

# Project Report on Online Bookshop System



A REPORT SUBMITTED AS PART OF THE REQUIREMENTS FOR  
THE  
DIPLOMA IN  
**Advanced Computing**  
AT Sunbeam Institute of Information Technology, Pune

by

**Hemkant Patil - 230344220138**  
**Abdul Morve - 230344220119**  
**Shreyash Dhanawade - 230344220048**  
**Sahil Nayakawade - 230344220115**

on

1ST SEPTEMBER, 2023

Guided by Mr.Nilesh Pawar

# **Abstract**

The report presents the development of an Online Bookshop System, a user-friendly platform enabling efficient browsing, selection, and purchase of a wide range of books. This project highlights key features including user authentication, a comprehensive book catalog, search functionality, streamlined checkout, and administrative tools for order and inventory management. The report outlines the development process, challenges overcome, and the system's potential to reshape the online book retail landscape by enhancing user experience and facilitating effective bookshop operations.

# Acknowledgements

We would like to express our sincere gratitude to all those who contributed to the successful completion of the BookTopia - an Online Bookshop System project and the creation of this report.

First and foremost, we extend our heartfelt thanks to our project supervisor **Mr.Nilesh Pawar**, whose guidance, insights, and support were invaluable throughout the entire development process. Your expertise and encouragement significantly enriched the project.

We are also indebted to the team members who collaborated tirelessly, bringing their unique skills and dedication to the project. Each member's contribution played a pivotal role in shaping the system into what it is today.

We extend our appreciation to the library and resources provided by **Sunbeam Institute of Information Technology** that facilitated our research and implementation efforts. The knowledge we gained from various sources greatly informed our project's development.

Furthermore, we would like to thank our **friends and peers** for their encouragement and constructive feedback, which continually motivated us to strive for excellence.

Last but not least, we express our deep gratitude to our families for their unwavering support and understanding during the demanding phases of this project.

*Thank you for being an integral part of our journey.*

# **Declaration**

I confirm that the work contained in this PG-DAC project report has been composed solely by ourselves and has not been accepted in any previous application for a diploma. All sources of information have been specifically acknowledged and all verbatim extracts are distinguished by quotation marks.

Signed ..... Date .....  
Hemkant Patil  
230344220138

Signed ..... Date .....  
Abdul Morve  
230344220119

Signed ..... Date .....  
Shreyash Dhanawade  
230344220048

Signed ..... Date .....  
Sahil Nayakawade  
230344220115

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# **Chapter 1**

## **Introduction**

The following chapter delves into the intricate details of the Online Bookstore System project, an innovative digital platform designed to redefine the way individuals explore and acquire books. This chapter presents an in-depth exploration of the system's architecture, user interface, functionalities, and underlying technologies. By offering users an immersive experience in discovering and purchasing books online, this project contributes to the evolution of the modern book retail landscape. The subsequent sections will provide a comprehensive insight into the project's development journey and its significance in the context of today's digital age.

### **1.1 Purpose**

Online book buy website. This system will help the users for buying books and also helps the users know the suggestion of their interests being introduced into the market like fiction, adventure, history, mystery, etc.

### **1.2 Scope**

- There are three basic users - Anonymous, Registered Members(Customers) and Administrators.
- The customers, though the process of account creation, will have the option to become a member of this site.
- The system will allow customers to browse, search, select, buy/sell and add books to Wishlist/Cart.

- Admin has the authority to add/delete users, grant permissions to members and user to purchase books.

### **1.3 Literature Survey**

- We are going to take the website named (amazon.com) as our idealistic guideline website. The purpose of these website/application is to allow person to buy books of their own choice on our platform. The motive is that one person A can buy books if he/she wants to buy our books from BookTopia, the admin will be also creating the virtual library as per demand for the books. This web/app will be helping users to buy books.
- We take another idea from BookChums.com it is developed by Milestone Machine. This website gives suggestions to user which books they want to read next. And also gives short description of book for users. They listed book by categories.
- This all are facilities on different sites, so we want to make one unique website can cover all these things:
  1. Buy new books
  2. Make categories for users

### **1.4 Overview**

1. Existing System
  - Manual Registration
2. Drawbacks
  - No webcam support
  - Not all users have access to website

- People who doesn't have a knowledge of computer and internet cannot use the system.

### 3. Proposed System

- Registration for users (Customers)
- Buy books with email intimation
- Notification through mobile message when a book arrives in stock.

### 4. Our Plan

- Registration for members
- Online maintenance of books and sales
- Acknowledgement for registration, sales and arrival of new books through email
- Feedback from users

## 1.5 Chapter List

Provide a list of all the chapters within the report and a brief summary of the content.

**Chapter 2** System Requirement Study

**Chapter 3** Inter Requirement

**Chapter 4** System Design

**Chapter 5** Database Dictionary

**Chapter 6** Implementation, Planning and Details

**Chapter 7** The conclusion of the report is presented.

**Chapter 8** References of sites referred.

## **Chapter 2**

# **System Requirement Study**

- Functional Requirements :**

- 1. Functional Requirement 1:**

- Description: Ask user to enter details in order to become a registered user.
- Input: Name in characters, email and password in alphanumeric values
- Processing: Storing the values entered in database and check if a person with same email is available or not. If not then store in database else an error is generated.
- Output: Confirmation message registered successfully.

- 2. Functional Requirement 2:**

- Description: Initialize username and password for login.
- Input: Username and password in alphanumeric values.
- Processing: Storing the values and checking whether true or not.
- Output: Confirmation message login successful else login failed.

3. Functional Requirement 3:
  - Description: Form validation.
  - Input: Name in characters, email and password in alphanumeric values.
  - Processing: Storing values entered and checking whether they are valid or invalid.
  - Output: Confirmation message valid.
4. Functional Requirement 4:
  - Description: Profile update to update the current details to new one
  - Input: Name in characters, email and password in alphanumeric value, mobile number, address, date of birth.
  - Processing: Storing the values entered by the user in the database.
  - Output: Confirmation message profile updated successfully.
5. Functional Requirement 5:
  - Description: Search for a particular book.
  - Input: Name of the book in characters.
  - Processing: Checking whether the entered book is available or not.
  - Output: Displays book details if available else an error is generated.

6. Functional Requirement 6:

- Description: Sell a book.
- Input: Name of book, author name in characters and price in number format.
- Processing: Store the information of book in database.
- Output: Book added for sale.

7. Functional Requirement 7:

- Description: Buy a book.
- Input: Name of the book, author name.
- Processing: Fetch the data of book if available.
- Output: If a book is available, display message “added to cart” else display book is unavailable.

8. Functional Requirement 8:

- Description: Proceed to checkout
- Input: Enter the delivery address and click on checkout.
- Processing: Stores the delivery address and buyers details to database.
- Output: Redirects to payment gateway.

9. Functional Requirement 9:

- Description: Payment gateway
- Input: Card details including card number, CVV, expiry date
- Processing: Check the information provided to bank server. If successful, money gets debited from user bank account and credited to book seller account, else display error.
- Output: If no error, display message order successful and order id generated else display error message.

10. Functional Requirement 10:

- Description: View all orders.
- Input: Click on my orders
- Processing: Fetch the all past order placed by user from database
- Output: Display the list of all books delivered with delivery date.

11. Functional Requirement 11:

- Description: Rate a book.
- Input: Comments and star rating for book.
- Processing: Stores the information entered by the user to book details.
- Output: Display message “thanks for rating”.

- **Non-Functional Requirements :**

1. **Safety Requirements:**

Highly recommended Quick Heal internet security to been installed in to users PC to prevent the harm that may occurs by unwanted malicious software's, phishing URLs and all the types of viruses attacks during using these website.

2. **Security requirements:** All users should be properly authenticated before allowed entry into the system authentication will be based on an E-mail address and a password. All activities must be logged.

3. **Non-Functional Requirements:**

- Secure access of confidential data(user's details).SSL can be used.
- 24x7 availability.
- Better component design to get better performance at the peak time.
- Flexible service based architecture will be highly desirable for future extensions.

## 2.1 User Characteristics

- Registered Members (customers): Registered members can access all the functionalities provides on website. Registered members have their own profiles.
- Administrator/Developer: Admin has authority to grant/delete registered members as well as view profiles.

The Administrator will be provided with special functionalities like:

- Add a book
- Add or delete a book category
- Add or delete a member
- Make a book available/unavailable
- Manage member orders
- Get all revenue chart

## 2.2 Operating Environment

- The online books buying website will be developed in java platform.
- Java 11 will be used as programming language.

# **Chapter 3**

## **Inter Requirement**

This chapter provides some inter-requirements of the project.

### **3.1 System Interface**

- **Online Payment System:** The system will access the online payment system via its web services API.

### **3.2 User Interface**

- **Front-end Software:** React
- **Back-end Software:** Spring Boot
- **Database Software:** MySQL

### **3.3 Hardware Interface**

- There is no particular hardware device to access this website.
- Any hardware is compatible.

### 3.4 Software Interface

Software used	Description
Operating system	We have chosen the Windows operating system for its best support and user-friendliness.
Database	To save the book details, user details, sales details, and profit details, we have chosen MySQL.
Language	To implement the project, we have chosen Java language for its more interactive support.

Table 3.1: *Software Interface*

### 3.5 Communication Interface

- This website support all type of web browsers.
- The website order system shall send an e-mail confirmation to the customer that books they order.
- This website also confirm payment process by e-mail.

# Chapter 4

## System Design

This chapter examines the system design of the project.

### 4.1 Use-case Diagram

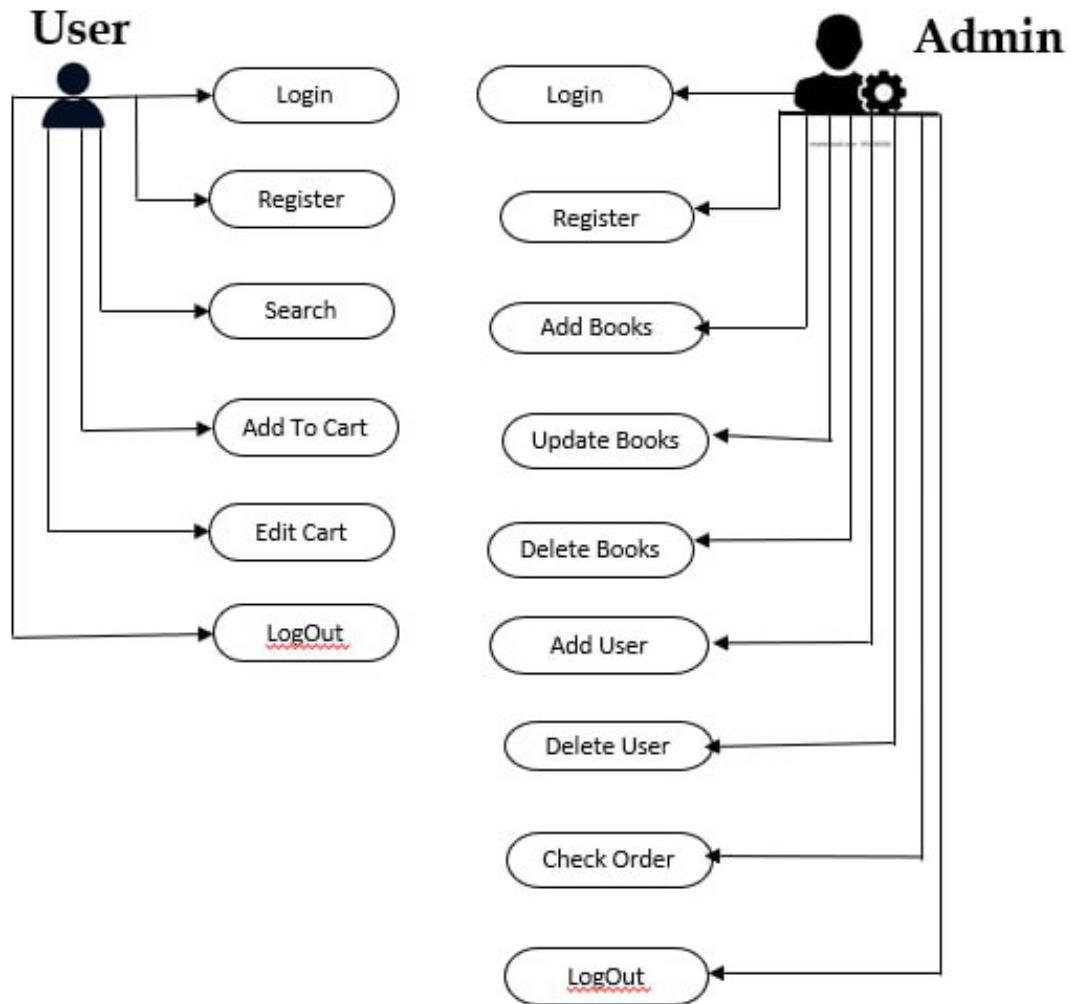


Figure 4.1: Use-Case Diagram

## 4.2 Class Diagram

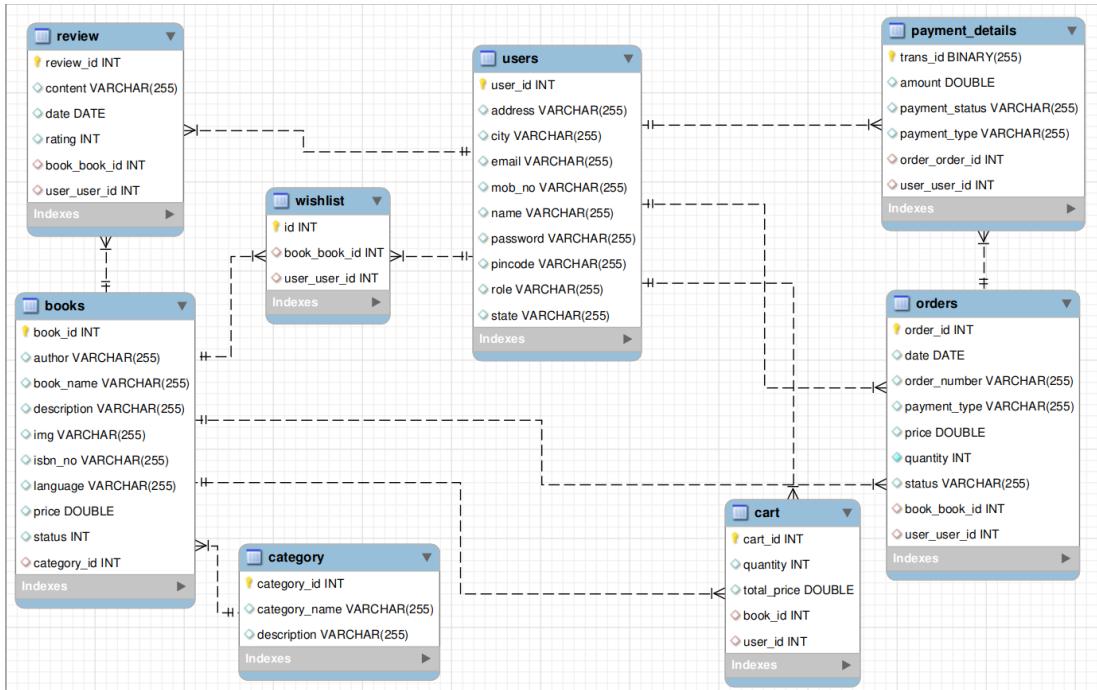


Figure 4.2: Class Diagram

# Chapter 5

## Database Dictionary

This chapter examines various tables used in the project.

### 5.1 Database Dictionary

Sr. No	Field name	Data Type	Description
1	UserId	Int	For unique number of user
2	Address	String	Address of user
3	City	String	City of user
4	Email	String	User email for uniquely identifying user
5	Mobile no.	String	Mobile number of user
6	Name	String	Name of user
7	Password	String	Password of user
8	Pincode	String	Pincode of user
7	Role	String	Role of user
8	State	String	State of user

Table 5.1: *User Details*

Sr. No	Field name	Data Type	Description
1	BookId	Int	For unique identity of book
2	Author	String	Author of book
3	Description	String	Description of book
4	Image	String	Image of book
5	ISBN	String	ISBN of book
6	Language	String	Language of book
7	Price	Double	Price of book
8	Status	Int	Availability status of book
9	CategoryId	Int	For identifying category of book

Table 5.2: *Book Details*

Sr. No	Field name	Data Type	Description
1	CartId	Int	For unique identity of cart
2	Quantity	Int	Quantity of book in cart
3	TotalPrice	Double	Total price of book in cart
4	BookId	Int	Foreign key of book
5	UserId	Int	Foreign key of user

Table 5.3: *Cart*

Sr. No	Field name	Data Type	Description
1	OrderId	Int	For unique identity of order
2	Date	Date	For unique identity of cart
3	OrderNumber	String	Order number of order
4	PaymentType	String	Payment type of order
5	Price	Double	Price of order
6	Quantity	Int	Quantity of book in order
7	Status	String	Status of order
8	BookId	Int	Foreign key of book
9	UserId	Int	Foreign key of user

Table 5.4: *Order*

Sr. No	Field name	Data Type	Description
1	WishlistId	Int	For unique identity of wishlist
2	BookId	Int	Foreign key of book
3	UserId	Int	Foreign key of user

Table 5.5: *Wishlist*

Sr. No	Field name	Data Type	Description
1	ReviewId	Int	For unique identity of review
2	Content	String	Review content by user
3	Date	Date	Date on which review was put
4	Rating	Int	Rating of book
5	BookId	Int	Foreign key of book
6	UserId	Int	Foreign key of user

Table 5.6: *Review*

Sr. No	Field name	Data Type	Description
1	TransactionId	Int	For unique identity of transaction
2	Amount	Double	Amount paid during transaction
3	PaymentStatus	String	Payment status of transaction
4	PaymentType	String	Payment type of transaction
5	OrderId	Int	Foreign key of order
6	UserId	Int	Foreign key of user

Table 5.7: *Payment Details*

# Chapter 6

## Evaluation & Testing

This chapter evaluates the overall project and provides results of tests carried out.

### 6.1 User and Admin Flow

1. User can visit the website's Home page and click on the Signup link on top right corner.

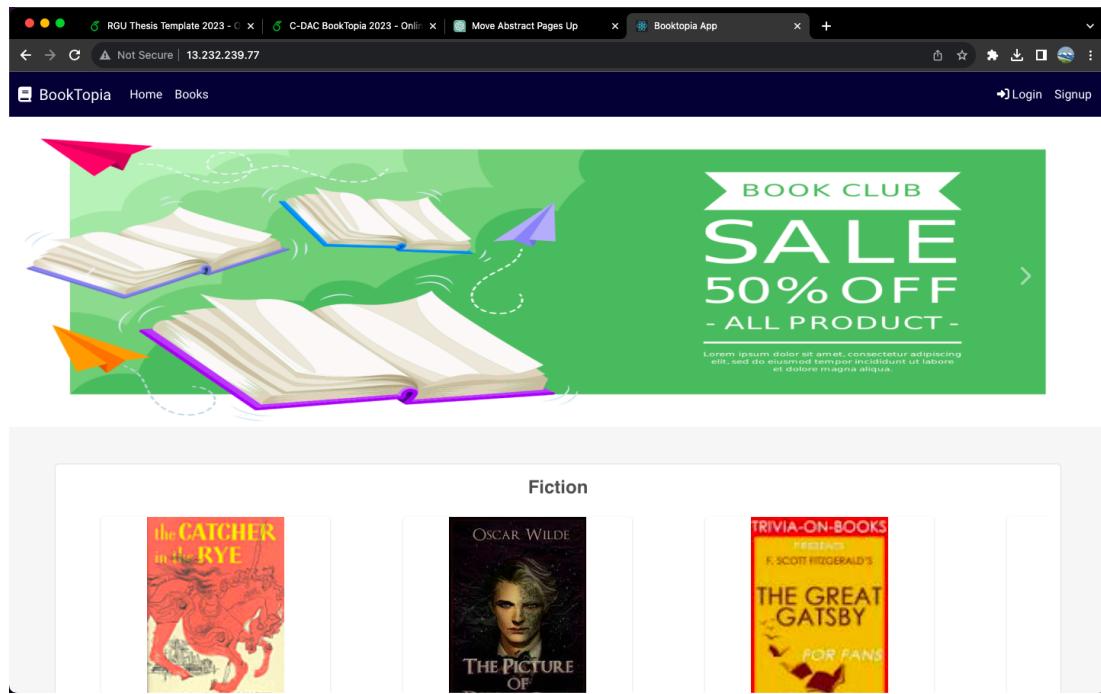


Figure 6.1: Home Page

2. Then user can fill all the necessary fields on Registration page to register.

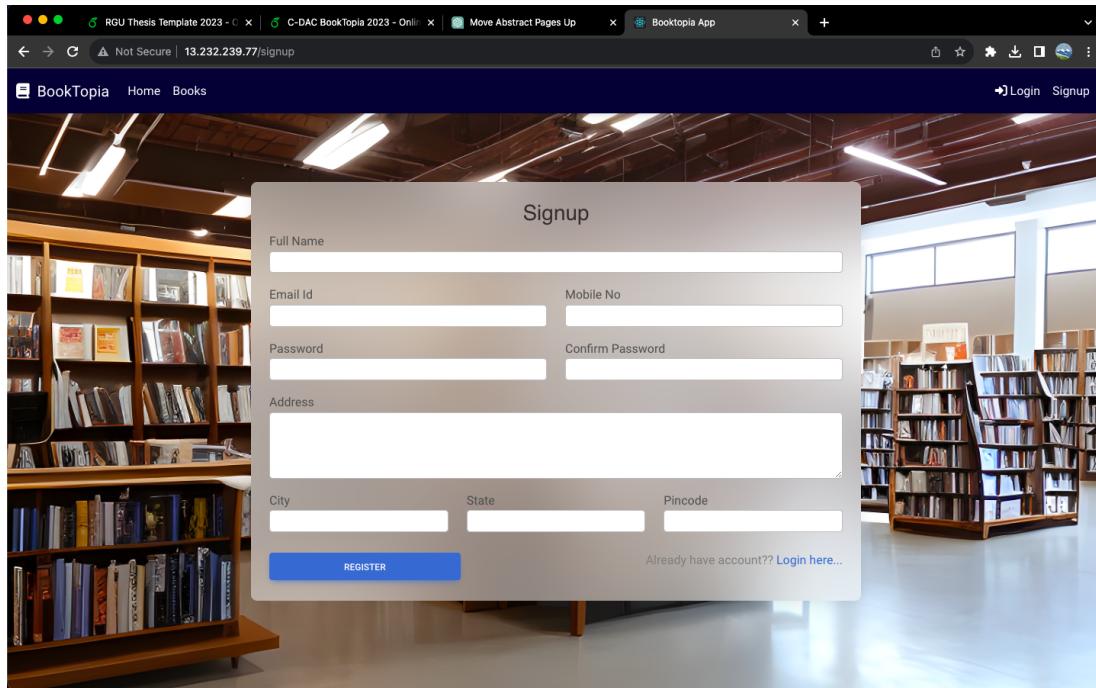


Figure 6.2: Registration Page

3. After filling the registration form the user can register by clicking on Register button. Then user needs to login by clicking on the Login link at right bottom of Registration page.

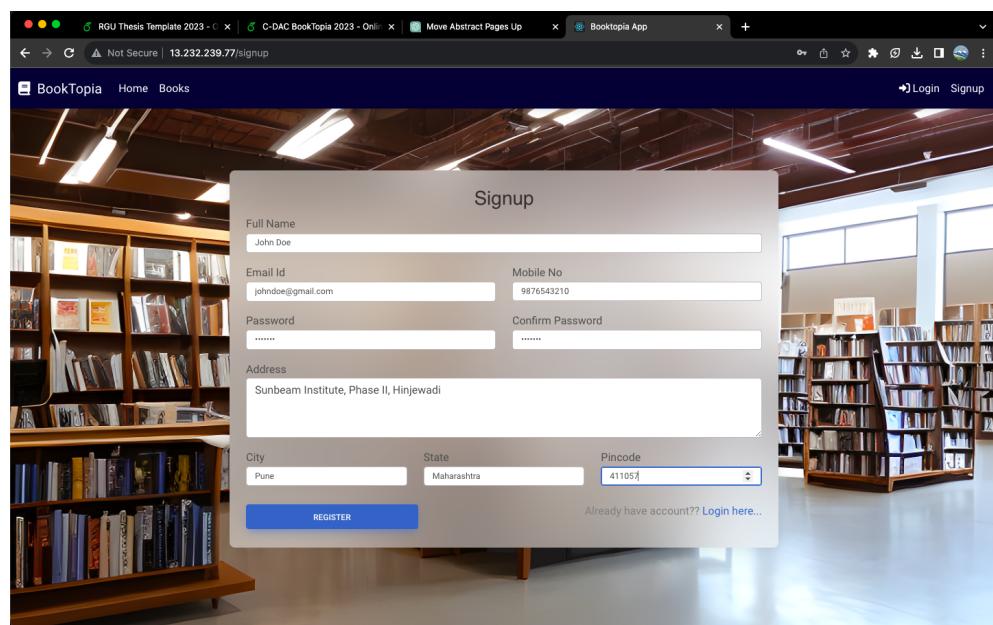


Figure 6.3: Sample Form

4. Then user can fill all the necessary fields on Login page to login on website as customer.

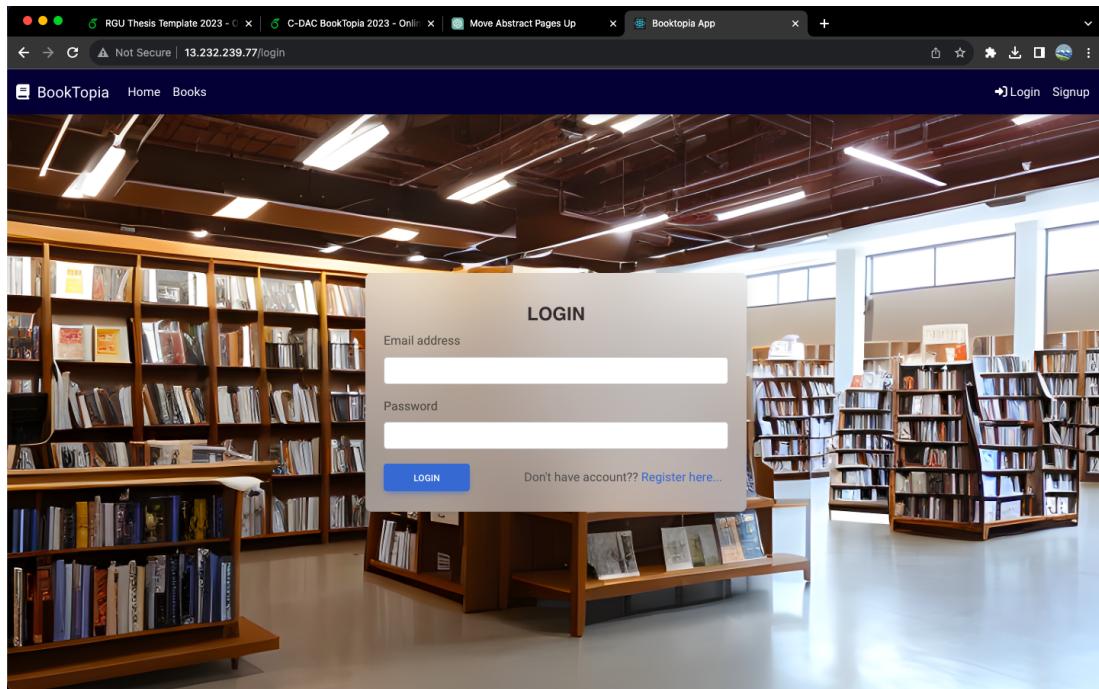


Figure 6.4: Login Page

5. After filling the login form the user can login by clicking on Login button.

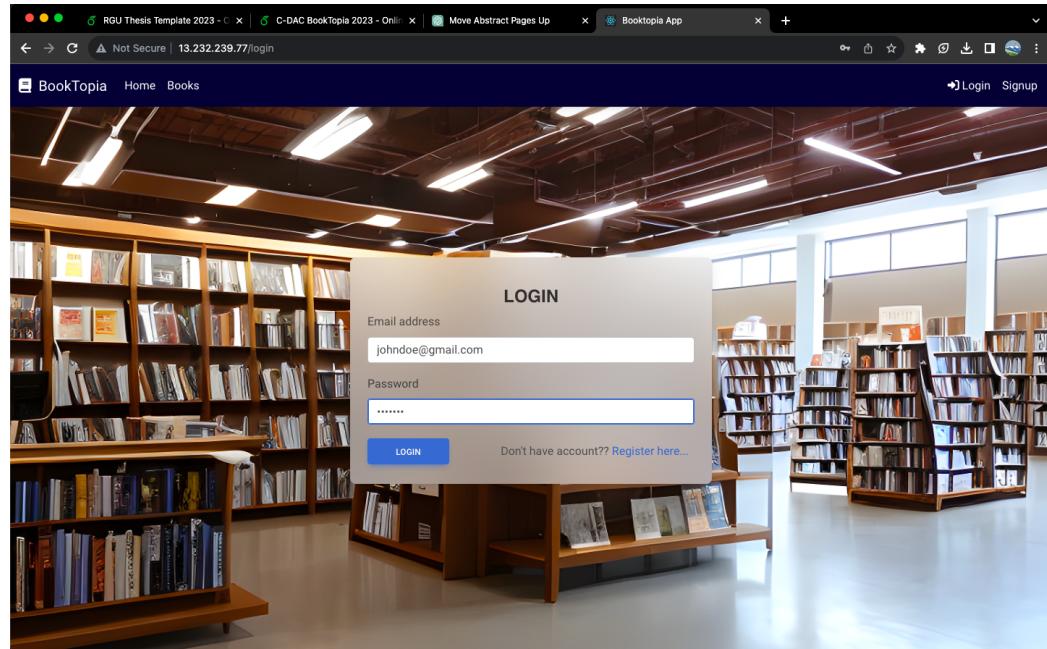


Figure 6.5: Sample Page

- User will be taken back on Home Page but this time user will be logged in on the website.

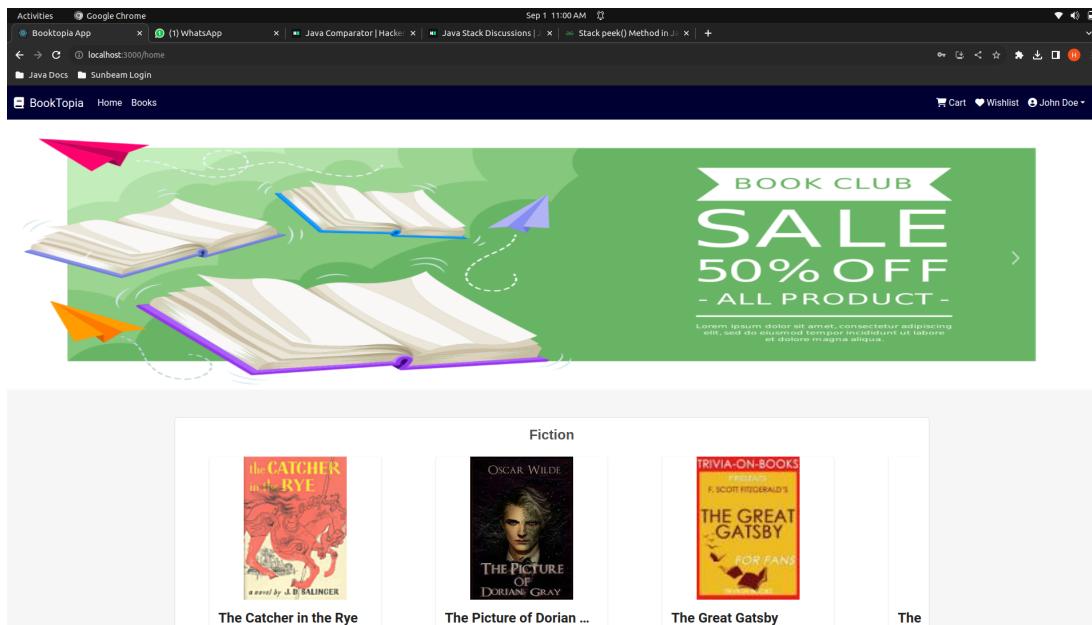


Figure 6.6: Home Page after Login

- Now the user can scroll through various categories of books and explore them.

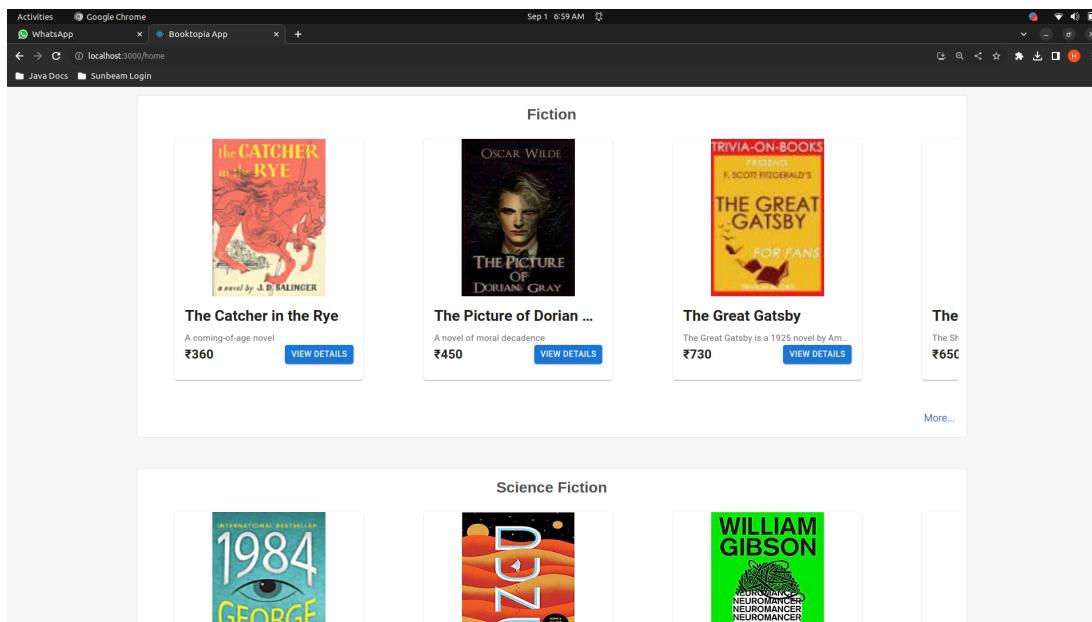


Figure 6.7: Categories

8. User can click on "Books" tab on navbar to search any book.

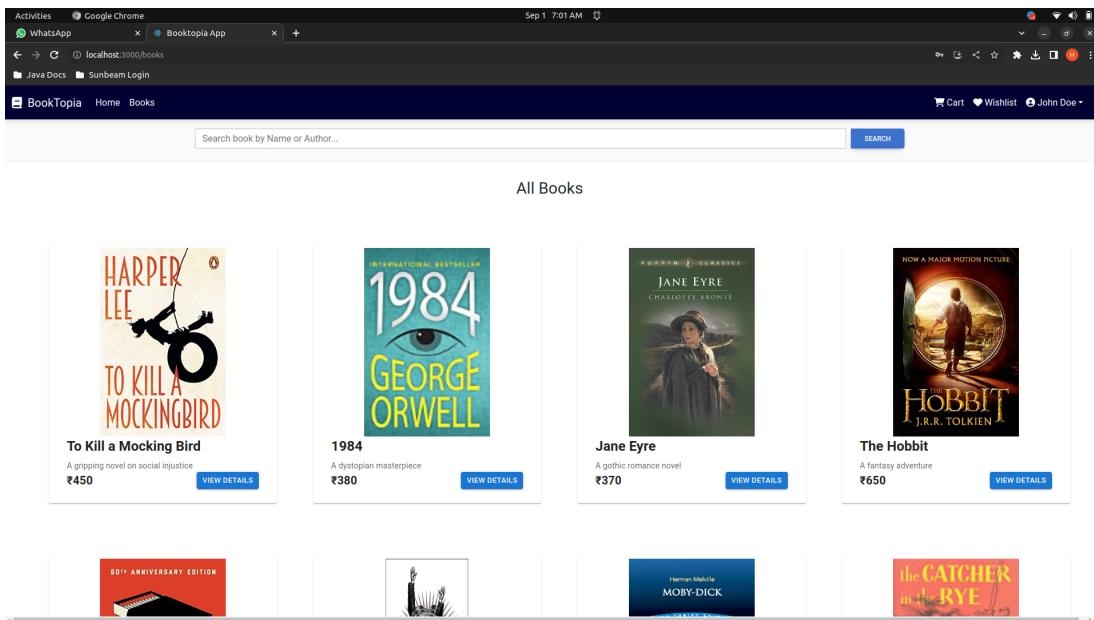


Figure 6.8: Books Page

9. User can search a book and if it is in the catalogue, it will appear on screen.

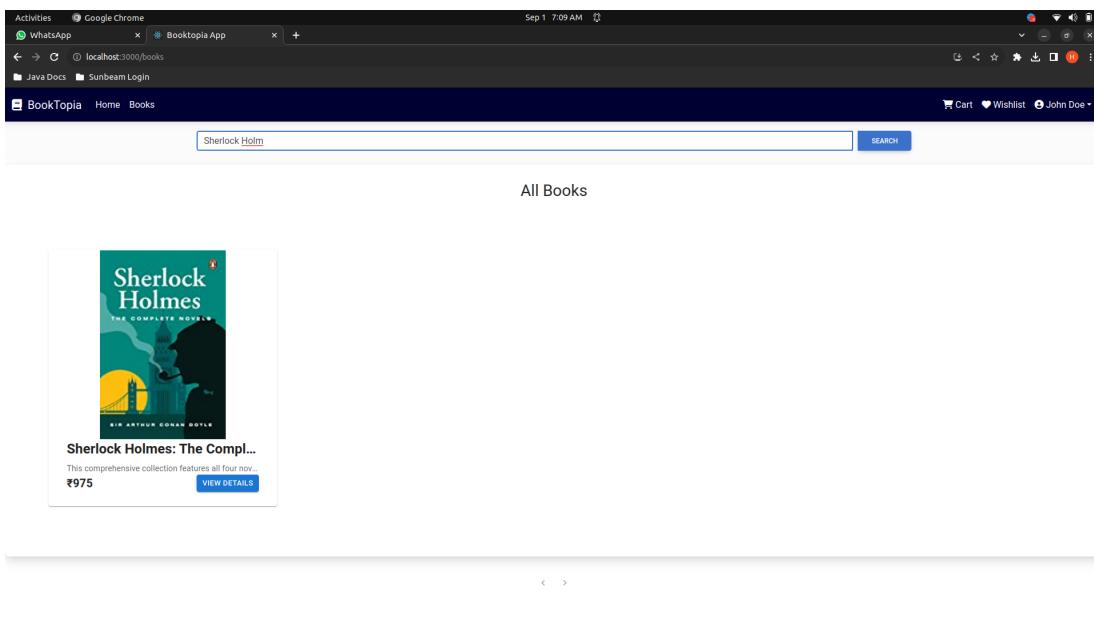


Figure 6.9: Searching a book

10. User can click on "View Details" to display that book's details.  
 User can add that book to Wishlist by clicking on "Add to Wishlist".

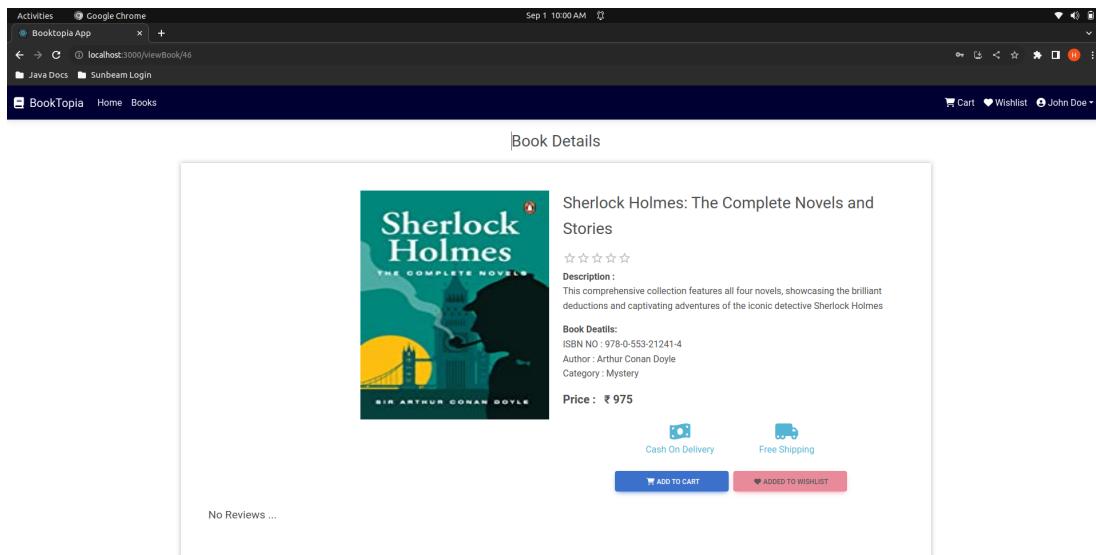


Figure 6.10: Details of a book

11. User can click on "Wishlist" at navbar on top right to view Wishlist. The books available will show an option to add them to Cart.

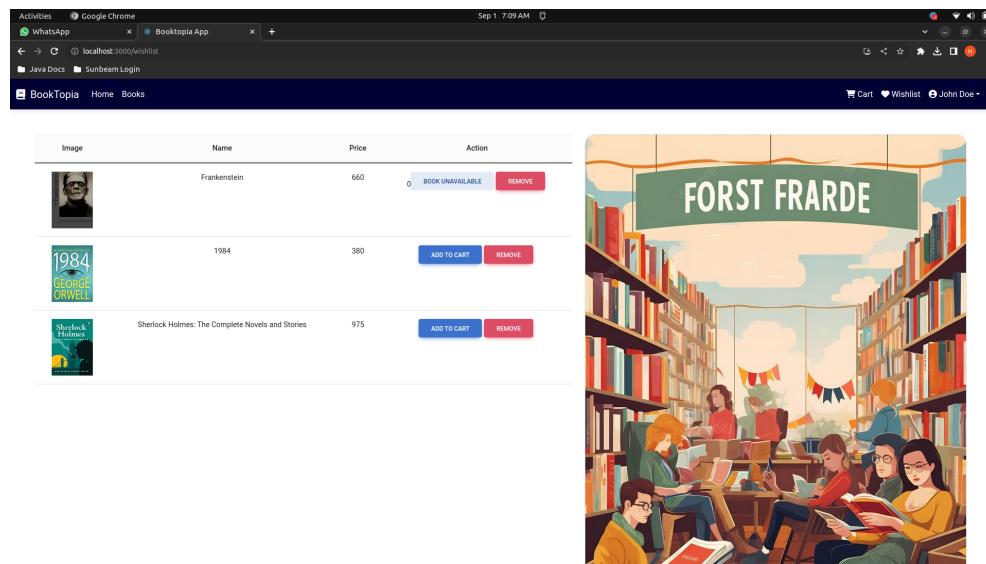
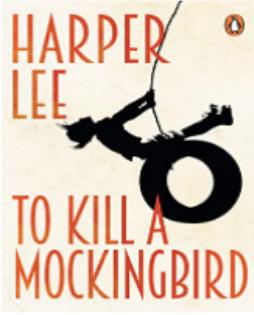


Figure 6.11: Wishlist

12. User can view a book and add it to cart by clicking on "Add to Cart".

Book Details



**To Kill a Mocking Bird**

★★★★☆

Description : A gripping novel on social injustice

Book Details:

ISBN NO : 978-7052659

Author : Harper Lee

Category : Romance

Price : ₹ 450

 Cash On Delivery     Free Shipping

[ADD TO CART](#) [ADD TO WISHLIST](#)

Alice Johnson 2023-08-01

★★★★★

Excellent read, thoroughly enjoyed it!

Bob Smith 2023-07-29

★★★☆☆

This book was a bit disappointing.

Claire Brown 2023-08-05

★★★★☆

Couldn't put it down, a real page-turner.

David Wilson 2023-08-10

★★★★★

Beautifully written, highly recommend.

Emily Davis 2023-08-03

★★★☆☆

Not my genre, but I gave it a try.

Fiona Anderson 2023-07-31

★★★☆☆

Intriguing plot, but the ending was abrupt.

George Lee 2023-08-08

★★★★☆

A solid book overall, kept me engaged.

Ram Gaytonde 2023-08-25

★☆☆☆☆

Great book

Figure 6.12: Details of a book

13. User can then click on "Cart" at navbar on top right to view Cart. User can then increase the quantity of books, change the address if needed, select a payment method and order books by checking the Total Price on left bottom.

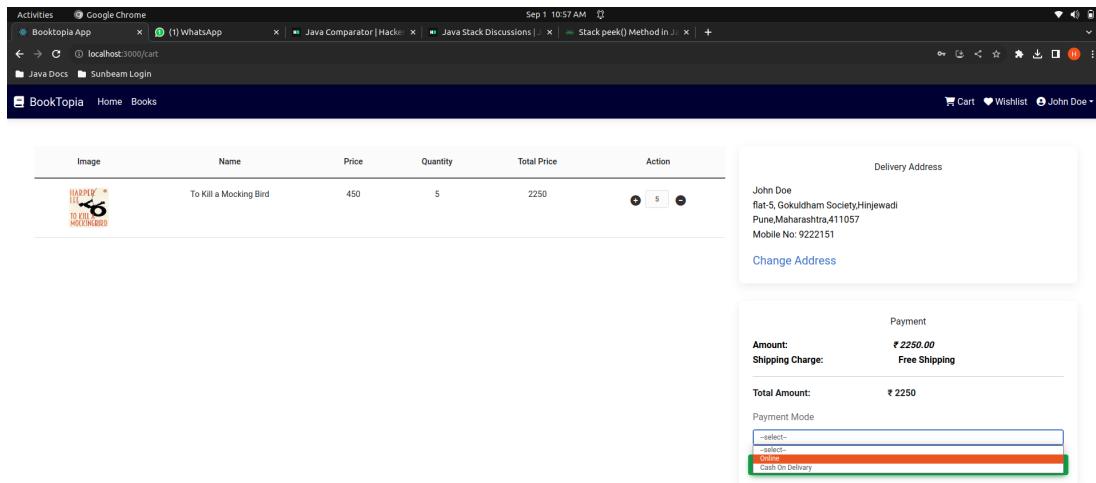


Figure 6.13: Ordering books

14. If user selects "Online" payment method then he will be directed to UPI payment screen with QR code .

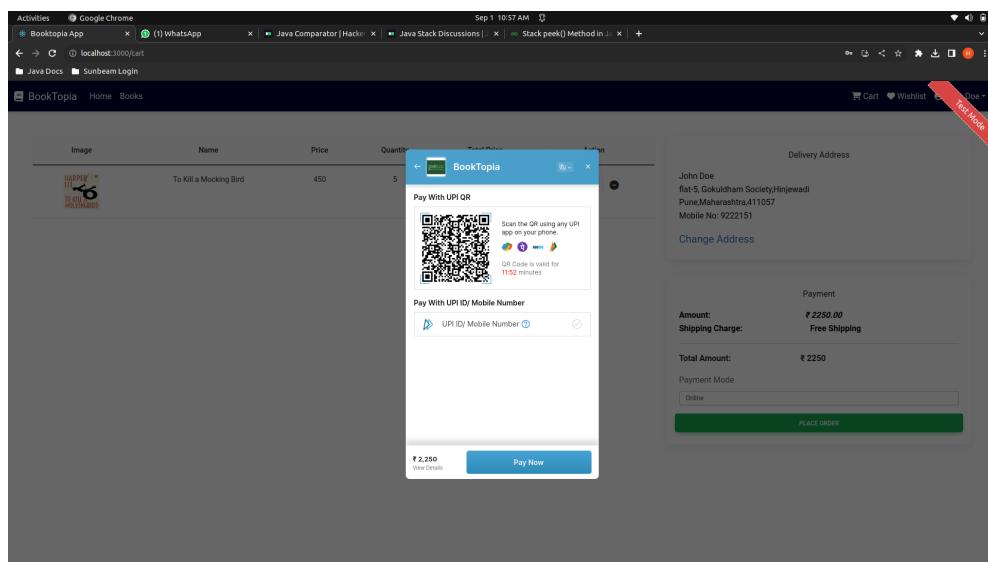


Figure 6.14: Payment Gateway

15. After successful payment a Payment Successful Page will appear.

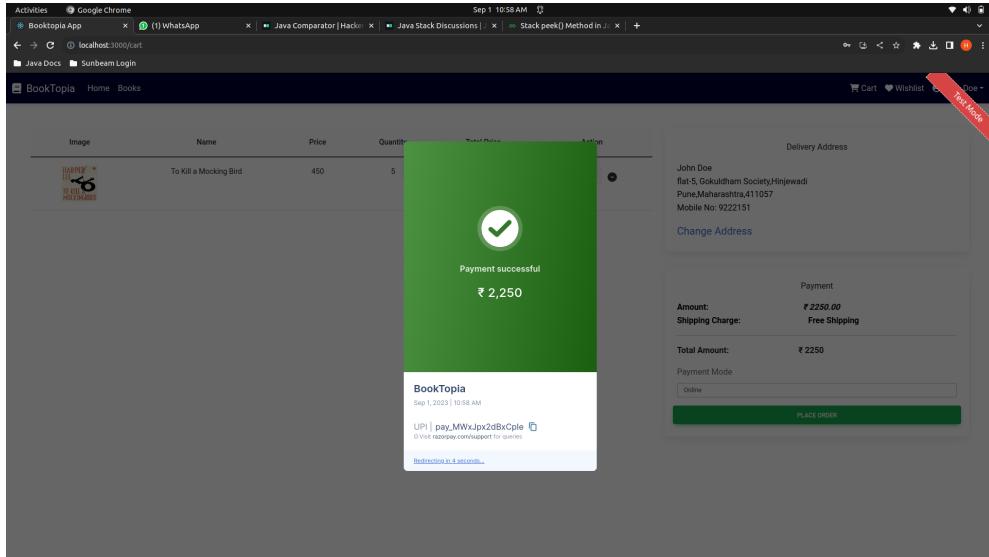


Figure 6.15: Payment Successful Page

16. On successful payment user will be directed to Order Successful Page. And if user has selected "Cash on delivery" method then too user will be directed to Order Successful Page.

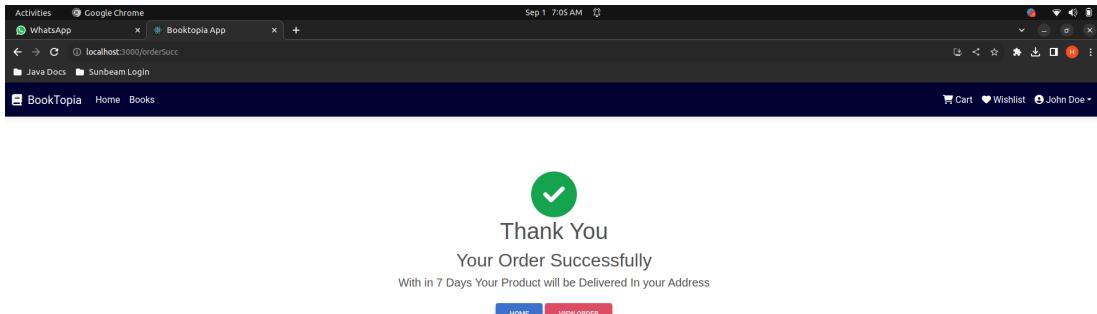
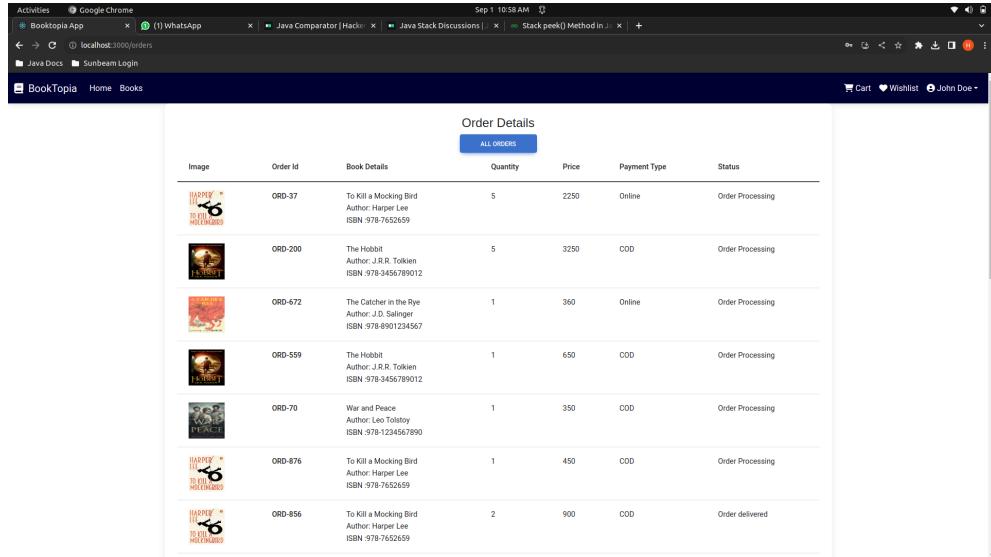


Figure 6.16: Order Successful page

17. User can check his past orders by clicking on his name tab dropdown at navbar on top right and selecting "Orders".

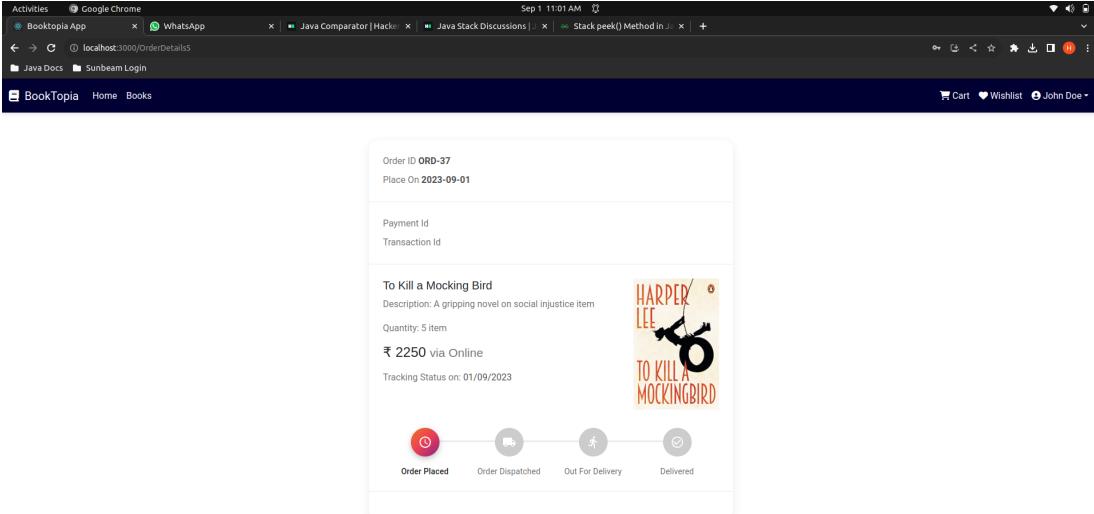


The screenshot shows a table titled "Order Details" with a "ALL ORDERS" button. The table has columns: Image, Order Id, Book Details, Quantity, Price, Payment Type, and Status. There are seven rows of data:

Image	Order Id	Book Details	Quantity	Price	Payment Type	Status
	ORD-37	To Kill a Mocking Bird Author: Harper Lee ISBN: 978-7652659	5	2250	Online	Order Processing
	ORD-200	The Hobbit Author: J.R.R. Tolkien ISBN: 978-3456789012	5	3250	COD	Order Processing
	ORD-672	The Catcher in the Rye Author: J.D. Salinger ISBN: 978-9901234567	1	360	Online	Order Processing
	ORD-559	The Hobbit Author: J.R.R. Tolkien ISBN: 978-3456789012	1	650	COD	Order Processing
	ORD-70	War and Peace Author: Leo Tolstoy ISBN: 978-1234567890	1	350	COD	Order Processing
	ORD-876	To Kill a Mocking Bird Author: Harper Lee ISBN: 978-7652659	1	450	COD	Order Processing
	ORD-856	To Kill a Mocking Bird Author: Harper Lee ISBN: 978-7652659	2	900	COD	Order delivered

Figure 6.17: Orders Page

18. Order Status page



The screenshot shows a detailed view of an order. At the top, it says "Order ID ORD-37" and "Place On 2023-09-01". Below that is a section for "Payment Id" and "Transaction Id". The main product information is shown: "To Kill a Mocking Bird", "Description: A gripping novel on social injustice item", "Quantity: 5 item", "₹ 2250 via Online", and "Tracking Status on: 01/09/2023". To the right is a thumbnail of the book cover. At the bottom, there is a timeline with four status icons: "Order Placed", "Order Dispatched", "Out For Delivery", and "Delivered".

Figure 6.18: Order Status

19. Admin will be taken back on Home Page logging in on the website.

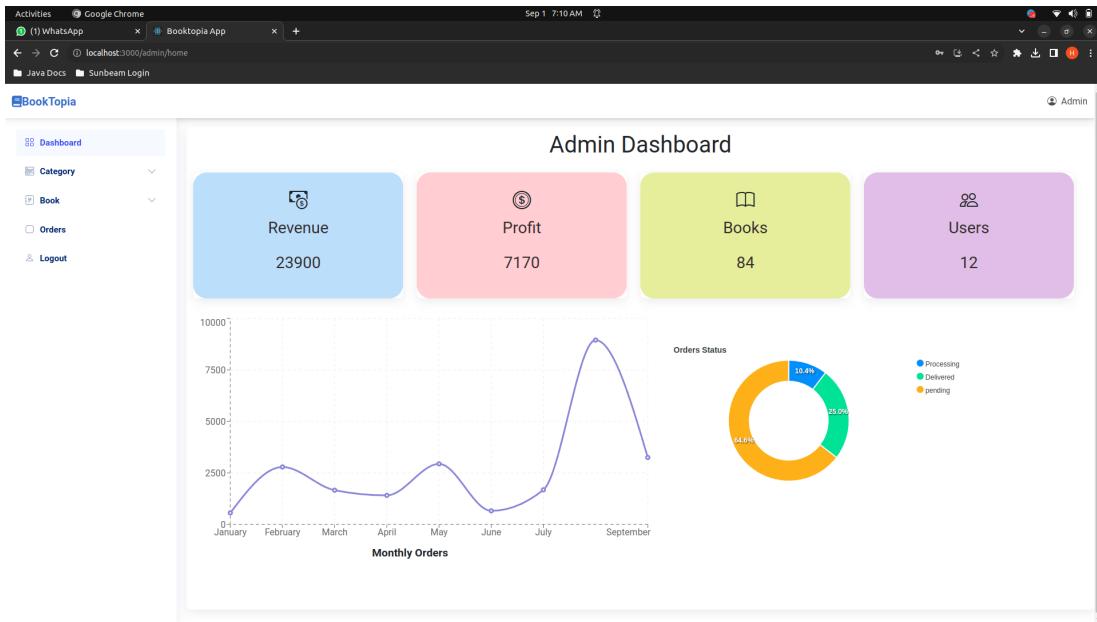


Figure 6.19: Admin Home Page

20. Admin can add books by clicking on "Book" dropdown and selecting "Add" on left side of screen.

The screenshot shows the 'Add Book' form on the Admin interface. The sidebar menu shows 'Book' selected with options 'Add' and 'View'. The main form has fields for Book Name, Author, ISBN No, Category (a dropdown menu showing 'select'), Price, Image (file upload), Language, and Description. A 'SUBMIT' button is at the bottom.

Figure 6.20: Adding a book

21. Admin can view a book and make it's status Available/Unavailable depending on it's availability or edit book details.

Book Details							
SL No	Image	Name	Author	Category	ISBN	Price	Action
1		To Kill a Mocking Bird	Harper Lee	Romance	978-7652659	450	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>
2		1984	George Orwell	Science Fiction	978-9876543210	380	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>
3		Jane Eyre	Charlotte Brontë	Romance	978-6789012345	370	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>
4		The Hobbit	J.R.R. Tolkien	Fantasy	978-3456789012	650	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>
5		Fahrenheit 451	Ray Bradbury	Political	978-5678901234	340	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>
6		Brave New World	Aldous Huxley	Political	978-6789012345	240	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>
7		Moby-Dick	Herman Melville	Adventure	978-7890123456	150	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>
8		The Catcher in the Rye	J.D. Salinger	Fiction	978-8901234567	360	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>
9		Lord of the Rings: The Fellowship of the Ring	J.R.R. Tolkien	Fantasy	978-1234567890	900	<button>EDIT</button> <button>UNAVAILABLE</button> <button>AVAILABLE</button>

Figure 6.21: Editing Book Details

22. Admin can view all the orders of all users.

Order Details(AllOrders)					
Image	Order Id	Order Date	Book Details	Status	Full Details
	ORD-37	2023-09-01	To Kill a Mocking Bird	Order Processing	<button>VIEW</button>
	ORD-200	2023-09-01	The Hobbit	Order Processing	<button>VIEW</button>
	ORD-954	2023-08-25	The Catcher in the Rye	Order Processing	<button>VIEW</button>
	ORD-672	2023-08-25	The Catcher in the Rye	Order Processing	<button>VIEW</button>
	ORD-559	2023-08-25	The Hobbit	Order Processing	<button>VIEW</button>
	ORD-70	2023-08-25	War and Peace	Order Processing	<button>VIEW</button>

Figure 6.22: All Orders

23. Admin can change status of a order by clicking on "View" in front of each order.

The screenshot shows the BookTopia Admin interface for managing orders. On the left, there's a sidebar with 'Dashboard', 'Category', 'Book', and 'Orders' sections. The 'Orders' section is selected. In the main area, a modal window titled 'Order Details' is open for an order. The modal displays the book cover of 'To Kill a Mockingbird' by Harper Lee. Below the book image, the 'Order Details' section shows the following information:

	Value
Order Id	ORD-37
Order Date	2023-09-01
Quantity	5
Status	Order Processing

Below this, the 'Payment Details' and 'User Details' sections are partially visible. At the bottom of the modal, under 'Book Details', it says 'Book Name : To Kill a Mocking Bird'. To the right of the modal, there are two tabs: 'DELIVERY' and 'DELIVERED ORDERS'. Under 'DELIVERY', there are five rows, each representing an order with a status of 'Order Processing' and a 'VIEW' button. The entire interface is labeled 'Admin' at the top right.

Figure 6.23: Changing status of order

24. If user tries to access any admin page then a 401 Error page will be shown.

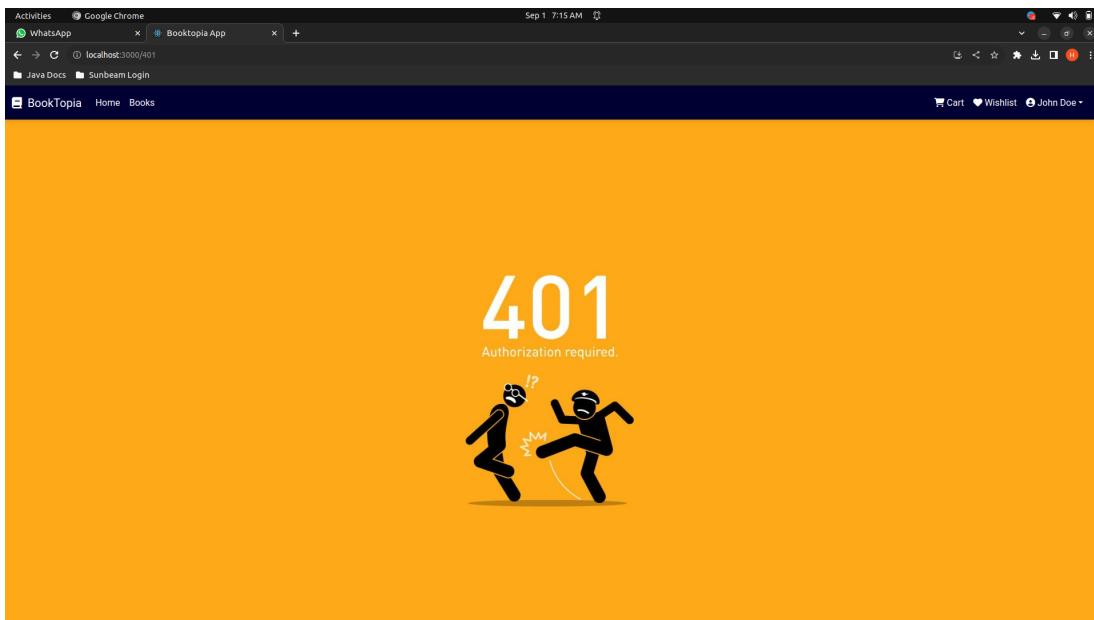


Figure 6.24: 401 Error Page

25. If there is any problem on any page and it is unreachable then a 404 Error Page will shown to user.

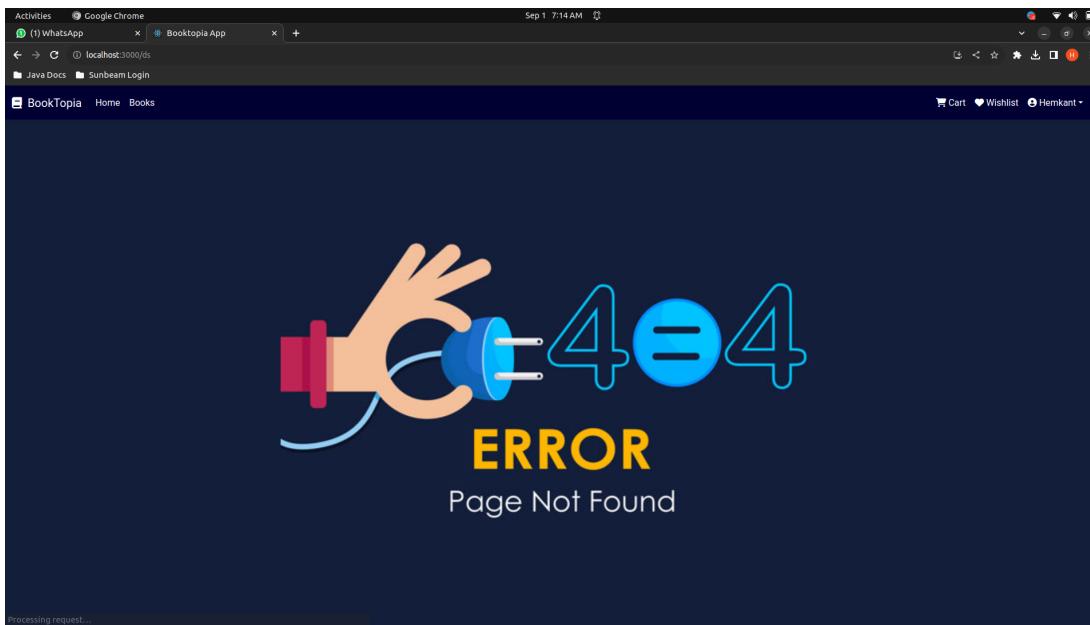


Figure 6.25: 404 Error Page

## 6.2 Testing

1. Logging in with wrong credentials or no credentials.

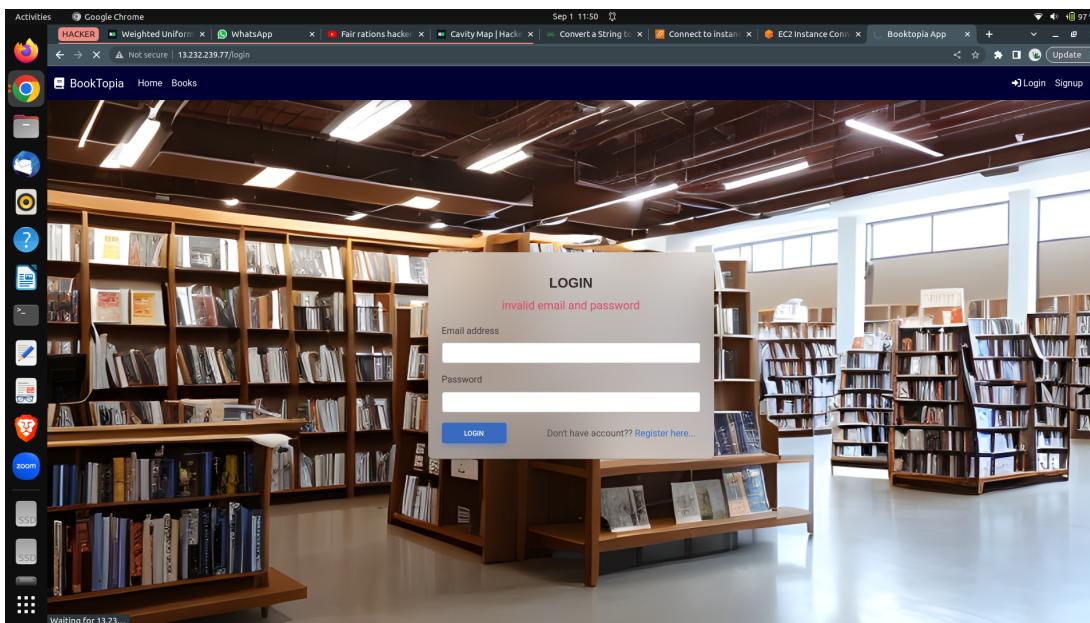


Figure 6.26: Login Page Validations

## 2. Registering without proper details or with no details.

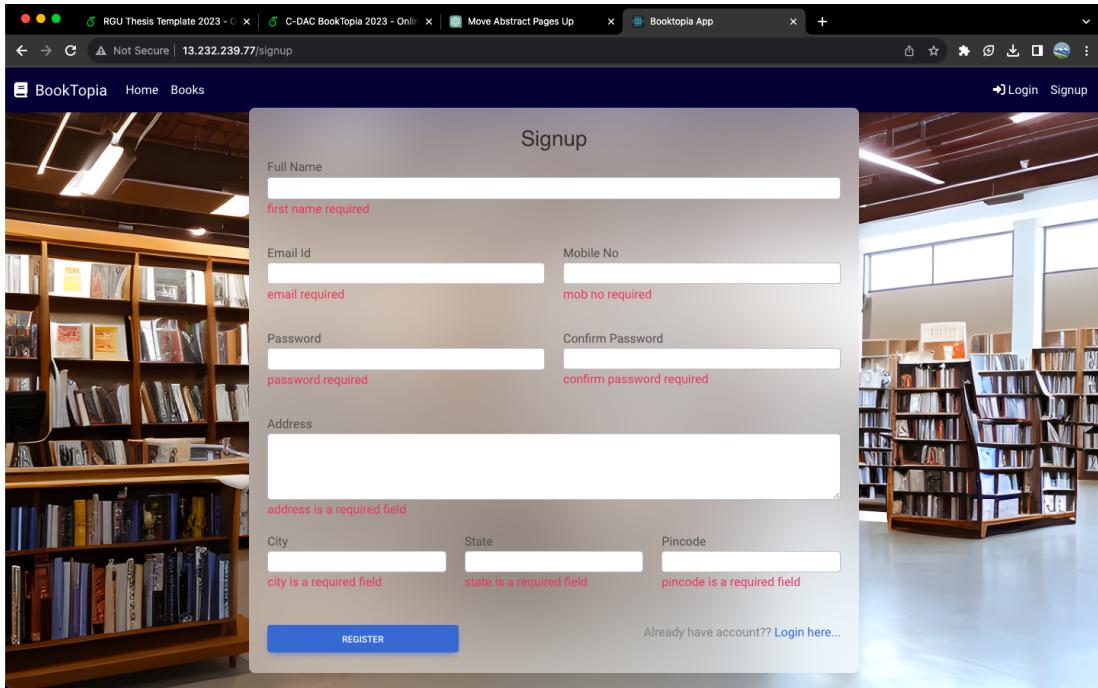


Figure 6.27: Registration Page Validations

# **Chapter 7**

## **Conclusion**

This chapter summarises the main outcomes and conclusions resulting from this body of work.

### **7.1 Conclusions**

In conclusion, the development and implementation of the online bookshop system have yielded a modern and efficient platform for book enthusiasts. This system not only provides a user-friendly interface but also streamlines book management, customer interactions, and sales tracking. With the integration of key features like secure payment processing and user authentication, it ensures a safe and convenient shopping experience. As the digital era continues to evolve, the online bookshop system stands ready to adapt and enhance its services, meeting the ever-changing demands of the online book market.

### **7.2 Future Work**

- In future there can be made an effort to send email notification to user regarding payments, orders and about the books that were out of stock but are back into stock now.
- There can be a rental system like library that can be implemented.
- There can be made a way for users to sell their books as sellers.

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# Chapter 8

## References

1. amazon.in  
<https://www.amazon.in/>
2. bookchor.com  
<https://www.bookchor.com/>
3. flipkart.com  
<https://www.flipkart.com/>

## **Appendix A**

# **Project Log**

The following is a summary of the work carried during the development of this body of work. It covers tasks that were completed, deadlines that were met, websites that were referred and reviews of discussions/meetings held with the project supervisor and other third person.

**Project Beginning: Friday 12/04/2023**

**Project End: Friday 01/09/2023**

Date	Work Done	SLC Phase	Additional Remarks
April 12, 2023	Project Allotment and User Requirements Gathering	Feasibility Study	
May 1, 2023	Initial SRS Document Validation And Team Structure Decided	Requirement Analysis (Elicitation)	The initial SRS was presented to the client to understand his requirements better
May 10, 2023	Designing the use-cases, Class Diagram, Collaboration Diagram, E-R Diagram and User Interfaces	Requirement Analysis and Design Phase	Database Design completed
July 5, 2023	Business Logic Component design Started	Design Phase	
July 25, 2023	Coding Phase Started	Coding Phase	Folder structure, coding conventions were finalized.
AUG 5, 2023	Implementation of Back end for Web Application Started	Coding Phase	Spring Boot API development started.
AUG 5, 2023	Implementation of Back end for Web Application completed	Coding Phase	Spring Boot API development completed.
AUG 12, 2023	Evaluation done for Back-end API	Evaluation Phase	
AUG 15, 2023	Customer login, signup, homepage and search products page were created	Coding Phase and Unit Testing	
AUG 17, 2023	Admin pages with API integration was completed	Coding Phase and Unit Testing	Module Integration was done
AUG 19, 2023	Technician pages with API integration was completed	Testing Phase (Module Testing)	
AUG 21, 2023	Cart page implemented with the help of redux, checkout page was created	Testing Phase (Acceptance Testing)	The Project of Other Team was Taken up by the Team for Checking
AUG 23, 2023	The Errors Found were removed	Debugging	The Project was complete for submission
SEP 1, 2023	Final Submission of Project		

Table A.1: Project Log