

IACSD



**INSTITUTE FOR ADVANCED  
COMPUTING AND  
SOFTWARE DEVELOPMENT  
AKURDI, PUNE**

Documentation On

**“Online Book Store”**

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**Project Guide**

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## **1. Introduction**

Online Book store is an online web application where the customer can purchase books online, through a web browser. The customers can select a book; later can add to the shopping cart and finally purchase using credit card transaction. The users can login using his account details or new customers can set up an account very quickly. The books are divided into many categories based on subject like Fiction, History, Adventure, etc. anonymous

The web application will provide the basic functionalities to the users, i.e. selecting the book, putting the same in the cart and purchasing it in the end. Rather than this the users will also get the facility to browse the complete site either being a guest or as a registered customer. But in order to purchase users have to become a registered customer.

The Administrator is responsible and authorized to fill up the data into the database as well as Update the data accordingly. The data filled by person during registration will be entered into database by the utility provided. Our software is easy to use for both beginners and advanced users. It features a familiar and well thought-out, an attractive user interface.

### **1.1 Purpose**

With the online bookstore system, consumers do not need to blindly go to various places to find their own books, but only in a computer connected to the Internet log on online bookstore system, in the search box, type you want to find Of the book information retrieval, you can efficiently know whether the site has its own books, if you can online direct purchase, if not, you can change the home bookstore to continue to search or provide advice to the seller in order to supply, This greatly facilitates every consumer, saving time and labor.

The online bookstore system can not only reduce costs, save time, space, to bring convenience to everyone, but also to promote the development of the logistics industry, serve three purposes, mutual benefit. More importantly, in today's world, the increasingly close ties between countries, more frequent exchanges, the economy tends to globalization, which promote the future development of online bookstore system has some practical significance.

### **1.2 Problem Statement**

Manual Management of any task is Time consuming having lots of errors, which will lead to corrupt records in registers. In case of Existing Management System, authorized person has to face a lot of problems. Few of them are as follows:

- Change of profile's information of any Customer requires overwriting in existing records every time.
- In order to delete the record of a particular customer, the person maintaining records will have to search the record of that particular person in every related register.
- For Issuing Order, first the Product register reference is to be made, which is time consuming process. Manual calculation of payment is required, which is error prone.
- Reports are generated manually.
- Searching is quite hectic task for a person. No way to check the different queries which may arise at various stages of processing.
- If any reference is to be made to any particular register and it is not available, then no further work can be done.
- While modifying a record, the person will have to first search the record and then make changes of that particular record in every related register.

### **1.3 Project Scope**

The scope of this project Online Book Store is to develop a web application to automate the entire book purchasing process and the management and maintenance of records like transaction records, calculating the demand of various books, generating sales statistics and other basic tasks that are required by the manager. This Application will be very useful to the large book-shops as well as the customers. The system will save lots of time as it will perform all the necessary tasks for purchasing books and maintaining the records in much lesser time. As a result both the customer and the shop owner will be benefited. Therefore, this software will be very economical in every respect.

### **1.4 Aim and Objective**

The main objective of the project is to create an online book store that allows users to search and purchase a book online based on title, author and subject. The selected books are displayed in a tabular format and the user can order their books online through credit card payment. Using this Website the user can purchase a book online instead of going out to a book store and wasting time.

## **2. Overall Description**

### **2.1 Product perspective**

The online bookstore system will interact with a credit card processing system in order to process purchases from the website. The system will also interact with the Bookstore's Inventory database, which records the quantity of books available for sale in the inventory.

## **2.2 Advantages**

- Customers can get their book delivered instead of actually going and buying the book. They can make payment online itself.
- Managing of inventory in the shop for shopkeeper becomes easier as customers are not visiting and ordering online.
- This system saves both time and travelling cost of customers.
- User can get to know different kinds of books that they were unaware of by just searching in the system using keywords.

## **2.3 Users and Characteristics**

### **2.3.1 Admin:**

- Add Books
- Insert, Update, Delete Book information
- Insert, Update, Delete Author information
- Insert, Update, Delete Category information
- View list of all customers
- Manage all Orders
- Manage Payment Information
- Manage Shipping details
- Manage help section
- View feedback and queries
- Generate reports based on sale, demand etc

### **2.3.2 User:**

- Guest user can only search books and view details.
- Register user can search books
- Order books
- Save books in wishlist
- Write reviews
- Read reviews
- Write queries to admin
- Manage their account
- View order history

### **3 Operating Environment:**

#### **3.1 Server Side:**

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 2GB OS: Windows 8.1, Linux 6

Database: Oracle 11g

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 1GB OS: Windows 7, Linux

#### **3.2 Design and Implementation Constraints:**

- The application will use Ajax, JavaScript, jQuery and css as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since Society Management system is a web-based application, internet connection must be established.
- The Society Management System will be used on PCs and will function via internet or intranet in any web browser.

Specific Requirement

External Interface Requirements:

### **3.3 User Interfaces:**

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

### **3.4 Hardware Interfaces:**

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

### **3.5 Application Interfaces:**

OS: Windows 7, Linux

Web Browser: The system is a web-based application; clients need a modern web browser such as Mozilla Firefox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

### **3.6 Communications Interfaces:**

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.



## 4. System Design

### 4.1 Activity Diagram: Admin

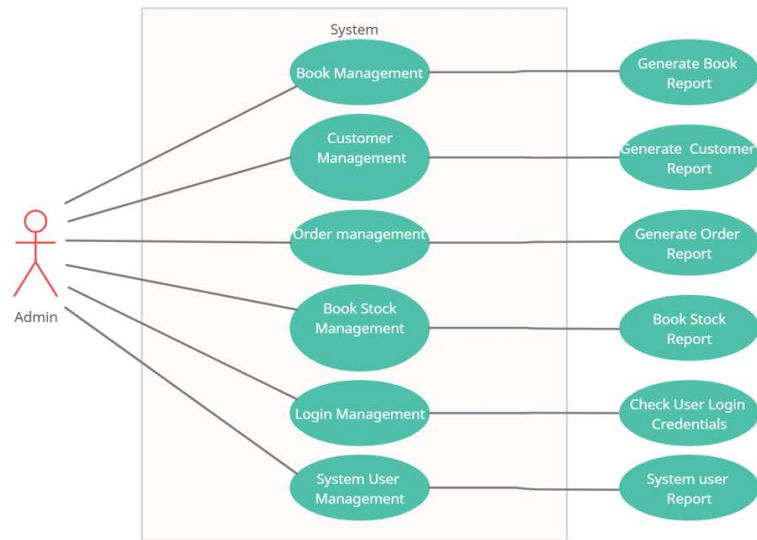


Figure 1. Admin Activity Diagram

User :



Figure 2. User Activity Diagram

#### 4.2 Use Case Diagram: Admin

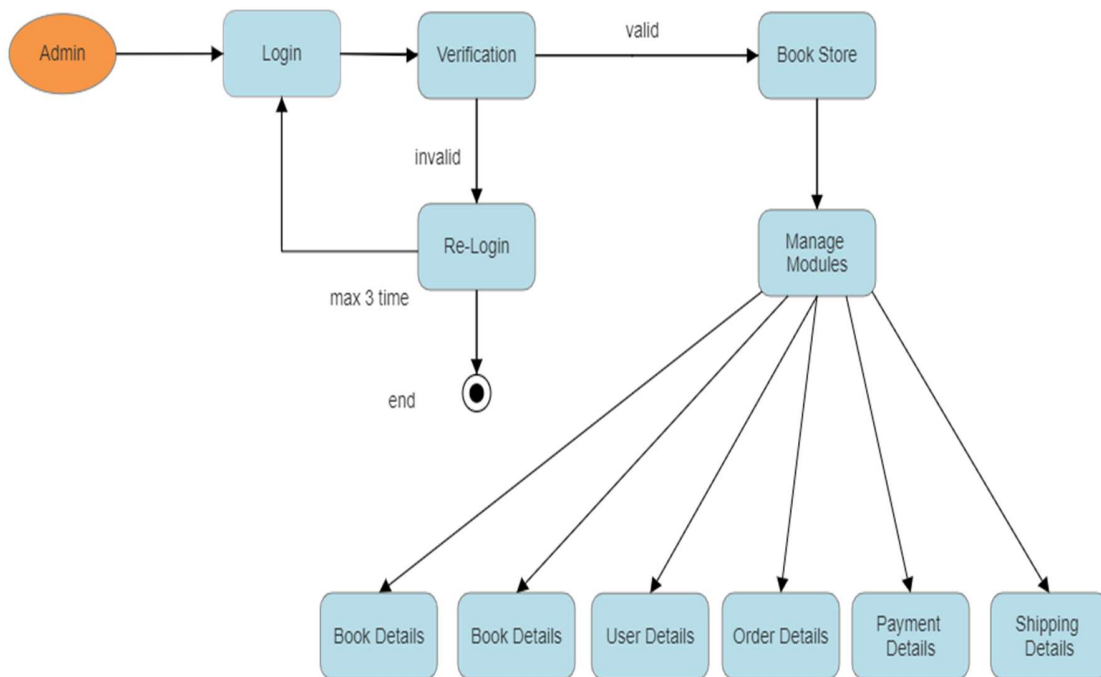


Figure 3. Admin Use Case Diagram

#### User:

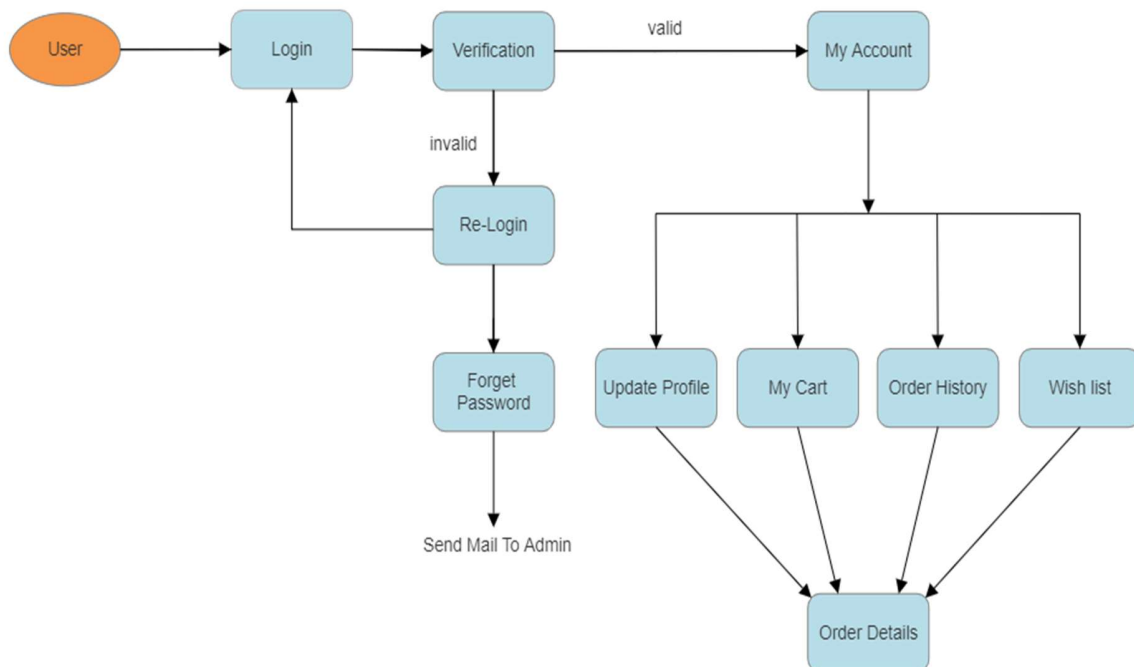
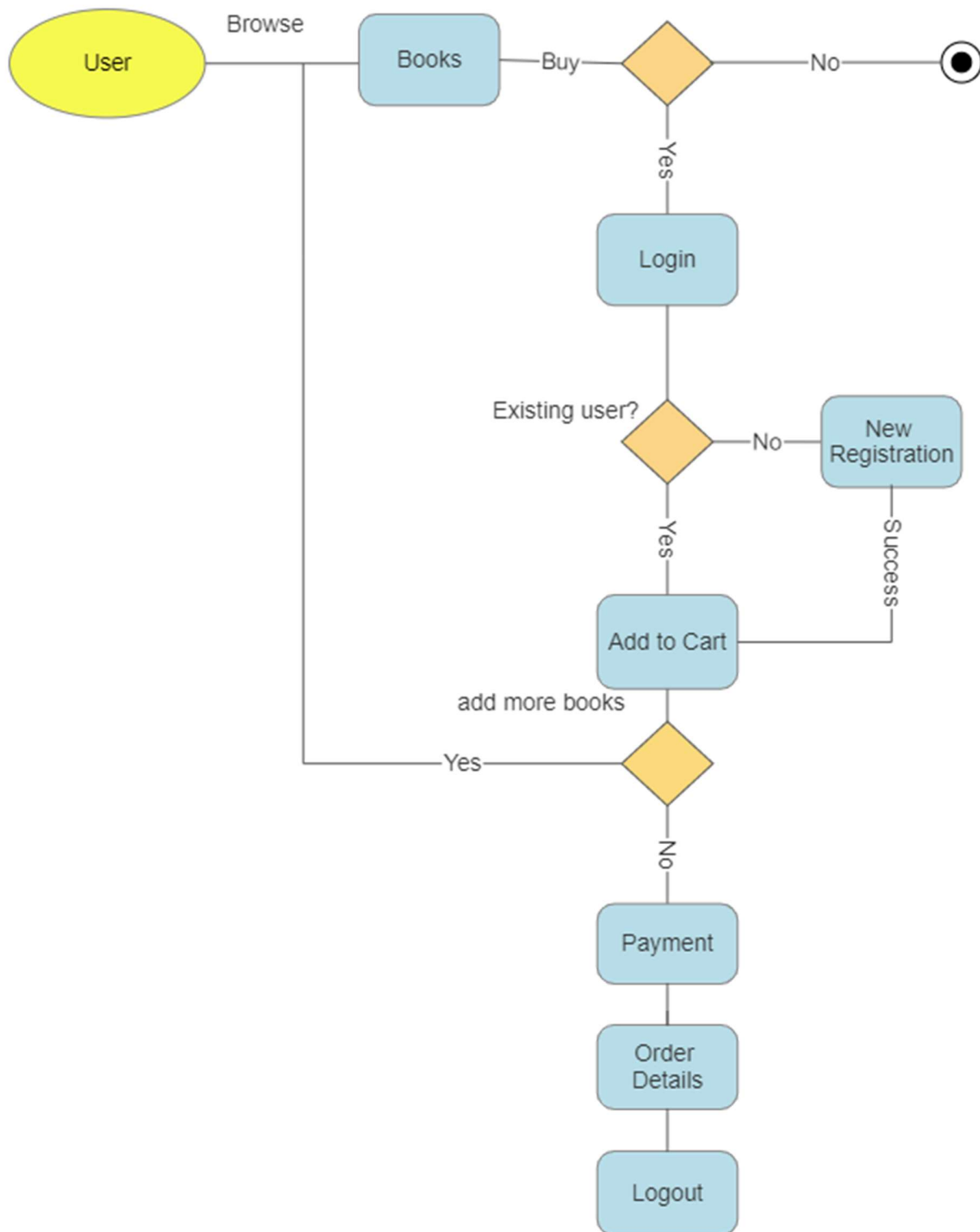


Figure 4. User Use Case Diagram

#### 4.3 Data Flow Diagram



**Figure 5.** Data Flow Diagram

#### 4.4 ER Diagram

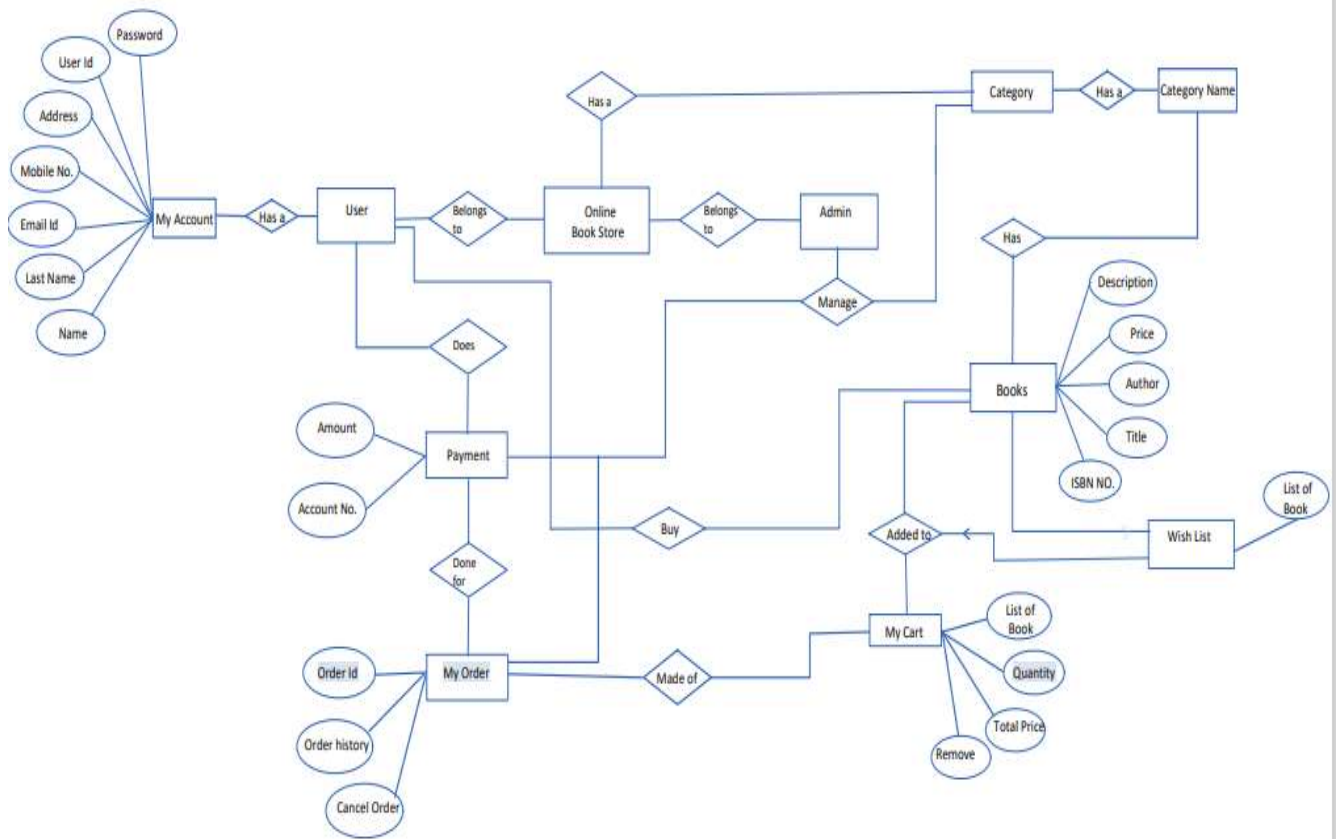


Figure 6. E R Diagram

## 5. Table Structure:

### 5.1 Address

Field	Type	Null	Default	Key
Addressid	Int	No	Null	PRI AUTO INCREMENT
Address	Vatchar(1000)	No	Null	
City	Varchar(30)	No	Null	
State	Varchar(30)	No	Null	
Pincode	Varchar(10)	No	Null	
Mobilenumber	Varchar(10)	No	Null	
userid	Int	Yes	Null	Fk

### 5.2 Author

Field	Type	Null	Default	Key
Authorid	Int	No	Null	PRI Auto Increment
Authorname	Varchar(30)	No	Null	
description	Varchar(1000)	No	Null	

### 5.3 Books

Field	Type	Null	Default	Key
Bookid	Int	No	Null	PRI Auto Increment
Title	Varchar(30)	No	Null	
Publication	Varchar(50)	No	Null	
Isbn	Varchar(30)	No	Null	UNI
Price	Double	Yes	Null	
Description	Varchar(2000)	Yes	Null	
Quantity	Int	Yes	Null	
Imageurl	Varchar(500)	No	Null	
Discount	Double	Yes	Null	
Arrivaldate	Date	No	Null	
Language	Varchar(10)	Yes	Null	
Pages	Int	Yes	Null	
Categoryid	Int	Yes	Null	Fk
Authorid	Int	Yes	Null	Fk

#### 5.4 Category

Field	Type	Null	Default	Key
Categoryid	Int	No	Null	PRI Auto Increment
Categoryname	Varchar(30)	No	Null	UNI
description	Varchar(1000)	No	Null	

#### 5.5 Mycart

Field	Type	Null	Default	Key
Cartid	Int	No	Null	PRI Auto Increment
Quantity	Int	Yes	Null	
Userid	Int	Yes	Null	Fk
bookid	Int	Yes	Null	Fk

#### 5.6 Orders

Field	Type	Null	Default	Key
Id	Int	No	Null	PRI Auto Increment
Orderid	Int	No	Null	
Quantity	Int	Yes	Null	
Userid	Int	Yes	Null	Fk
bookid	Int	Yes	Null	Fk

#### 5.7 Payment Info

Field	Type	Null	Default	Key
Payid	Int	No	Null	PRI Auto Increment
Cardno	Varchar(16)	No	Null	
expiryyear	Varchar(4)	No	Null	
expirymonth	Varchar(2)	No	Null	
Cvvno	Varchar(3)	No	Null	
userid	Int	Yes	Null	Fk

### 5.8 Review

Field	Type	Null	Default	Key
Reviewid	Int	No	Null	PRI Auto Increment
Rating	Int	Yes	Null	
Review	Varchar(2000)	Yes	Null	
Reviewdate	Date	Yes	Null	
Userid	Int	Yes	Null	Fk
Bookid	Int	Yes	Null	Fk

### 5.9 User

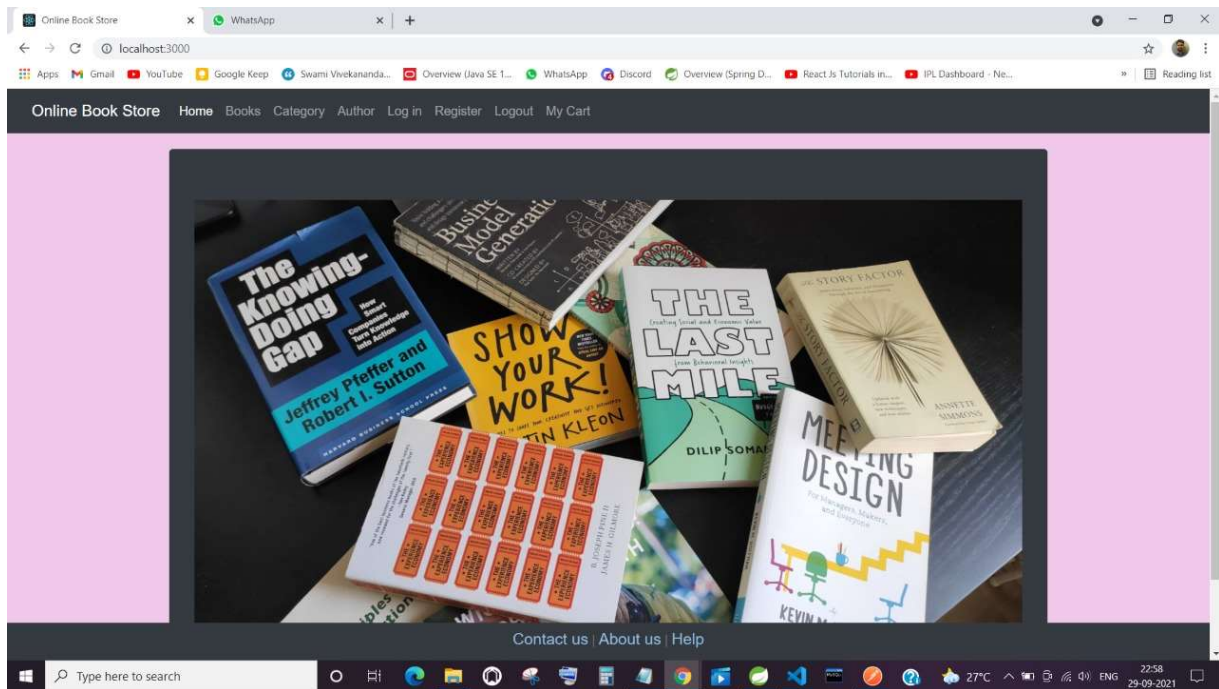
Field	Type	Null	Default	Key
Userid	Int	No	Null	PRI Auto Increment
Firstname	Varchar(30)	No	Null	
lastname	Varchar(30)	No	Null	
Emailid	Varchar(30)	No	Null	UNI
Mobilenumber	Varchar(10)	No	Null	UNI
Password	Varchar(30)	No	Null	
gender	Varchar(6)	No	Null	

### 5.10 Wishlist

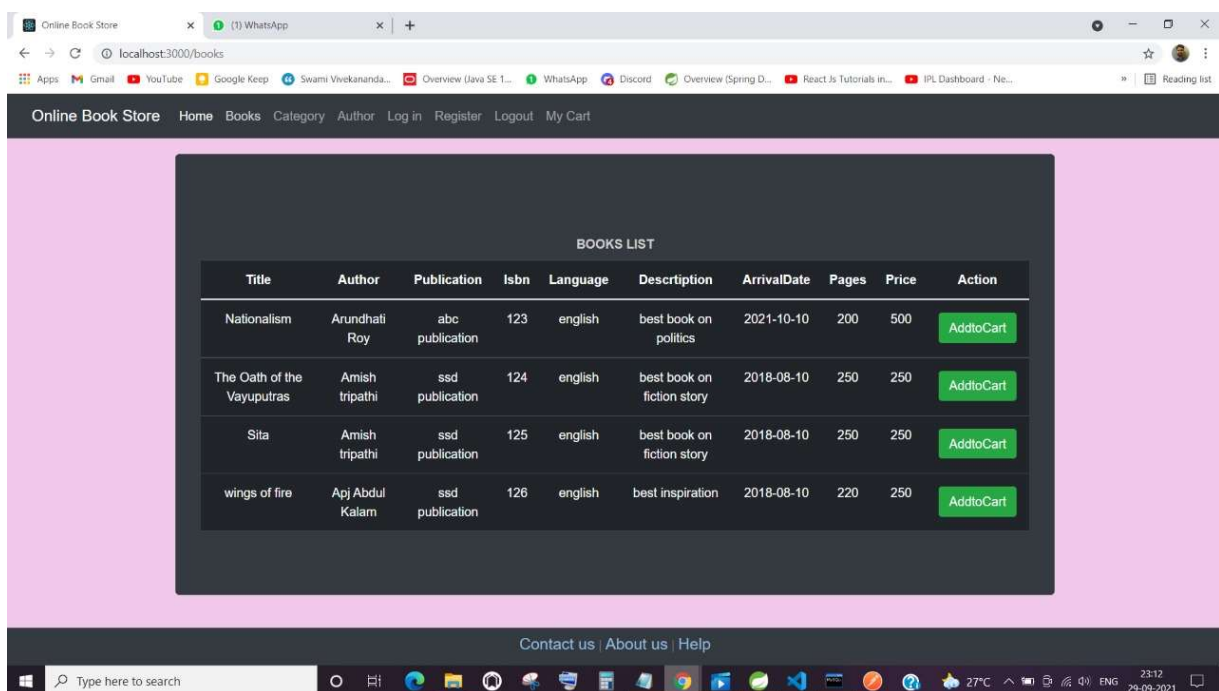
Field	Type	Null	Default	Key
Wishlistid	Int	No	Null	PRI Auto Increment
Userid	Int	Yes	Null	Fk
Bookid	Int	Yes	Null	Fk

## 6. Online Book Store

### 6.1 Home Page



### 6.2 Book List





## 6.3 Category List

The screenshot shows a web browser displaying the 'Online Book Store' application. The page title is 'Online Book Store' and the URL is 'localhost:3000/category'. The navigation bar includes links for Home, Books, Category, Author, Log in, Register, Logout, and My Cart. The main content area features a table titled 'CATEGORY LIST' with three columns: Category, Discription, and Action. The table lists six categories: Fictinal story, History, Life Story, Educational, Inspirational, and Politics. Each category has a corresponding 'GoToBooks' button in the Action column. The footer contains links for Contact us, About us, and Help.

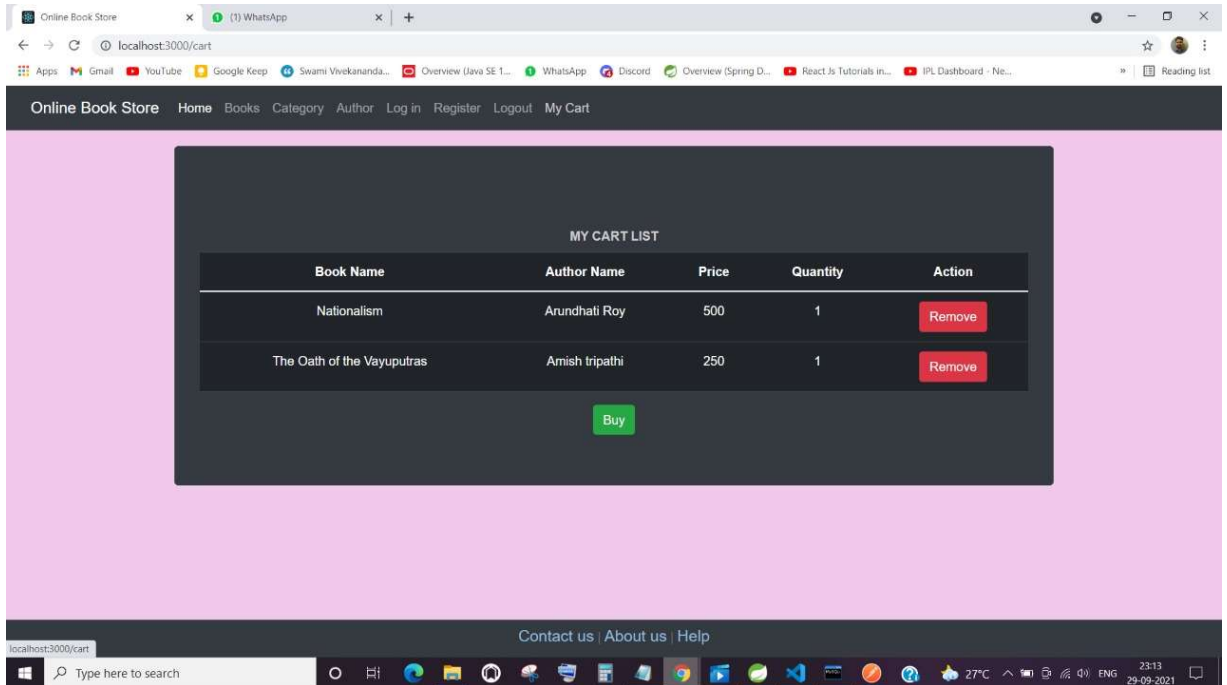
Category	Discription	Action
Fictinal story	Best fictional stories..	<a href="#">GoToBooks</a>
History	Best History books..	<a href="#">GoToBooks</a>
Life Story	Best Life stories books..	<a href="#">GoToBooks</a>
Educational	Best Educational books..	<a href="#">GoToBooks</a>
Inspirational	Best inspiring books..	<a href="#">GoToBooks</a>
Politics	Best politicsbooks..	<a href="#">GoToBooks</a>

## 6.4 Author List

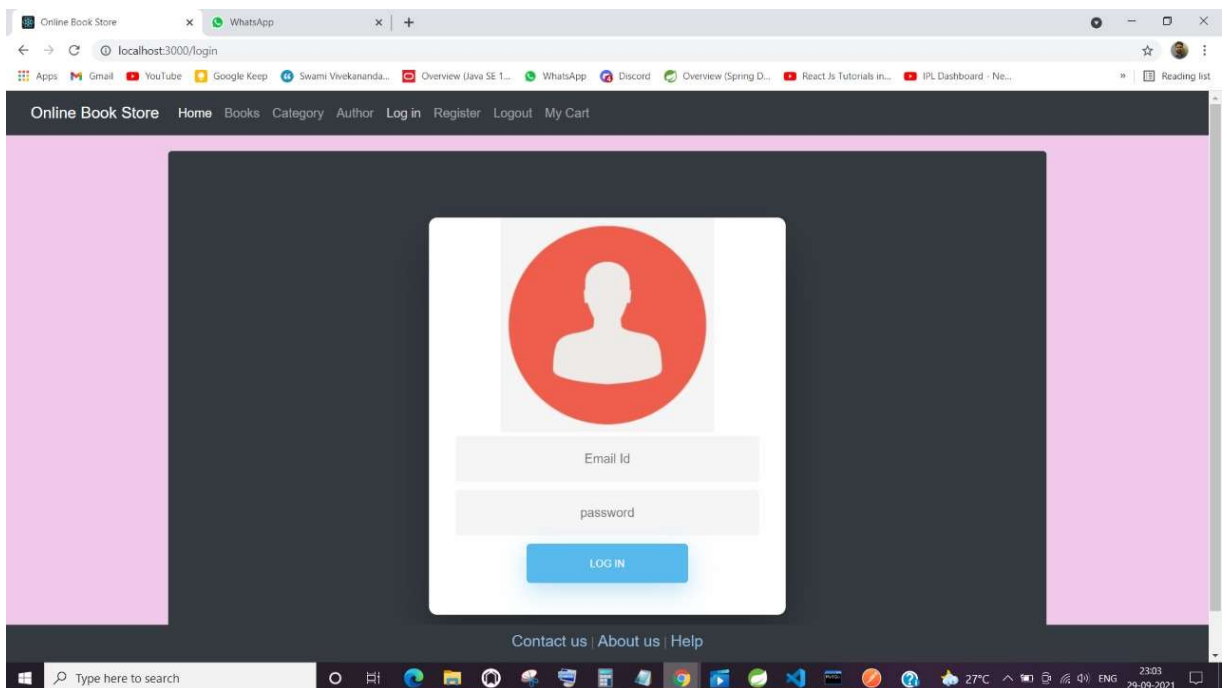
The screenshot shows a web browser displaying the 'Online Book Store' application. The page title is 'Online Book Store' and the URL is 'localhost:3000/author'. The navigation bar includes links for Home, Books, Category, Author, Log in, Register, Logout, and My Cart. The main content area features a table titled 'AUTHOR LIST' with three columns: Author Name, Discription, and Action. The table lists six authors: Amish tripathi, Henry Freeman, Sudha muthi, Apj Abdul Kalam, Arundhati Roy, and Ravindranath Tgore. Each author has a corresponding 'GoToBooks' button in the Action column. The footer contains links for Contact us, About us, and Help.

Author Name	Discription	Action
Amish tripathi	Best indian author,mostly books are base on fictional story	<a href="#">GoToBooks</a>
Henry Freeman	Best author,mostly books are base on History	<a href="#">GoToBooks</a>
Sudha muthi	Best indian author,mostly books are base on life story	<a href="#">GoToBooks</a>
Apj Abdul Kalam	mostly books are base on inspirational story	<a href="#">GoToBooks</a>
Arundhati Roy	Best indian author,mostly books are base on life story	<a href="#">GoToBooks</a>
Ravindranath Tgore	Best indian author	<a href="#">GoToBooks</a>

## 6.4 Mycart



## 6.5 Login



## 6.6 Registration

The screenshot shows a web browser window with the URL `localhost:3000/register`. The page has a dark header with the site name and navigation links. The main content area has a pink background and a dark grey registration form. The form has a purple header 'New User Registration' and six input fields: First Name, Last Name, Email Id, Password, mobilenumber, and gender. A blue 'Submit' button is at the bottom. The footer contains contact and help links.

Online Book Store | Home | Books | Category | Author | Log in | Register | Logout | My Cart

### New User Registration

First Name\* Password \*

Last Name\* mobilenumber \*

Email Id\* gender \*

Submit

Contact us | About us | Help

## 6.7 About Us

The screenshot shows the 'About Us' page of the Online Book Store. The page features a dark grey background with white text. It includes the site name, a quote, and three columns of text describing the store's reputation. The footer has contact and help links.

Online Book Store | Home | Books | Category | Author | Log in | Register | Logout | My Cart

### ABOUT US

Online Book Store

"There is no friend as loyal as a book."

Best Book store in town

Top Rank Book Sore

We are one of the highest rank book seller in town.

Best Online Book Store

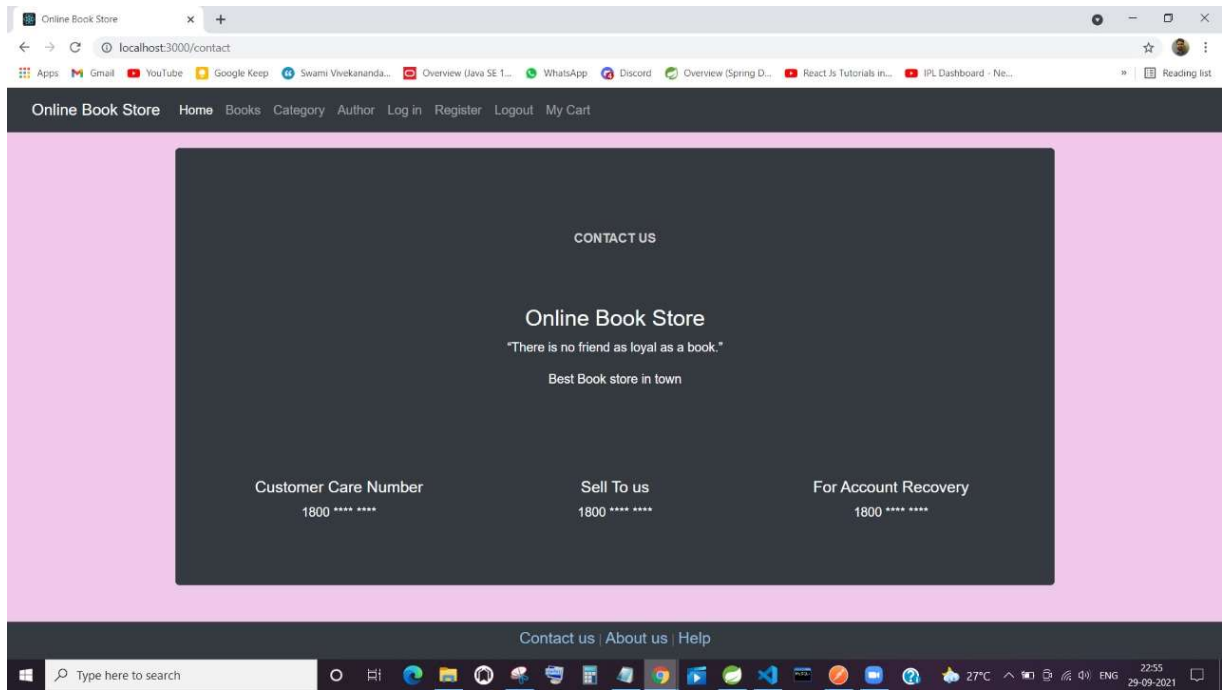
We are one of the best online book seller.

Top low price book seller

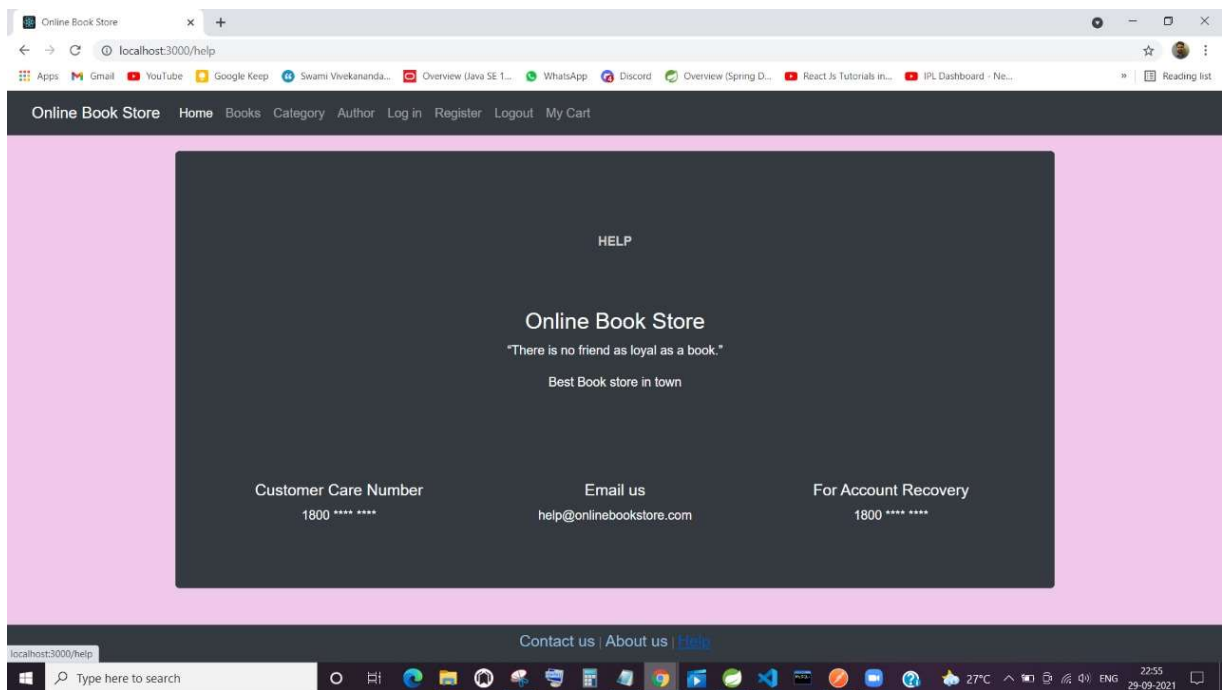
Selling low price books.

Contact us | [About us](#) | Help

## 6.8 Contact Us



## 6.9 Help



## **7. Conclusion**

This project presents an online book store website that offers to sell books to the user online. The system is practical and easy to use because it was designed with clear and friendly user interfaces. In addition, checking the user input before connecting to the database is used as a method to ensure database protection. The administrator control panel makes adding and removing books a dynamic process without compromising the security of the database.

Online bookstore has many advantages compared to its counterparts such as physical book store, the online bookstore allows its user to shop at one place where in physical store the books are scattered at the different places which consumes a lot of time and online bookstore helps in saving that time and it also avoids the problem of unavailability of books at physical store as numerous vendors from different places sell their books at one place. This project is efficient in maintaining users records and can perform operations on it, also reduces the work load on the shop owner of knowing the quantity of books available and which books are available and keeps the records of how many books are purchased and sold.

### **7.1 Future Scope**

The project contains insert, update, delete, and retrieve functionalities for both user and admin. Project does not contain payment processing facility so that can be added in the system. User can select multiple categories and can receive updates about the new arrival books in that section using email or mobile. User can see payment and order history. Admin can have facility to generate reports for daily and monthly orders in pdf, excel etc format.

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