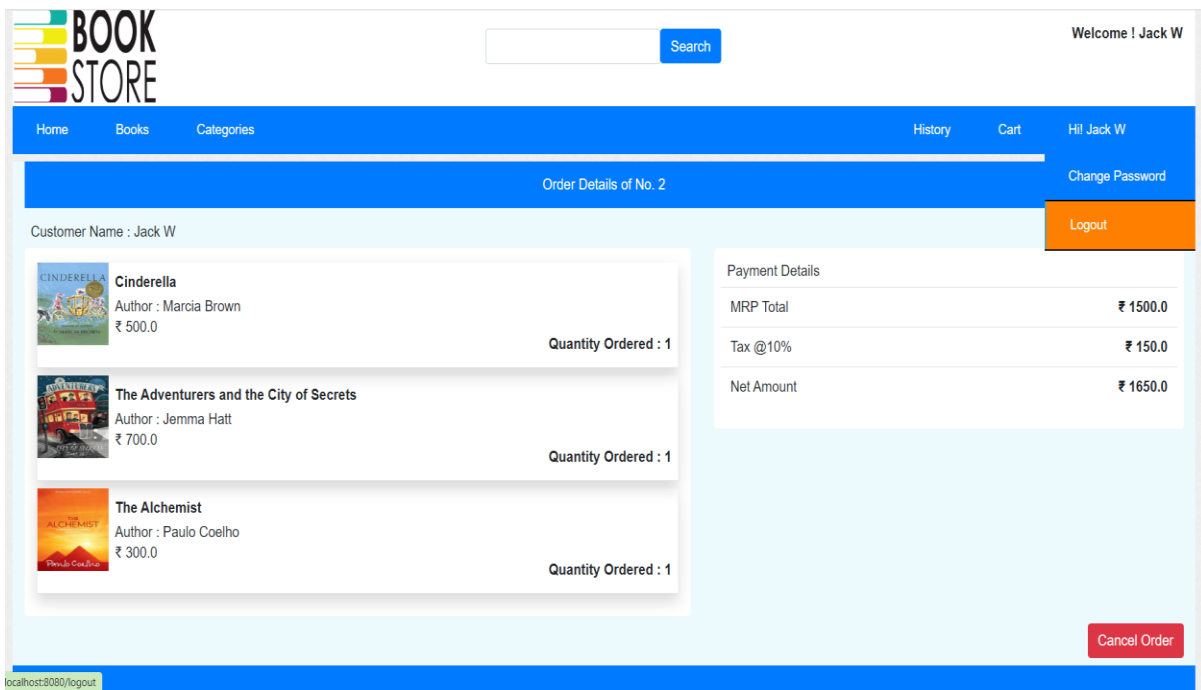
Customer Name : Jack W Order Status : Pending

Book Title	Author	Price	Quantity Ordered
Cinderella	Marcia Brown	₹ 500.0	1
The Adventurers and the City of Secrets	Jemma Hatt	₹ 700.0	1
The Alchemist	Paulo Coelho	₹ 300.0	1

Payment Details	
MRP Total	₹ 1500.0
Tax @10%	₹ 150.0
Net Amount	₹ 1650.0

Cancel Order

## Logout:-



This screenshot is identical to the previous one, but with an additional 'Logout' button (orange) and a 'Change Password' link (blue) in the top right corner of the user profile area. The browser's address bar at the bottom shows 'localhost:2080/logout'.

BOOK STORE

Search

Welcome ! Jack W

Home Books Categories History Cart Hi! Jack W

Order Details of No. 2

Customer Name : Jack W

Change Password

Logout

Book Title	Author	Price	Quantity Ordered
Cinderella	Marcia Brown	₹ 500.0	1
The Adventurers and the City of Secrets	Jemma Hatt	₹ 700.0	1
The Alchemist	Paulo Coelho	₹ 300.0	1

Payment Details	
MRP Total	₹ 1500.0
Tax @10%	₹ 150.0
Net Amount	₹ 1650.0

Cancel Order

localhost:2080/logout

## Admin:

The screenshot displays the Admin interface of the Online Book Store. At the top left is the 'BOOK STORE' logo. A search bar is located at the top center. A blue navigation bar contains links for 'Home', 'Books', 'Categories', and a 'Login or Register' link on the right. The main content area is divided into two sections: 'Existing Customers' and 'Register New Account'.

**Existing Customers (Sign in):**

- Username field: admin
- Password field: masked with asterisks
- Sign in button

**Register New Account:**

- First Name field
- Last Name field
- User ID field
- Date of Birth field: mm/dd/yyyy
- Gender dropdown: -- Select Gender --
- Email ID field
- Password field
- Confirm Password field
- Create Account button

To the right of the registration form is a blue icon of a person with a plus sign.


## Admin profile:-

The screenshot shows the Admin profile dashboard. On the left is a sidebar with the 'BOOK STORE' logo and the text 'Hi! Administrator (Admin)'. Below this is a list of navigation items: 'Dashboard' (highlighted), 'Categories', 'Books', 'Orders', 'Customers', 'Change Password', and 'Logout'.

The main dashboard area is titled 'Dashboard' and features four colored boxes representing key statistics:

Customers	Products	Categories	Orders
2	7	5	2

## Categories:-



Hi! Administrator  
(Admin)

- Dashboard
- Categories**
- Books
- Orders
- Customers
- Change Password
- Logout

### Categories


Category Id	Category Name	Total Products	Action
7	Non-Fiction	2	<a href="#">Edit</a>
6	Action and Adventure	1	<a href="#">Edit</a>
5	Children's Books	2	<a href="#">Edit</a>
4	Biography	0	<a href="#">Edit</a>
3	Mystery	0	<a href="#">Edit</a>
2	Novel	1	<a href="#">Edit</a>
1	Fiction	1	<a href="#">Edit</a>

Category Id

Category Name

[Save Category](#)

## Book list:-









Hi! Administrator  
(Admin)

- Dashboard
- Categories
- Books**
- Orders
- Customers
- Change Password
- Logout

### Books

[Add Book](#)

1

Book Name	Author	Price	Category	Action
 The Adventurers and the City of Secrets	Jemma Hatt	₹ 700.0	Action and Adventure	<a href="#">Delete</a>
 Cinderella	Marcia Brown	₹ 500.0	Children's Books	<a href="#">Delete</a>
 Harry Potter	J. K. Rowling	₹ 350.0	Children's Books	<a href="#">Delete</a>
 Ikigai	hector garcia & francesc miralles	₹ 500.0	Non-Fiction	<a href="#">Delete</a>
 Atomic Habits	James Clear	₹ 500.0	Non-Fiction	<a href="#">Delete</a>
 The Alchemist	Paulo Coelho	₹ 300.0	Fiction	<a href="#">Delete</a>

## Add New Book:-

Hi! Administrator  
(Admin)

- Dashboard
- Categories
- Books**
- Orders
- Customers
- Change Password
- Logout

Books

Book Name

Atomic Habits

The Alchemist

Author

James Clear

Paulo Coelho

Price

₹ 500.0

₹ 300.0

Category

Non-Fiction

Fiction

Action

Delete

Delete

Add Book

1

Add Product

Product Name

Steve Jobs

Author

Walter Isaacson

Category

Biography

Product Photo

Choose File

steve jobs.jpg

Price

450

Save Product

Hi! Administrator  
(Admin)

- Dashboard
- Categories
- Books**
- Orders
- Customers
- Change Password
- Logout


Books

Book saved successfully

1

Book Name	Author	Price	Category	Action
Steve Jobs	Walter Isaacson	₹ 450.0	Biography	Delete
The Adventurers and the City of Secrets	Jemma Hatt	₹ 700.0	Action and Adventure	Delete
Cinderella	Marcia Brown	₹ 500.0	Children's Books	Delete
Harry Potter	J. K. Rowling	₹ 350.0	Children's Books	Delete
Ikigai	hector garcia & francesc miralles	₹ 500.0	Non-Fiction	Delete
Atomic Habits	James Clear	₹ 500.0	Non-Fiction	Delete
The Alchemist	Paulo Coelho	₹ 300.0	Fiction	Delete

## Orders:-




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### Orders List

Order ID	Order Date	Order Value	Status	Show Details
2	31-Aug-2023	₹ 1500.0	Pending	<a href="#">Details</a>
1	31-Aug-2023	₹ 1200.0	Confirmed	<a href="#">Details</a>

## Order details:-



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### Order Details




Customer Name :

Jack W  
Gender: Male


Confirm Order

Order Date :

2023-08-31 23:44:20.0

Product	Price	Quantity	Amount
 Cinderella	₹ 500.0	1	₹ 500.0
 The Adventurers and the City of Secrets	₹ 700.0	1	₹ 700.0
 The Alchemist	₹ 300.0	1	₹ 300.0
<b>Total</b>			<b>₹ 1500.0</b>

## Confirm Order:-



Hi! Administrator  
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### Orders List

Order Confirmed successfully

Order ID	Order Date	Order Value	Status	Show Details
2	31-Aug-2023	₹ 1500.0	Confirmed	<a href="#">Details</a>
1	31-Aug-2023	₹ 1200.0	Confirmed	<a href="#">Details</a>

## Customer list:-



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### Customers List

User Id	User Name	Password	Gender	Email Id	Date of Birth
1111	Pratibha K	1234	Female	pratibhakokil@gmail.com	29-Sept-1998
2222	Jack W	1234	Male	jack@gmail.com	11-Nov-1995

## **References:**

### **Front End:-**

- <https://getbootstrap.com/>
- <https://en.wikipedia.org/wiki/HTML5>
- <https://www.w3schools.com/html/>
- <https://www.w3schools.com/css/>

### **Database:-**

- <https://www.w3schools.com/MySQL/default.asp>
- <https://dev.mysql.com/doc/mysql-tutorial-excerpt/8.0/en/tutorial.html>

### **Backend:-**

- <https://spring.io/guides/gs/spring-boot/>
- <https://docs.spring.io/spring-data/jpa/docs/current/api/org/springframework/data/jpa/repository/JpaRepository.html>
- <https://springframework.guru/spring-framework-annotations/>
- <https://www.javaguides.net/p/hibernate-tutorial.html>