



BSc. (Hons) in Software Engineering

Faculty of Computing

User Interface Documentation

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1 Introduction

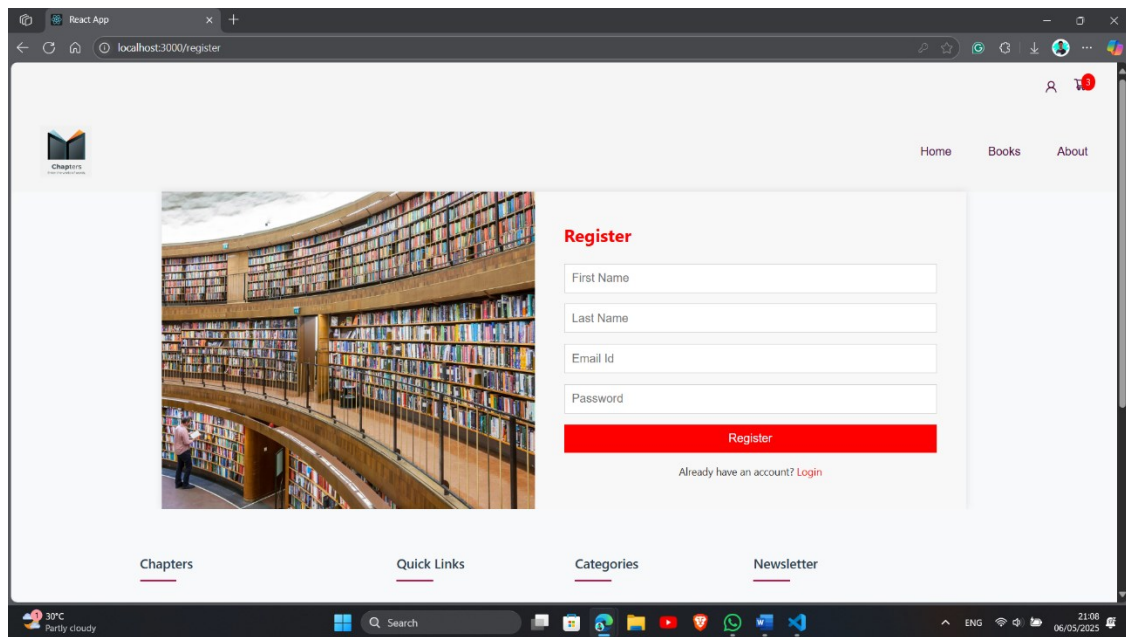
This documentation describes the design and development of the Online Bookshop web application. It is an e-commerce platform that enables users to browse, search, and purchase books through a responsive digital platform. The application consist of frontend and backend. The front end is built using a React.js library. The backend is developed using a Node.js server with Express.js to handle server-side operations and API routing.

The system uses a MongoDB database to store user information, and cart details. It is a real-time database with flexible and scalable storage. This bookstore application uses Google Books API to get book data, allowing real-time fetching of book details such as titles, authors, descriptions, and cover images.

This application has features such as user registration and login, categorized book and sorting, search functionality, cart management, and a secure checkout process. The backend uses powerful backend logic and structure for efficient data handling, and external API integration. This Online Bookshop aims to provide scalable user experience.

This documentation details the system architecture, technology stack, API integration, data models, and user interface. It provides screenshots and code snippets for reference and make it easy to understand the application.

2 User Authentication



The screenshot shows a web browser window with the address bar displaying "localhost:3000/register". The page features a header with a logo and navigation links for "Home", "Books", and "About". A large image of a library interior is on the left. The main content area is titled "Register" and contains a form with fields for "First Name", "Last Name", "Email Id", and "Password". A red "Register" button is below the form, followed by a link "Already have an account? Login". The footer includes sections for "Chapters", "Quick Links", "Categories", and "Newsletter". The Windows taskbar at the bottom shows the date as 06/05/2023 and the time as 21:08.

React App

localhost:3000/register

Home Books About

Register

First Name

Last Name

Email Id

Password

Register

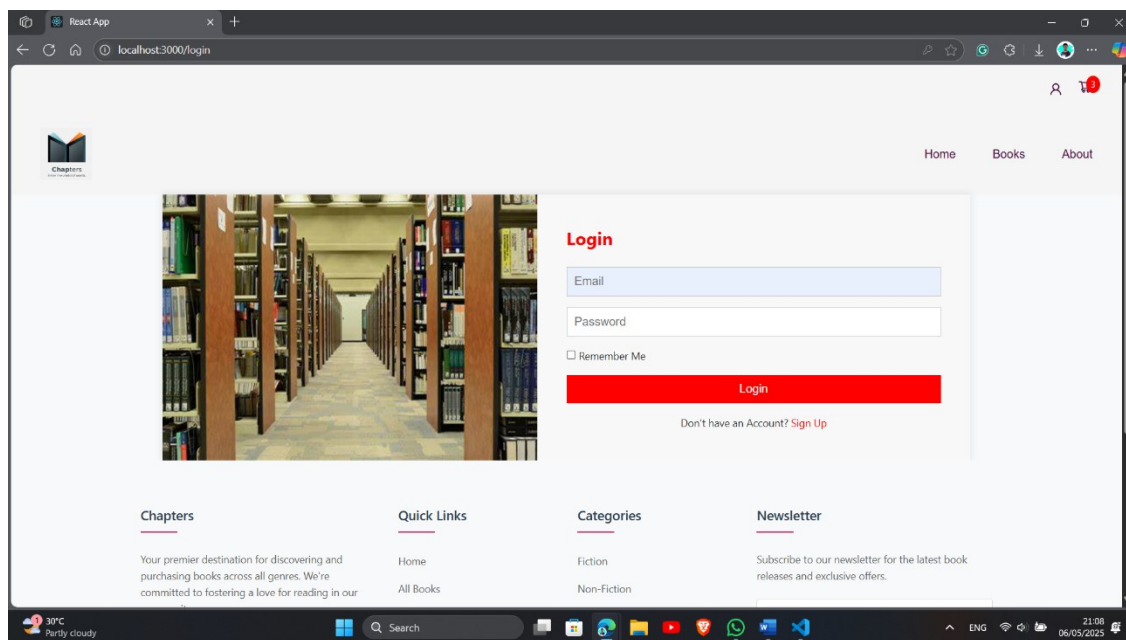
Already have an account? [Login](#)

Chapters Quick Links Categories Newsletter

30°C Partly cloudy

Search

ENG 21:08 06/05/2023



The screenshot shows a web browser window with the address bar displaying "localhost:3000/login". The page features a header with a logo and navigation links for "Home", "Books", and "About". A large image of a library interior is on the left. The main content area is titled "Login" and contains a form with fields for "Email" and "Password". A "Remember Me" checkbox is below the password field. A red "Login" button is below the form, followed by a link "Don't have an Account? Sign Up". The footer includes sections for "Chapters", "Quick Links", "Categories", and "Newsletter". The Windows taskbar at the bottom shows the date as 06/05/2023 and the time as 21:08.

React App

localhost:3000/login

Home Books About

Login

Email

Password

☐ Remember Me

Login

Don't have an Account? [Sign Up](#)

Chapters Quick Links Categories Newsletter

Your premier destination for discovering and purchasing books across all genres. We're committed to fostering a love for reading in our

Home All Books

Fiction Non-Fiction

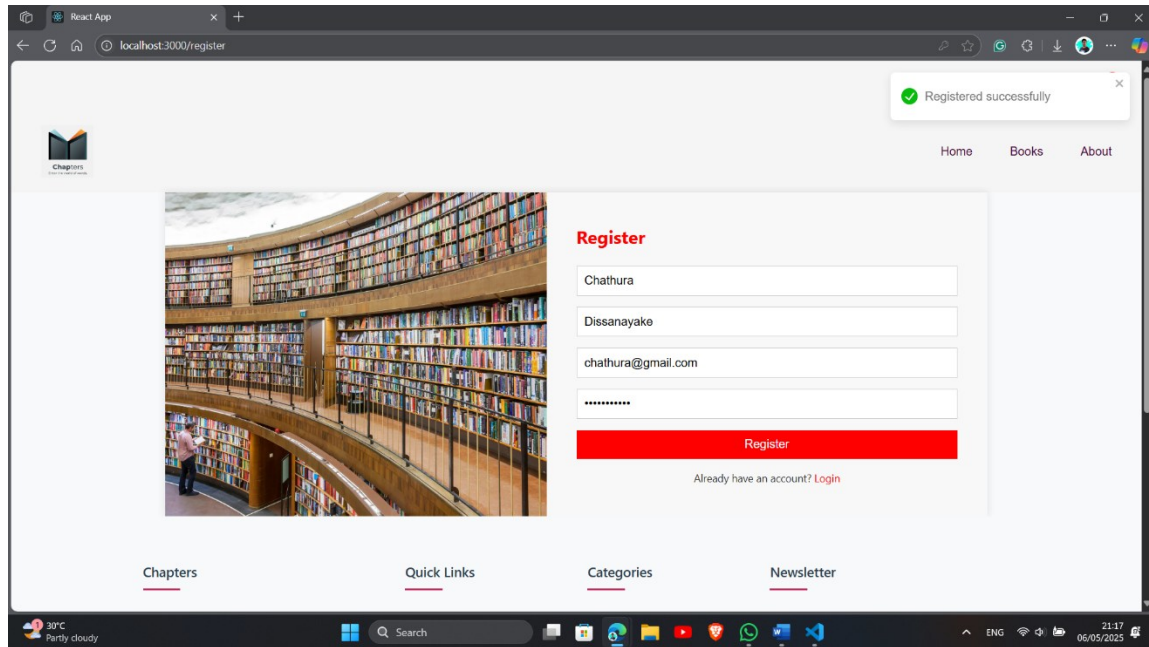
Subscribe to our newsletter for the latest book releases and exclusive offers.

30°C Partly cloudy

Search

ENG 21:08 06/05/2023

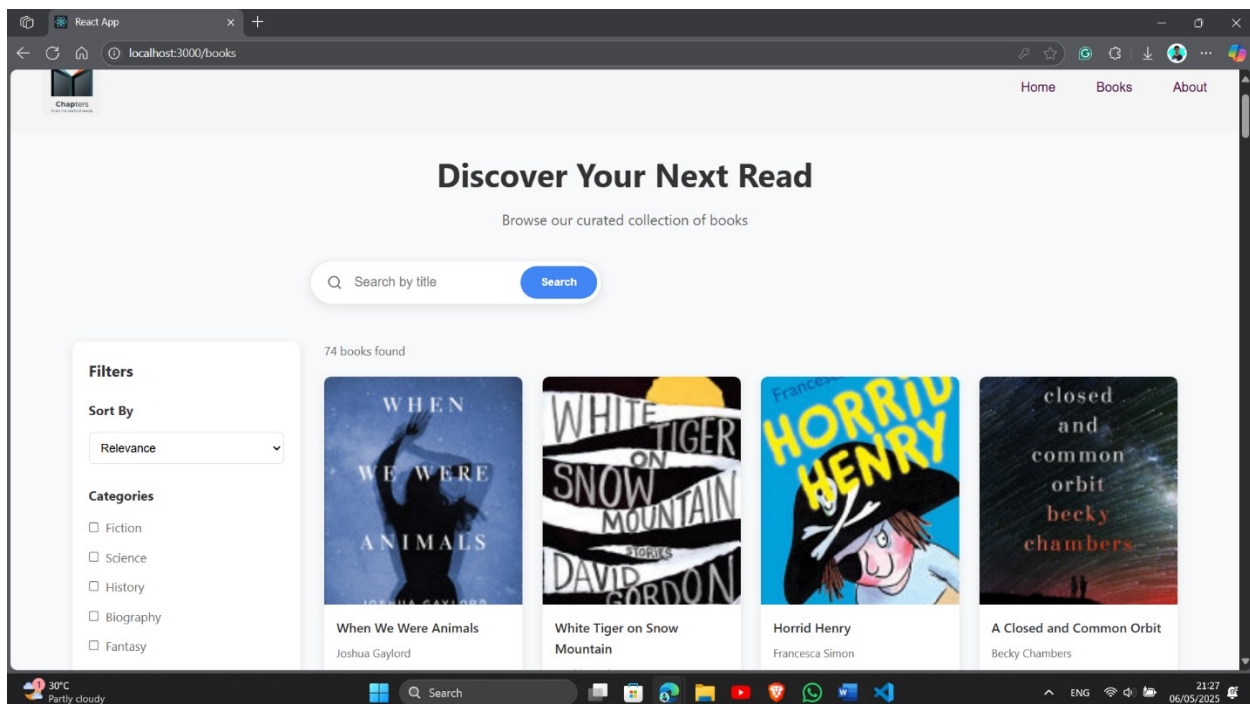
3

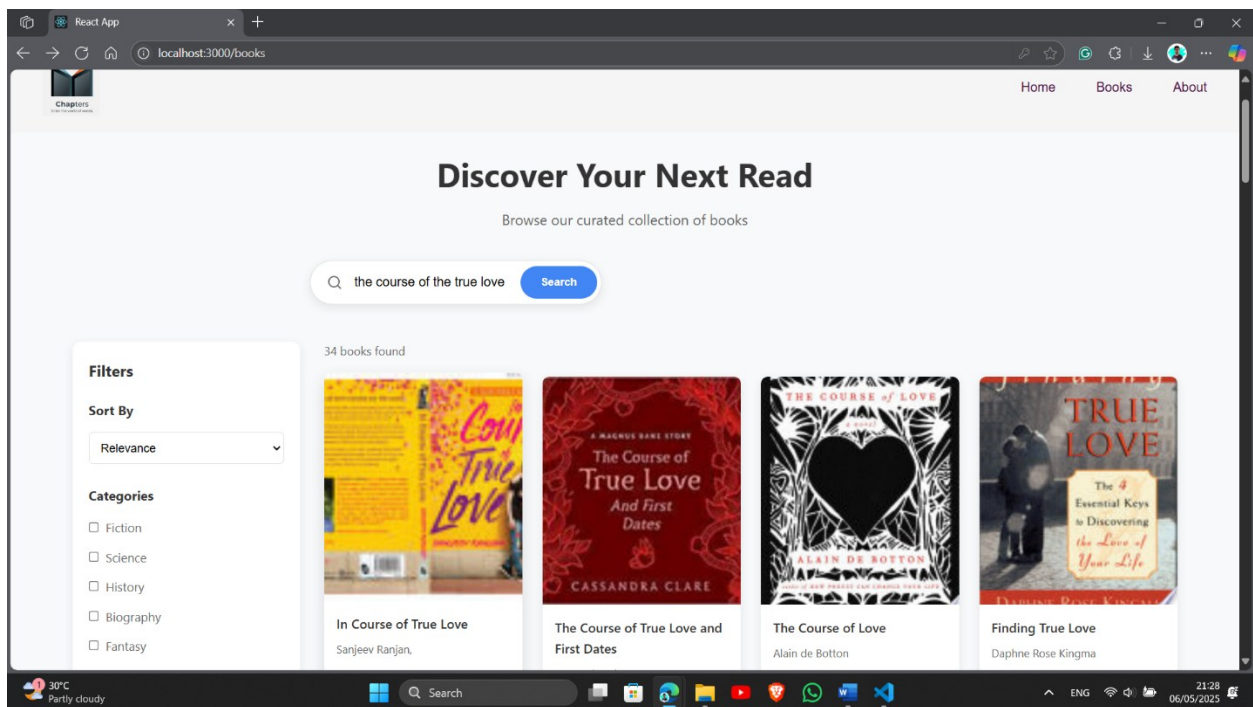
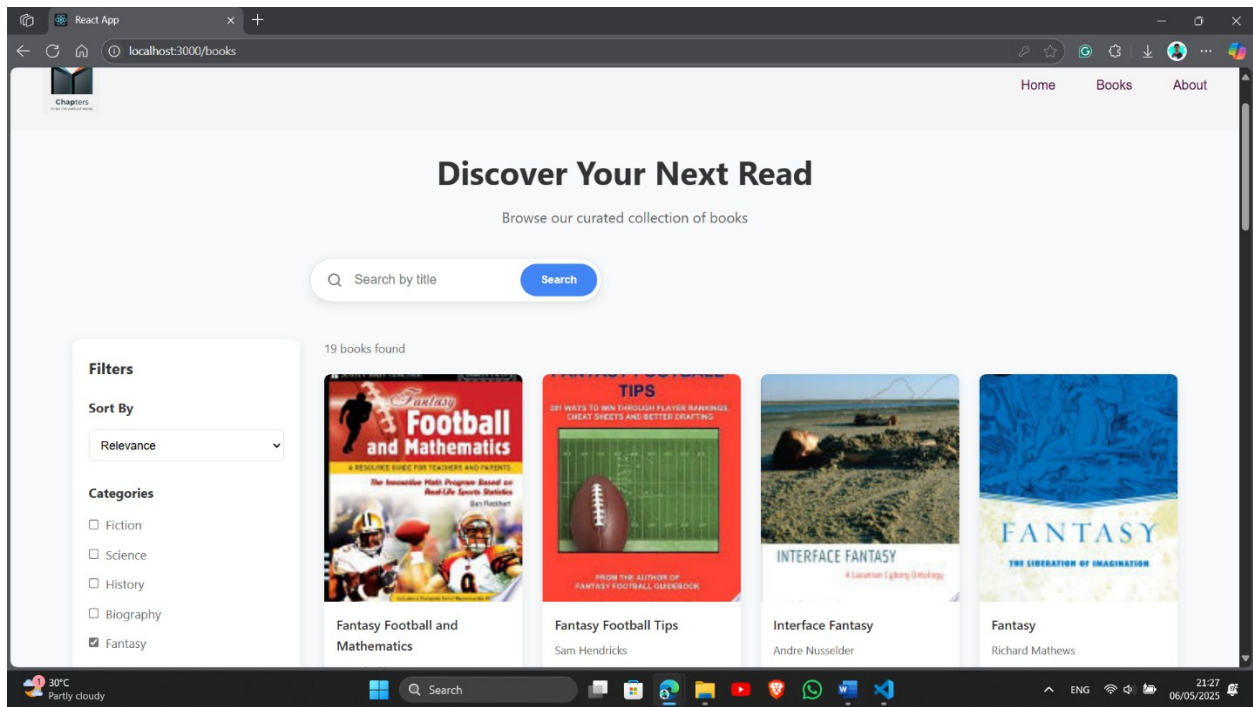


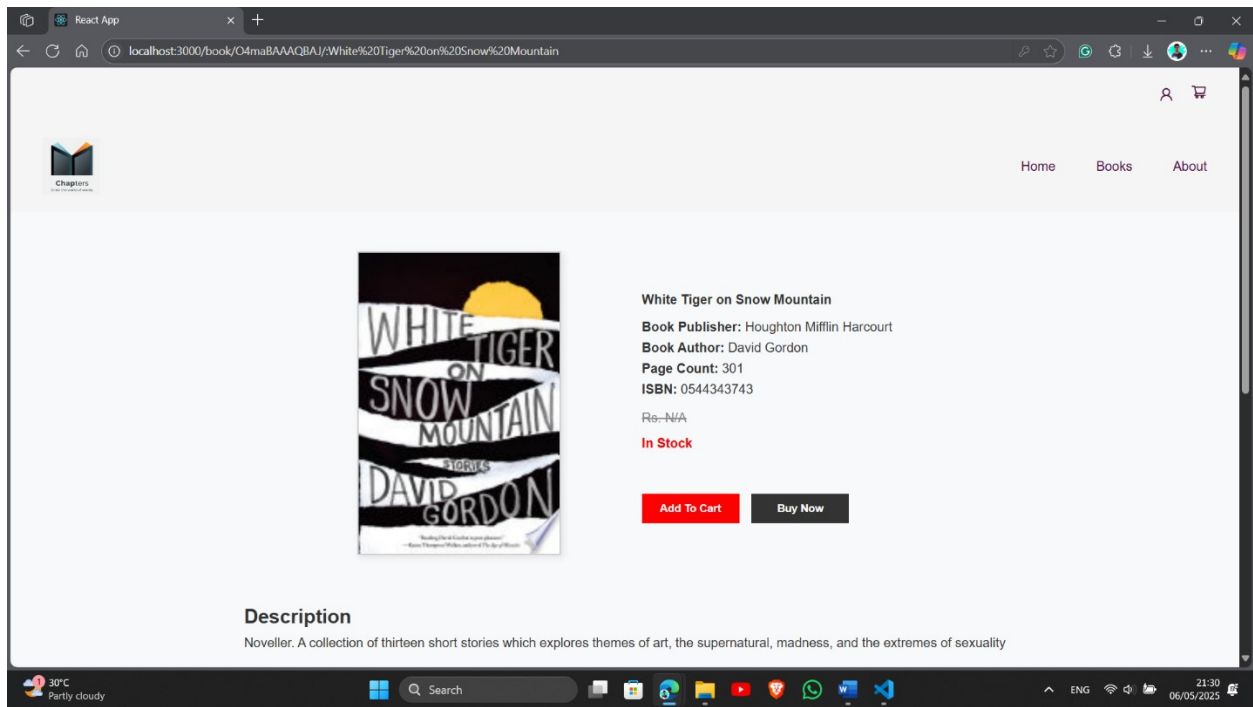
4

5 Book Listing and Search

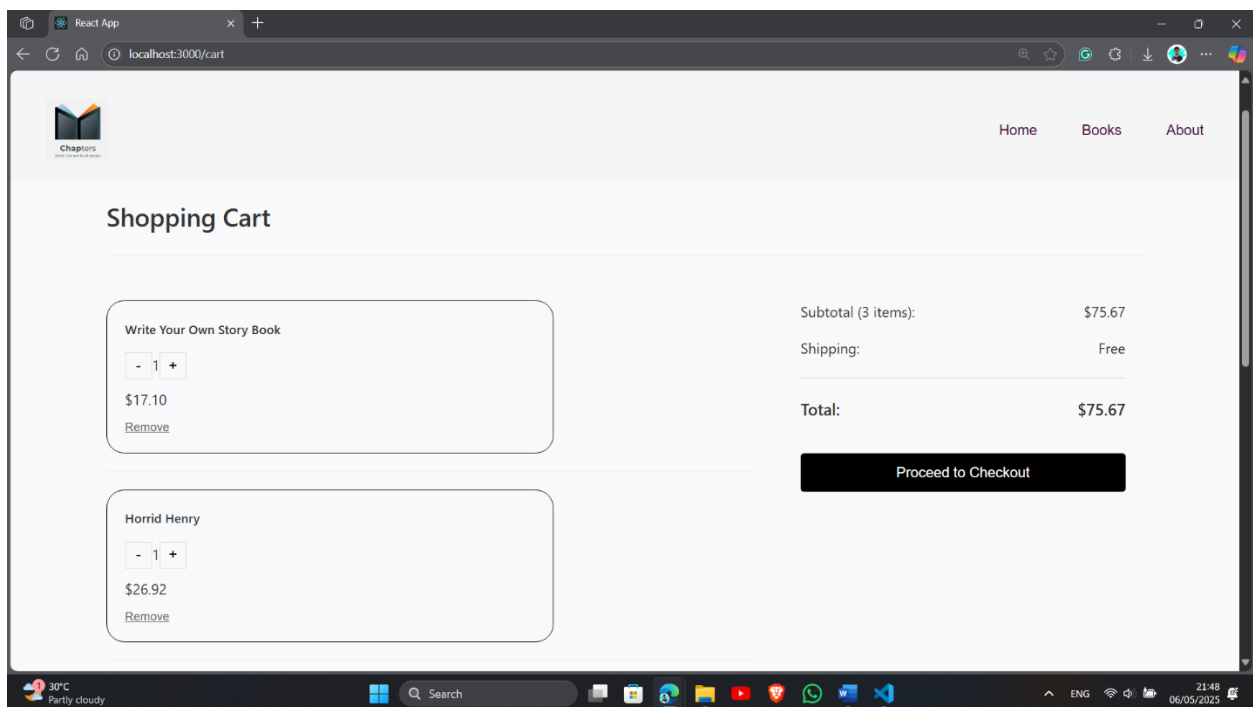
Books can be sorted using the genre of the book. The Books web page provides this sorting functionality. Also, users can search for a book by its name using the search bar.

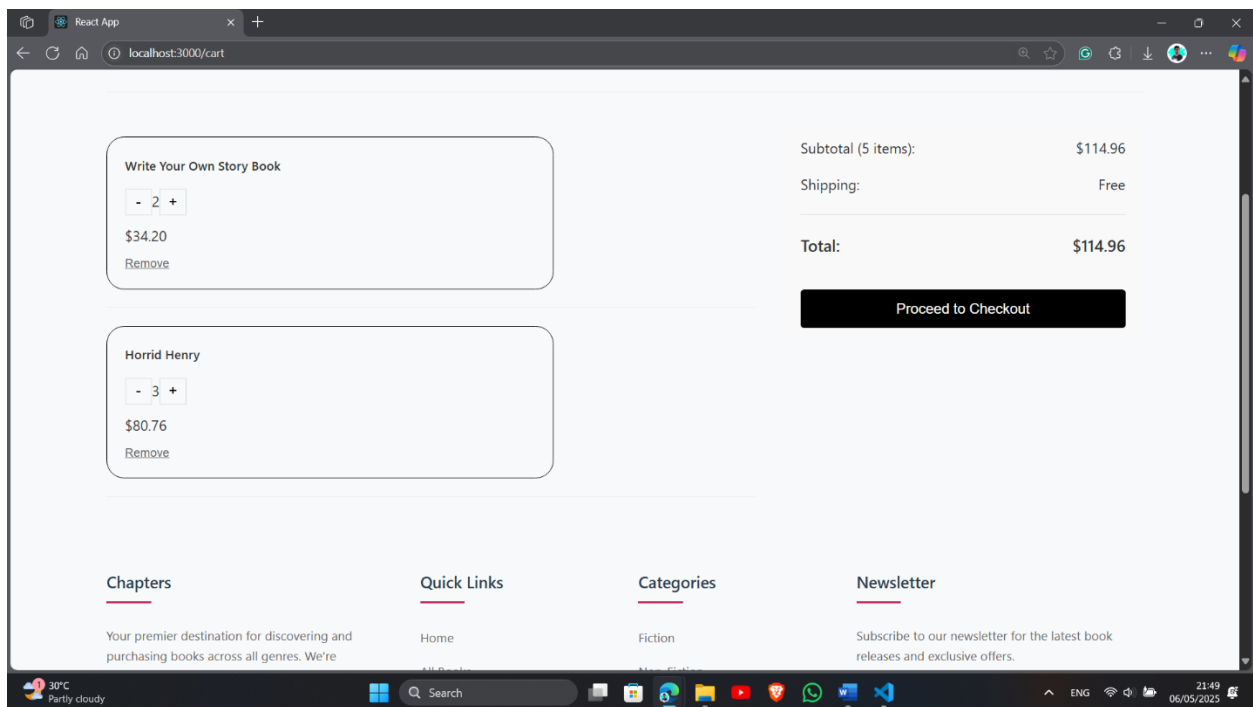
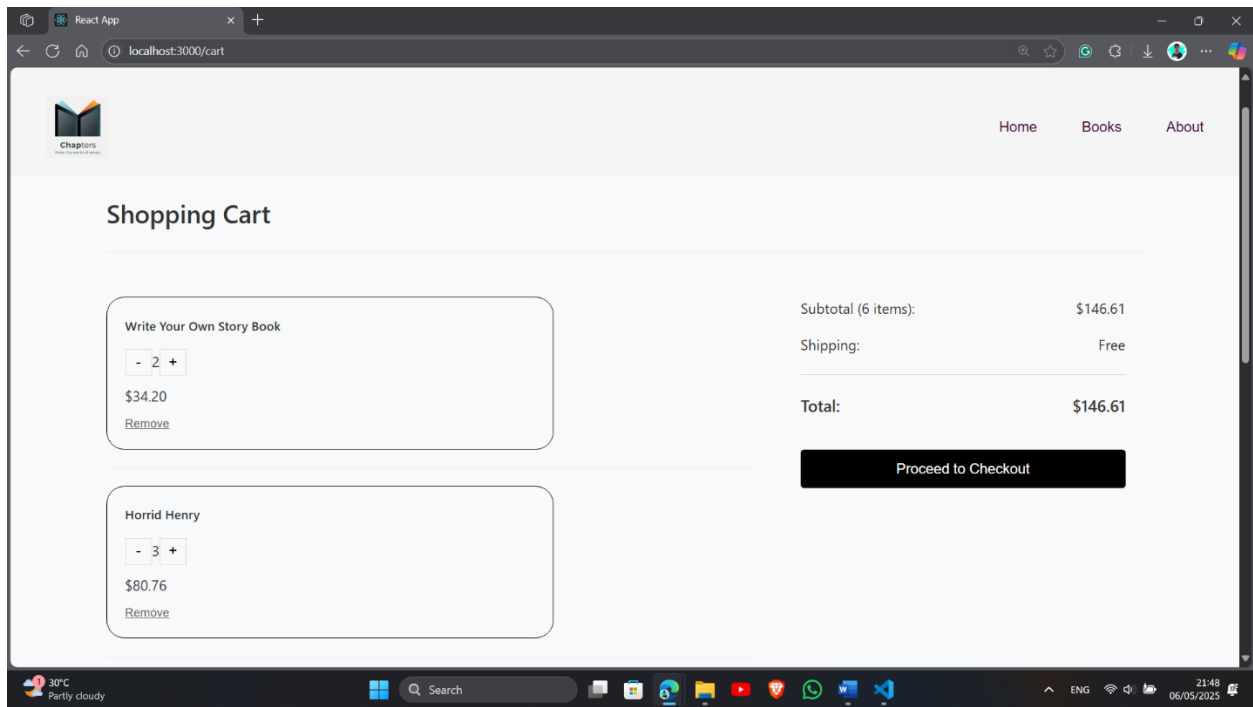


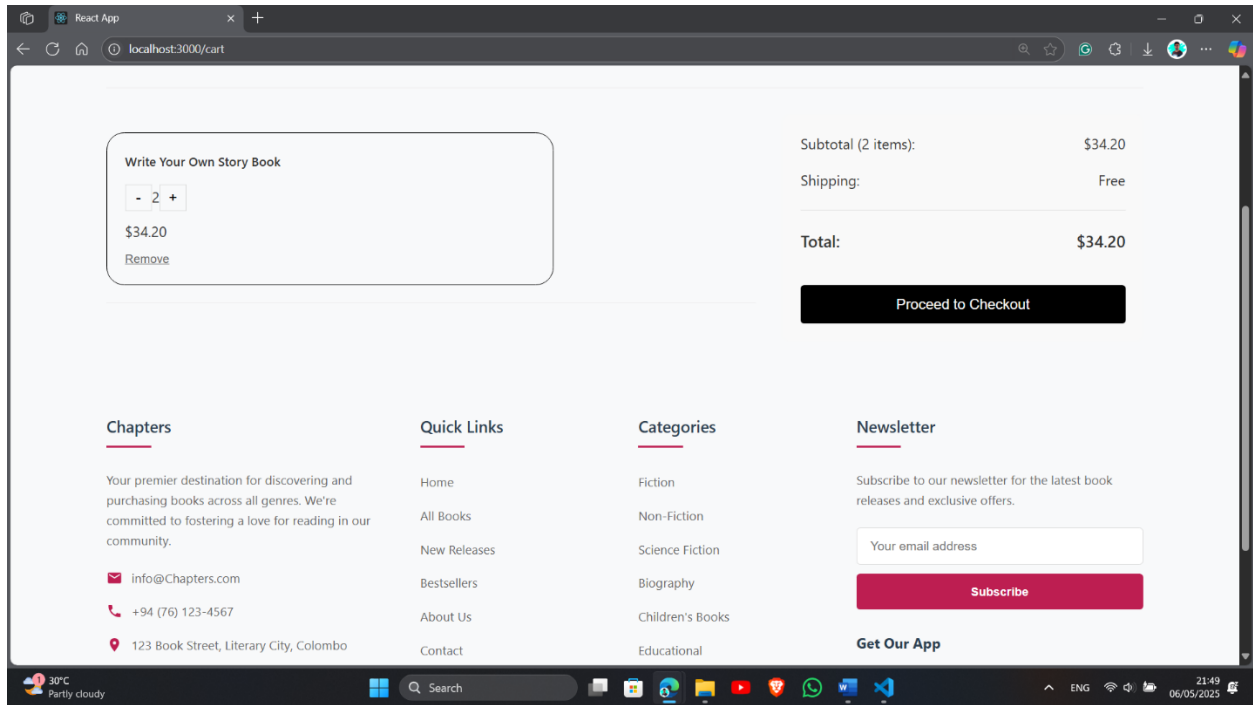




6 Shopping Cart

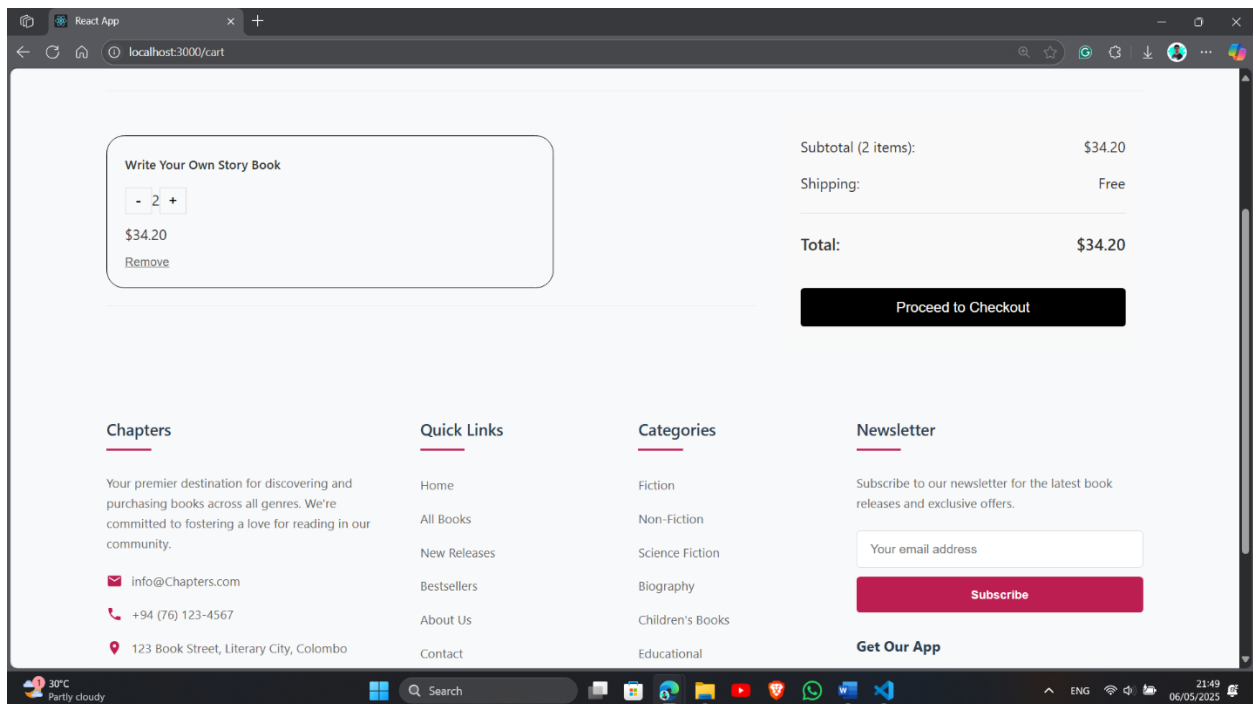


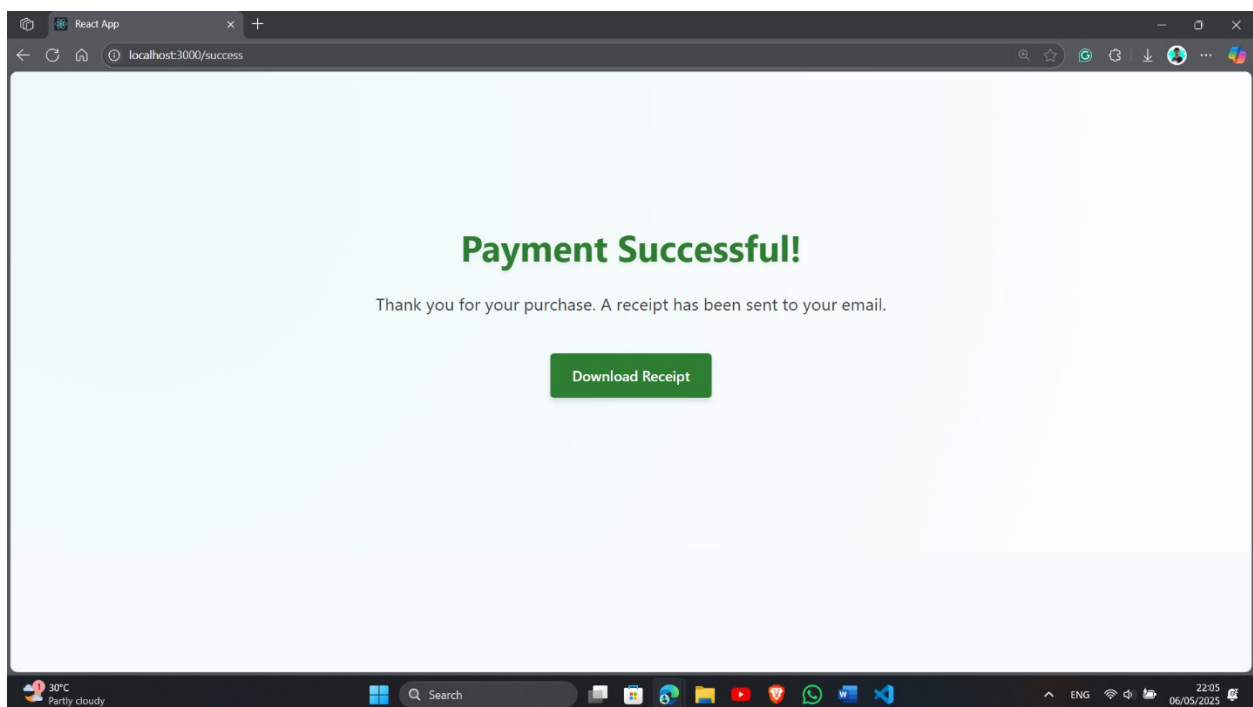
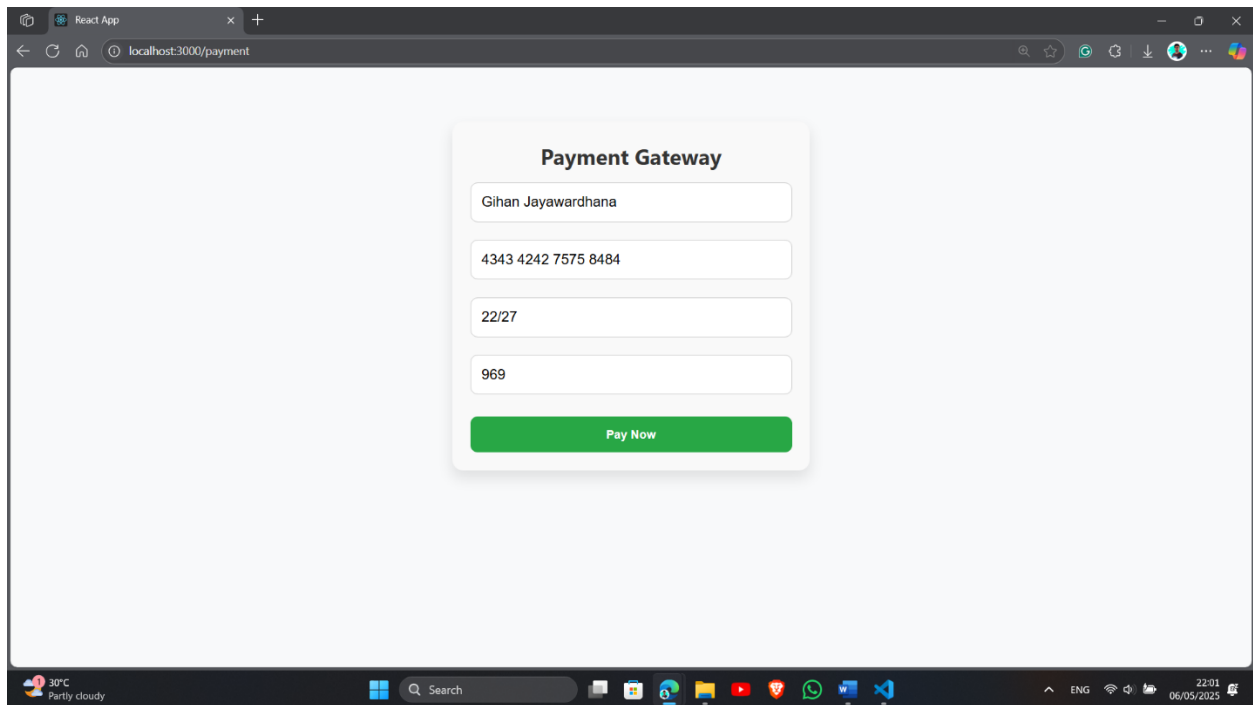




7 Checkout Process

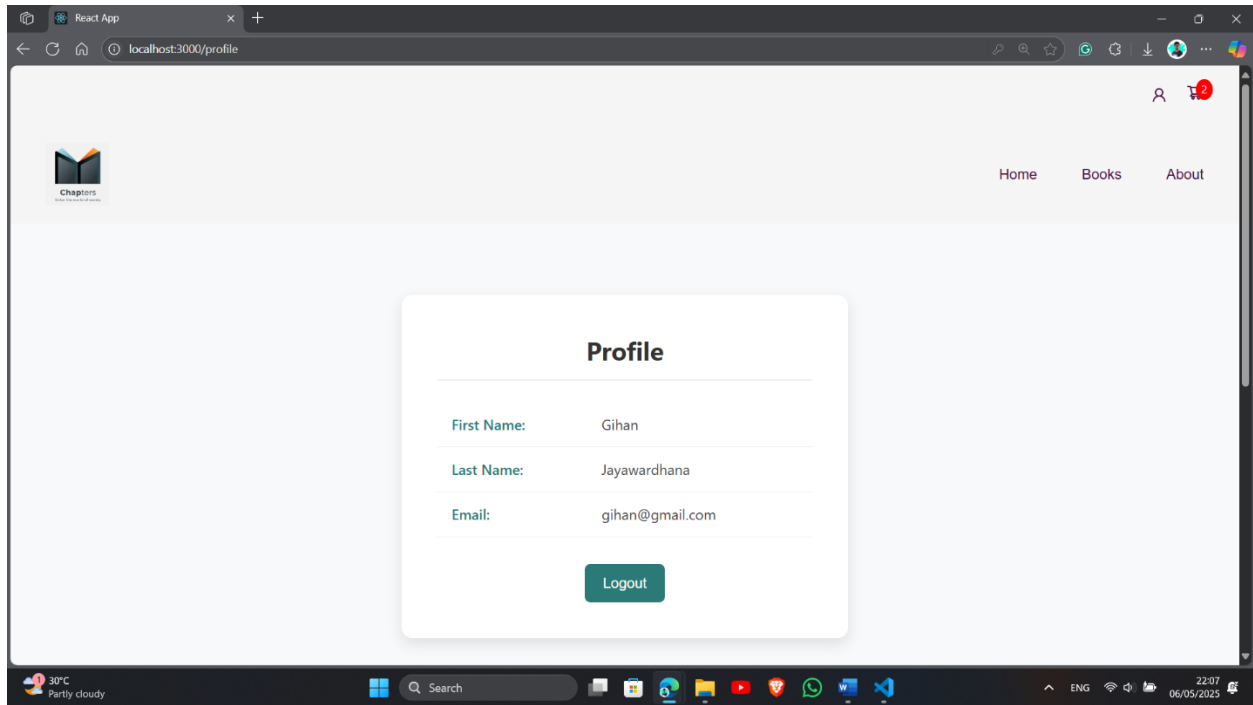
Users can check out the cart items and pay for them through Stripes payment gateway.





8 User Profile

The user data is shown on the profile page after a user login to the website. Until then, the profile page is hidden.



9 Conclusion

The Online Bookshop provides a scalable, user-friendly, and secure platform for book enthusiasts. By leveraging modern technologies like React.js, Node.js, Express.js, and MongoDB, the application ensures fast performance, real-time updates, and a seamless shopping experience.