

BookNest: Where Stories Nestle

Team ID : LTVIP2025TMID53966

Team Members :

- Vangara Bharath Kumar
- Vaddi Gayathridevi
- Veeramallu Deekshitha Maithreyi
- Vakkalagaddda Likitha

INTRODUCTION

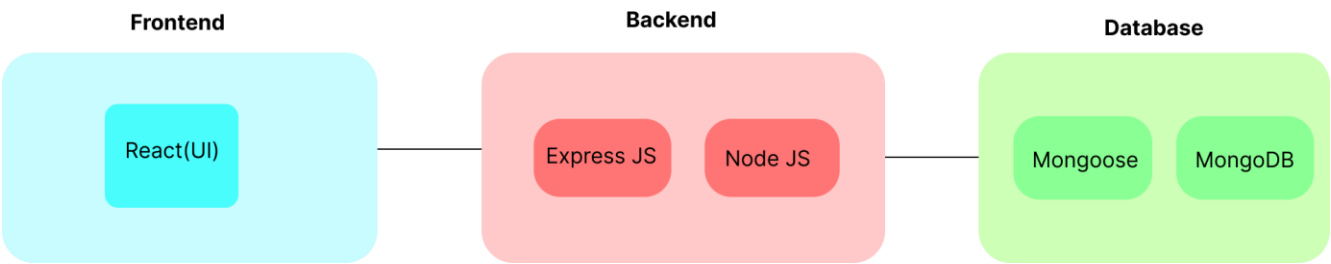
BookNest is a cutting-edge digital bookstore application tailored for the modern bibliophile. Built using the MERN Stack (MongoDB, Express.js, React, Node.js), BookNest offers a seamless and immersive literary browsing and shopping experience. Whether you're discovering new releases or revisiting classics, BookNest redefines how readers connect with literature in the digital age.

Key Highlights:

- Immersive and responsive UI
- Personalized recommendations
- Scalable and efficient backend
- Secure and intuitive purchase experience.

PROJECT OVERVIEW

TECHNICAL ARCHITECTURE:

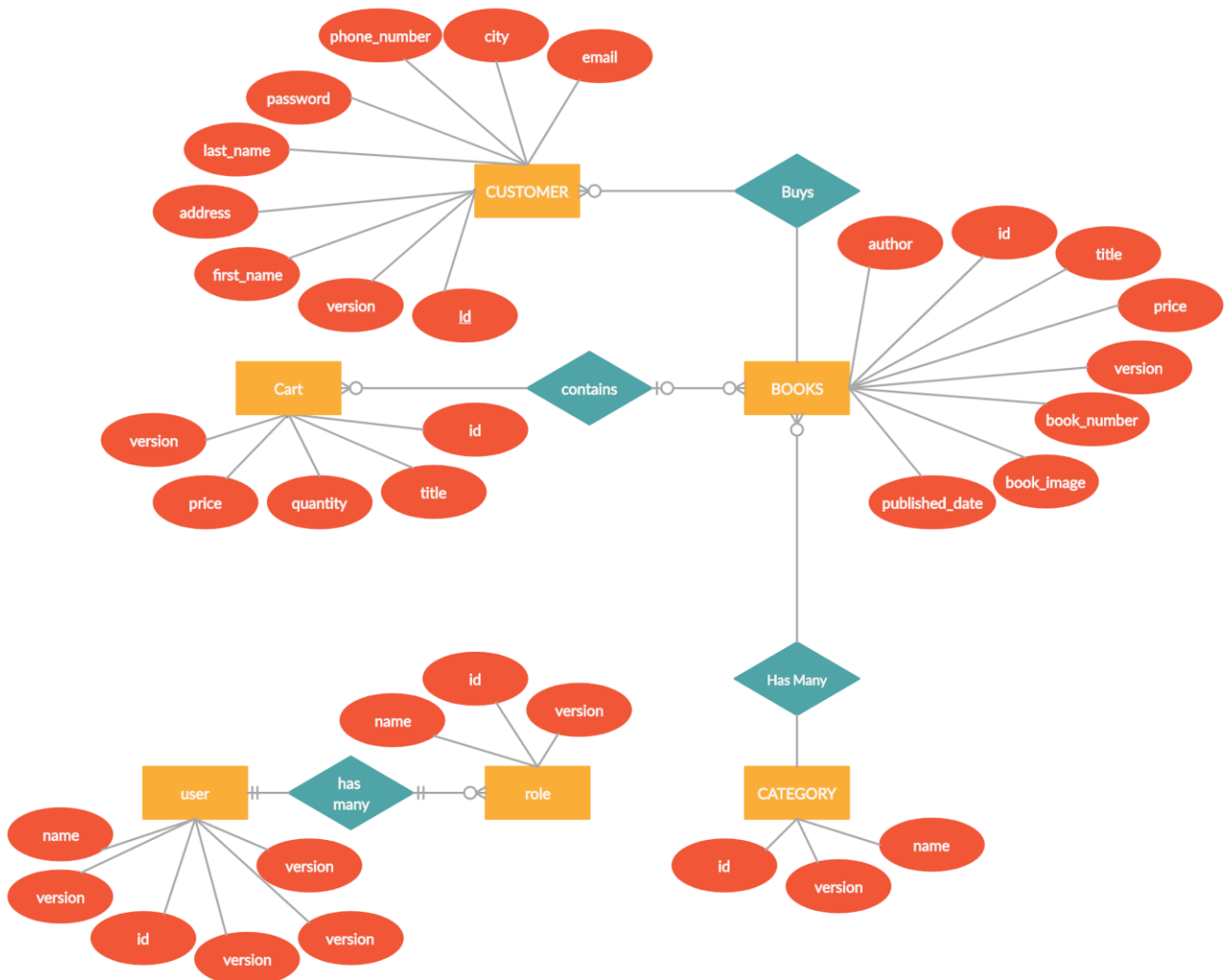


In this architecture diagram:

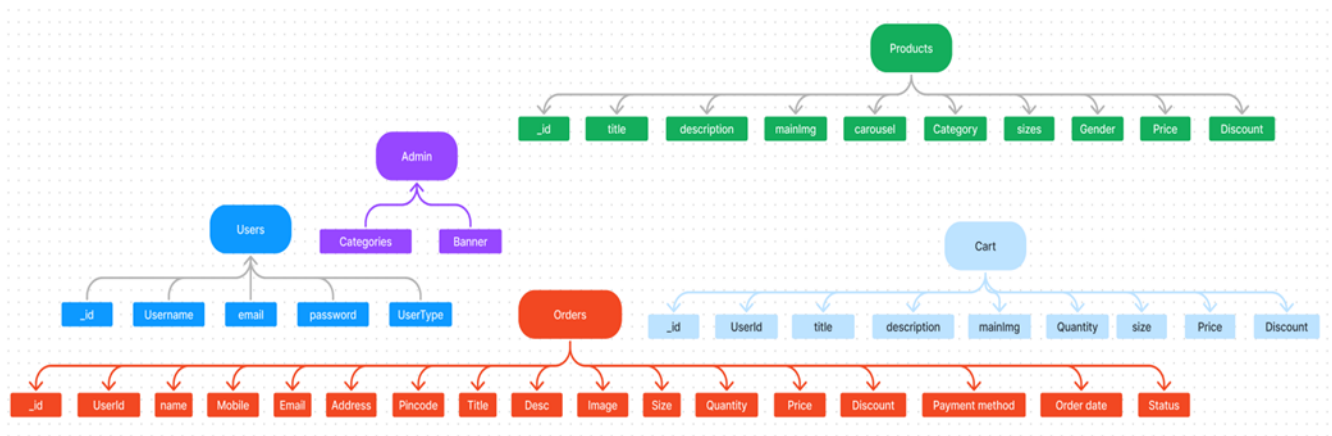
- Frontend (React):** User-facing interface including user authentication, book listings, cart, profile, and admin dashboard.
- Backend (Node.js + Express.js):** RESTful APIs for users, books, orders, admin controls.
- Database (MongoDB):** Collections for Users, Books, Cart, Orders, and Admin data.
- API Gateway:** Central entry point for client requests, routing to appropriate services.

Authentication Service: Handles registration, login, JWT-based sessions, and role-based access.

ER DIAGRAM:



- The Database section represents the database that stores collections for Users, Admin, Cart, Orders and products.



The BookNest ER diagram illustrates the relationships between users, books, carts, and orders, ensuring seamless tracking of user interactions and transaction flows across the application.

User: User registration and profile

Admin: Manages books, orders, and categories

Books: Title, author, genre, price, description, stock

Cart: Tracks user-selected books before purchase

Orders: Stores completed transactions with details

PURPOSE:

BookNest is designed to provide an online bookstore where users can:

1. Easily register and authenticate
2. Discover and browse books by genre, author, or rating
3. Add books to cart and complete secure purchases
4. Track orders and review purchase history
5. Admins can manage books, users, and orders

FEATURES:

1. Comprehensive Book Catalog: Explore detailed listings with title, author, price, genre, reviews, and availability.

2. Personalized Discovery: Filter and search books by user preferences.

3. Secure Checkout: Streamlined order placement with secure payment integrations.

4. Order Confirmation: Post-purchase details including order ID, book list, and shipping info.

5. User Dashboard: View current and past orders, rate purchases, and track shipments.

6.Admin Dashboard: Add/edit/remove books, view sales data, manage users and orders.

PREREQUISITES:

To develop a full-stack e-commerce app using React JS, Node.js, and MongoDB, there are several prerequisites you should consider. Here are the key prerequisites for developing such an application:

Node.js and npm:

Install Node.js, which includes npm (Node Package Manager), on your development machine. Node.js is required to run JavaScript on the server side.

- Download: <https://nodejs.org/en/download/>
- Installation instructions: <https://nodejs.org/en/download/package-manager/>

MongoDB: Set up a MongoDB database to store hotel and booking information. Install MongoDB locally or use a cloud-based MongoDB service.

- Download: <https://www.mongodb.com/try/download/community>
- Installation instructions: <https://docs.mongodb.com/manual/installation/>

Express.js: Express.js is a web application framework for Node.js. Install Express.js to handle server-side routing, middleware, and API development.

- Installation: Open your command prompt or terminal and run the following command:
npm install express

React.js: React.js is a popular JavaScript library for building user interfaces. It enables developers to create interactive and reusable UI components, making it easier to build dynamic and responsive web applications. To install React.js, a JavaScript library for building user interfaces, follow the installation guide:

<https://reactjs.org/docs/create-a-new-react-app.html>

HTML, CSS, and JavaScript: Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.

Database Connectivity: Use a MongoDB driver or an Object-Document Mapping (ODM) library like Mongoose to connect your Node.js server with the MongoDB database and perform CRUD (Create, Read, Update, Delete) operations.

Front-end Framework: Utilize Angular to build the user-facing part of the application, including product listings, booking forms, and user interfaces for the admin dashboard.

Version Control: Use Git for version control, enabling collaboration and tracking changes throughout the development process. Platforms like GitHub or Bitbucket can host your repository.

- Git: Download and installation instructions can be found at: <https://git-scm.com/downloads>

Development Environment: Choose a code editor or Integrated Development Environment (IDE) that suits

your preferences, such as Visual Studio Code, Sublime Text, or WebStorm.

- Visual Studio Code: Download from <https://code.visualstudio.com/download>
- Sublime Text: Download from <https://www.sublimetext.com/download>
- WebStorm: Download from <https://www.jetbrains.com/webstorm/download>

To Connect the Database with Node JS go through the below provided link: •

Link: <https://www.section.io/engineering-education/nodejs-mongoosejs-mongodb/>

To run the existing BookNest App project downloaded from github:

Follow below steps:

Clone the repository:

- Open your terminal or command prompt.
- Navigate to the directory where you want to store the BookNest app.
- Execute the following command to clone the repository:

Git clone: <https://github.com/yaswanthpuritipati/ShopEZ-e-commerce-MERN>

Install Dependencies:

- Navigate into the cloned repository directory:
cd SBookNest-MERN
- Install the required dependencies by running the following command: **npm install**

Start the Development Server:

- To start the development server, execute the following command:
npm run dev or npm run start
- The e-commerce app will be accessible at <http://localhost:4000> by default. You can change the port configuration in the .env file if needed.

Access the App:

- Open your web browser and navigate to <http://localhost:4000>.
- You should see the flight booking app's homepage, indicating that the installation and setup were successful.

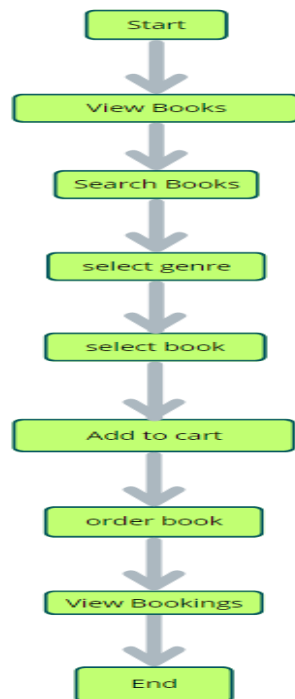
You have successfully installed and set up the BookNest app on your local machine. You can now

proceed with further customization, development, and testing as needed.

USER & ADMIN FLOW:

1. User Flow:

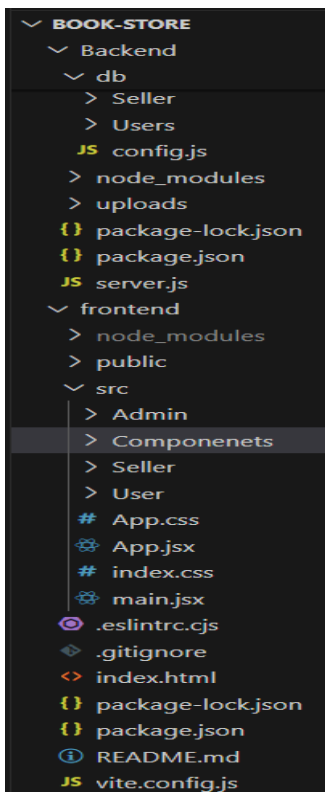
- Users start by registering for an account.
- After registration, they can log in with their credentials.
- Once logged in, they can check for the available books in the platform.
- Users can add the books they wish to their carts and order.
- They can then proceed by entering address and payment details.
- After ordering, they can check them in the profile section.



2. Admin Flow:

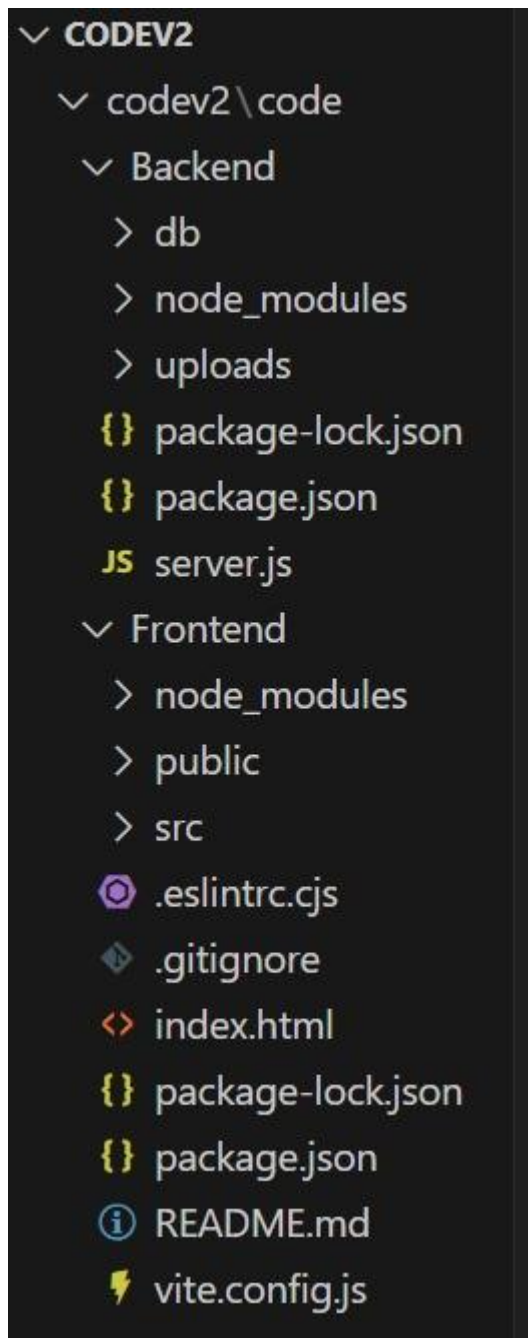
- Admins start by logging in with their credentials.
- Once logged in, they are directed to the Admin Dashboard.
- Admins can access the users list, books, orders, etc.,

PROJECTSTRUCTURE:



This structure assumes a React app and follows a modular approach. Here's a brief explanation of the main directories and files:

- src/components: Contains components related to the application such as, register, login, home, etc.,
- src/pages has the files for all the pages in the application.



PROJECT SETUP AND CONFIGURATION:

Install required tools and software:

- Node.js.

Reference Article: <https://www.geeksforgeeks.org/installation-of-node-js-on-windows/>

- Git.

Reference Article: <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

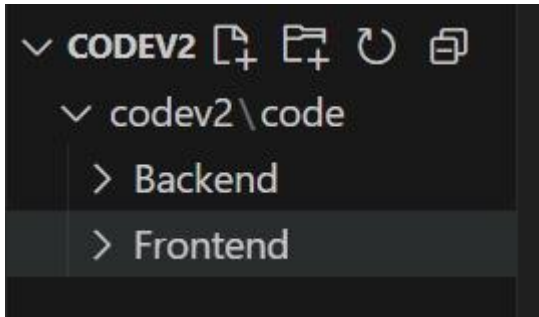
Create project folders and files:

- Client folders.
- Server folders

Referral Video Link:

https://drive.google.com/file/d/1uSMbPIAR6rfAEMcb_nLZAZd5QljTpnYQ/view?usp=sharing

Referral Image:



DATABASE DEVELOPMENT:

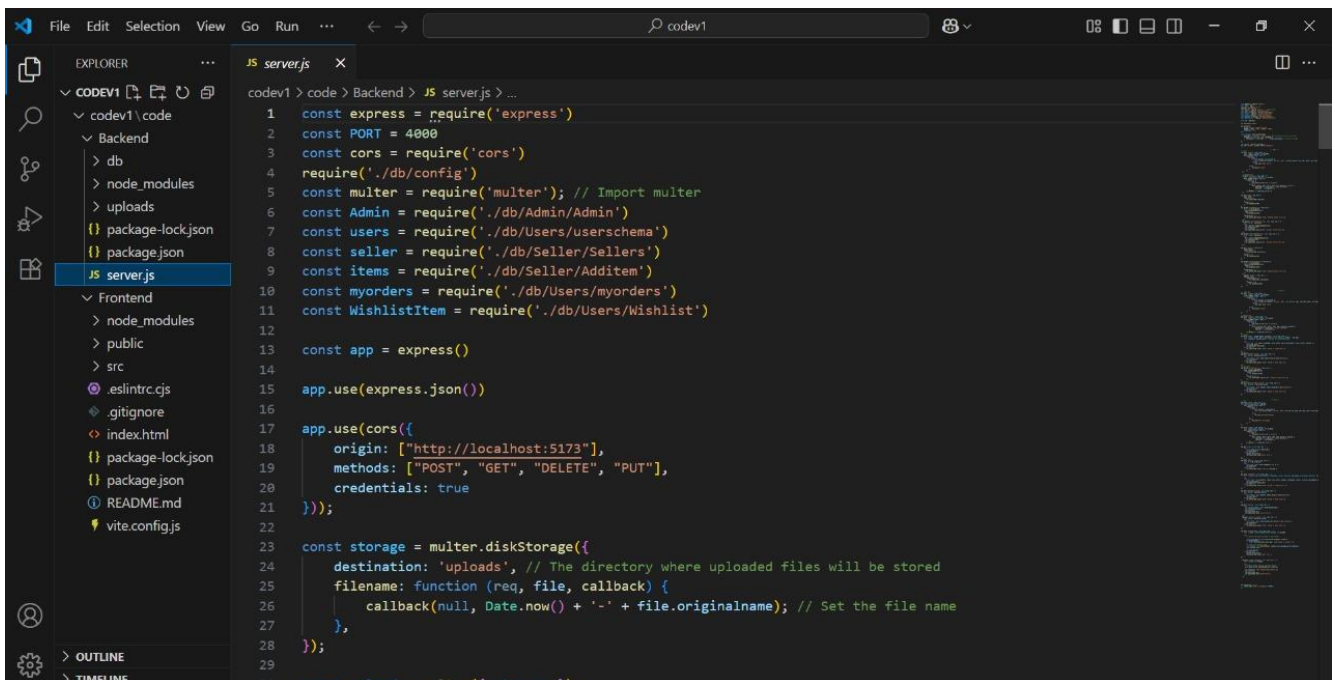
Create database in cloud video link:- <https://drive.google.com/file/d/1CQil5KzGnPvkVOPWTLp0h-Bu2bXhq7A3/view>

- Install Mongoose.
- Create database connection.

Reference Video of connect node with mongoDB database: https://drive.google.com/file/d/1cTS3_EOAAvDctkibG5zVikrTdmoy2Ag/view?usp=sharing

Reference Article: <https://www.mongodb.com/docs/atlas/tutorial/connect-to-your-cluster/>

Reference Image:



Model use-case:

1. User Model:

- Model: 'User'

- The User schema represents the user data and includes fields such as username, email, and password.
- It is used to store user information for registration and authentication purposes.
- The email field is marked as unique to ensure that each user has a unique email address

2. Book Model:

- Model: 'Book'
- The Book schema represents the data of all the books in the platform.
- It is used to store information about the book details, which will later be useful for ordering .

3. Order Model:

- Model: 'Order'
- The Orders schema represents the orders data and includes fields such as userId, book Id, book name, quantity, size, order date, etc.,
- It is used to store information about the orders made by users.
- The user Id field is a reference to the user who made the order.

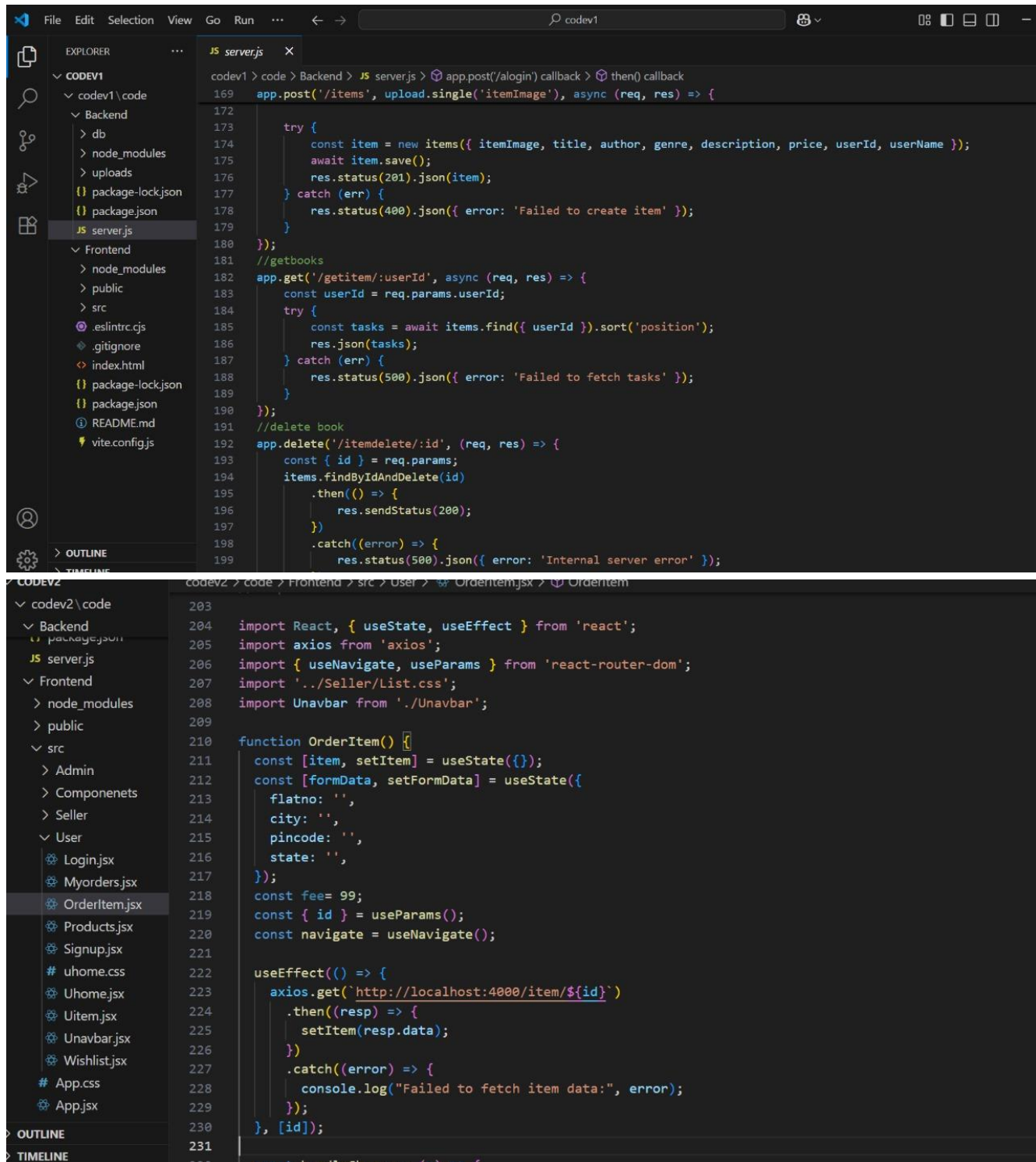
Code Explanation:



```

codev2 > code > Frontend > src > User > Login.jsx > Login > handleSubmit > then() callback
1  import React, { useState } from 'react';
2  import { useNavigate } from 'react-router-dom';
3  import axios from 'axios';
4  import Home from '../Components/Home';
5
6  const Login = () => {
7    const [email, setEmail] = useState('');
8    const [password, setPassword] = useState('');
9    const [loading, setLoading] = useState(false);
10   const navigate = useNavigate();
11
12   axios.defaults.withCredentials = true;
13
14   const handleSubmit = (e) => {
15     e.preventDefault();
16     setLoading(true);
17
18     let payload = { email, password };
19     axios
20       .post("http://localhost:4000/login", payload)
21       .then((res) => {
22         console.log("login: " + res.data.Status);
23         if (res.data.Status === "Success") {
24           console.log(res.data.user);
25           localStorage.setItem('user', JSON.stringify(res.data.user));
26           navigate('/uhome');
27           alert("Login successful");
28         } else {

```



BACKEND DEVELOPMENT:

Setup express server:

- Create index.js file.
- Create an express server on your desired port number.
- Define API's

Reference Video: https://drive.google.com/file/d/1-uKMIcrok_ROHyZl2vRORggrYRio2qXS/view?usp=sharing

Set Up Project Structure:

- Create a new directory for your project and set up a package.json file using the `npm init` command.

- Install necessary dependencies such as Express.js, Mongoose, and other required packages.

Reference Video: <https://drive.google.com/file/d/19df7NU-gQK3DO6wr7ooAfJYlQwnemZoF/view?usp=sharing>

Reference Images:

```

1  {
2    "name": "backend",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \\\"Error: no test specified\\\" && exit 1",
8      "start": "nodemon server.js"
9    },
10   "author": "",
11   "license": "ISC",
12   "dependencies": {
13     "cors": "^2.8.5",
14     "express": "^4.18.2",
15     "mongoose": "^8.0.1",
16     "multer": "^1.4.5-lts.1",
17     "nodemon": "^3.0.1"
18   }
19 }
20

```

2. Database Configuration:

- Set up a MongoDB database either locally or using a cloud-based MongoDB service like MongoDB Atlas or use locally with MongoDB compass.
- Create a database and define the necessary collections for admin, users, products, orders and other relevant data.

3. Create Express.js Server:

- Set up an Express.js server to handle HTTP requests and serve API endpoints.
- Configure middleware such as body-parser for parsing request bodies and cors for handling cross-origin requests.

4. Define API Routes:

- Create separate route files for different API functionalities such as users, orders, and authentication.
- Define the necessary routes for listing books, handling user registration and login, managing orders, etc.
- Implement route handlers using Express.js to handle requests and interact with the

database.

5. Implement Data Models:

- Define Mongoose schemas for the different data entities like books, users, and orders.
- Create corresponding Mongoose models to interact with the MongoDB database.
- Implement CRUD operations (Create, Read, Update, Delete) for each model to perform database operations.

6. User Authentication:

- Create routes and middleware for user registration, login, and logout.
- Set up authentication middleware to protect routes that require user authentication.

7. Handle new products and Orders:

- Create routes and controllers to handle new book listings, including fetching book data from the database and sending it as a response.
- Implement ordering(buy) functionality by creating routes and controllers to handle order requests, including validation and database updates.

8. Admin Functionality:

- Implement routes and controllers specific to admin functionalities such as adding books, managing user orders, etc.
- Add necessary authentication and authorization checks to ensure only authorized admins can access these routes.

9. Error Handling:

- Implement error handling middleware to catch and handle any errors that occur during the API requests.
- Return appropriate error responses with relevant error messages and HTTP status codes.

WEB DEVELOPMENT:

1. Setup React Application:

- Create a React app in the client folder.
- Install required libraries
- Create required pages and components and add routes.

2.Design UI components:

- Create Components.
- Implement layout and styling.

- Add navigation.

3.Implement frontend logic:

- Integration with API endpoints.
- Implement data binding.

Reference Video Link:

<https://drive.google.com/file/d/1EokogagcLMUGilluwHGYQo65x8GRpDcP/view?usp=sharing>

Reference Article Link:

https://www.w3schools.com/react/react_getstarted.asp

Reference Image:

```

codev2 > code > Frontend > src > App.jsx > ...
27 import Items from "../Admin/items"
28
29 function App() {
30   return (
31     <div className="app">
32       <BrowserRouter>
33         <Routes>
34           <Route path="/" element={<Home/>} />
35
36           /* Admin */
37           <Route path="/alogin" element={<Alogin/>} />
38           <Route path="/asignup" element={<Asignup/>} />
39           <Route path="/ahome" element={<Ahome/>} />
40           <Route path="/users" element={<Users/>} />
41           <Route path="/sellers" element={<Seller/>} />
42           <Route path="/items" element={<Items/>} />
43
44           /* Seller */
45           <Route path="/slogin" element={<Slogin/>} />
46           <Route path="/ssignup" element={<Ssignup/>} />
47           <Route path="/shome" element={<Shome/>} />
48           <Route path="/myproducts" element={<Myproducts/>} />
49           <Route path="/addbook" element={<Addbook/>} />
50           <Route path="/book/:id" element={<Book/>} />
51           <Route path="/orders" element={<Orders/>} />
52
53           /* User */
54           <Route path="/login" element={<Login/>} />
55           <Route path="/signup" element={<Signup/>} />
56           <Route path="/nav" element={<Unavbar/>} />

```

PROJECT IMPLEMENTATION & EXECUTION:

User Authentication:

Backend

Now, here we define the functions to handle http requests from the client for authentication.


```
authjs x
server > routes > authjs > router.post('/register') callback > error
28
29 // Login
30 router.post('/login', async (req, res) => {
31   try {
32     const { email, password } = req.body;
33     const user = await User.findOne({ email });
34     if (!user) return res.status(400).json({ error: 'Invalid credentials' });
35     const match = await bcrypt.compare(password, user.password);
36     if (!match) return res.status(400).json({ error: 'Invalid credentials' });
37     const token = jwt.sign({ id: user._id, isAdmin: user.isAdmin }, JWT_SECRET, { expiresIn: '7d' });
38     res.json({ token, user: { id: user._id, name: user.name, email: user.email, isAdmin: user.isAdmin } });
39   } catch (err) {
40     res.status(500).json({ error: err.message });
41   }
42 });
43
44 module.exports = router;
```

Frontend

Login:

```
CODEV2  code > Frontend > src > User > Login.jsx > Login > handleSubmit > then() callback
  codev2\code
  > Backend
  > Frontend
  > node_modules
  > public
  > src
  > Admin
  > Componenets
  > Seller
  > User
  Login.jsx
  Myorders.jsx
  OrderItem.jsx
  Products.jsx
  Signup.jsx
  # uhome.css
  Uhome.jsx
  Uitem.jsx
  Unavbar.jsx
  Wishlist.jsx
  # App.css
  App.jsx
  # index.css
  main.jsx
  > OUTLINE
  \ TIMELINE

1  import React, { useState } from 'react';
2  import { useNavigate } from 'react-router-dom';
3  import axios from 'axios';
4  import Home from '../Componenets/Home';
5
6  const Login = () => {
7    const [email, setEmail] = useState('');
8    const [password, setPassword] = useState('');
9    const [loading, setLoading] = useState(false);
10   const navigate = useNavigate();
11
12   axios.defaults.withCredentials = true;
13
14   const handleSubmit = (e) => {
15     e.preventDefault();
16     setLoading(true);
17
18     let payload = { email, password };
19     axios
20       .post("http://localhost:4000/login", payload)
21       .then((res) => {
22         console.log("login: " + res.data.Status);
23         if (res.data.Status === "Success") {
24           console.log(res.data.user);
25           localStorage.setItem('user', JSON.stringify(res.data.user));
26           navigate('/uhome');
27           alert("Login successful");
28         } else {
29           alert("Wrong credentials");
```

Register:



```
1 import React, { useState } from 'react';
2 import { useNavigate } from 'react-router-dom';
3 import axios from 'axios';
4 import Home from '../Componenets/Home';
5
6 const Signup = () => {
7   const [name, setName] = useState('');
8   const [email, setEmail] = useState('');
9   const [password, setPassword] = useState('');
10  const [loading, setLoading] = useState(false);
11
12  const navigate = useNavigate();
13
14  const handleSubmit = (e) => {
15    e.preventDefault();
16    setLoading(true);
17
18    let payload = { name, email, password };
19
20    axios
21      .post("http://localhost:4000/signup", payload)
22      .then((result) => {
23        alert('Account created successfully!');
24        console.log(result);
25        navigate('/login');
26      })
27      .catch((err) => {
28        console.log(err);
29        alert("Failed to create an account. Please try again.");
30      })
31  }
```

logout:

```
36 const logout = () => {
37   localStorage.removeItem('user');
38   localStorage.removeItem('token');
39   setUser(null);
40 };
```

All books (User):

In the home page, we'll fetch all the books available in the platform along with the filters.

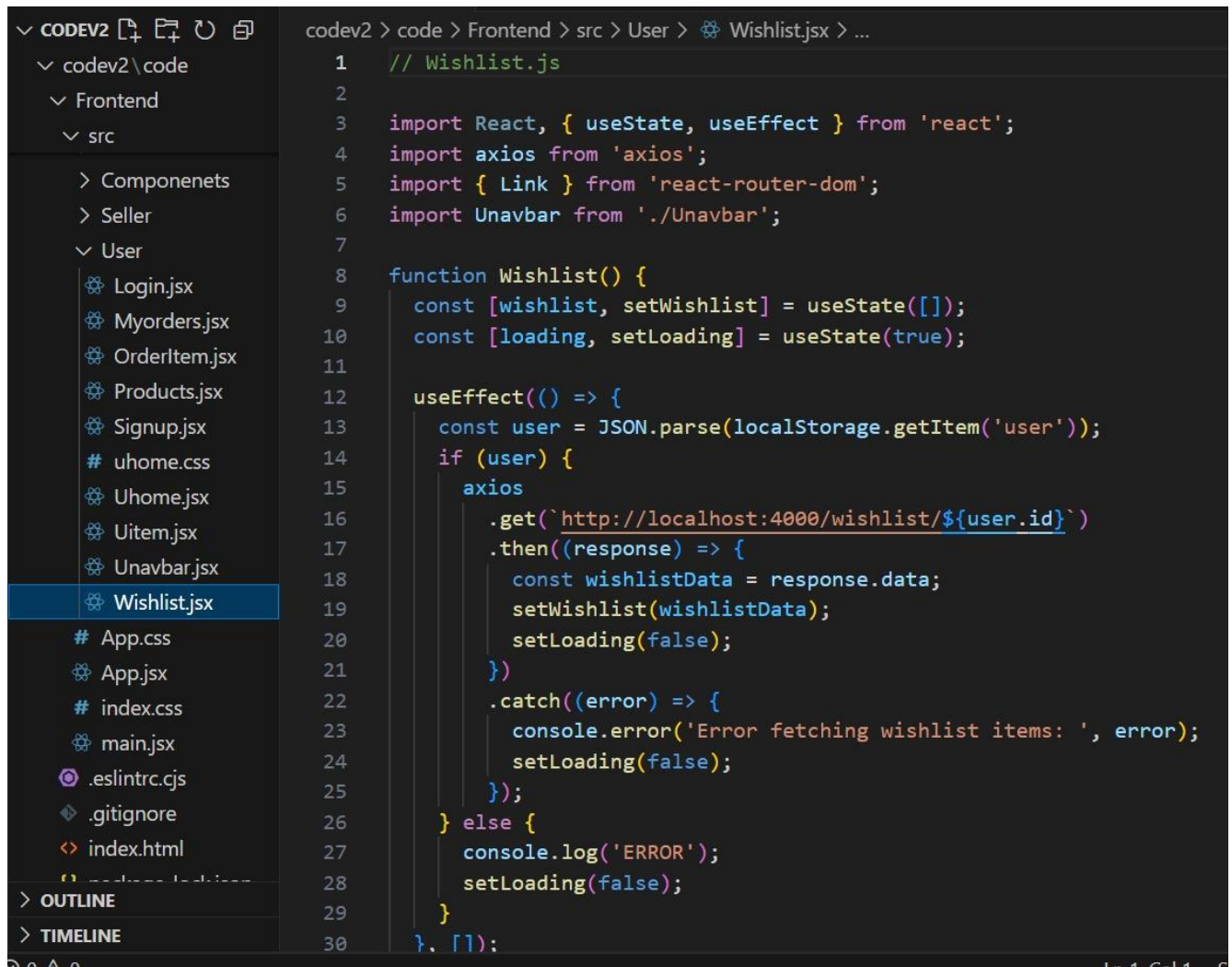
Fetching books:


```
CODEV2 > code > Frontend > src > User > Products.jsx > ...
1 import React, { useState, useEffect } from 'react';
2 import axios from 'axios';
3 import Unavbar from './Unavbar';
4 import { Link } from 'react-router-dom';
5
6 function Products() {
7   const [items, setItems] = useState([]);
8   const [wishlist, setWishlist] = useState([]);
9   const [loading, setLoading] = useState(true);
10  const [searchTerm, setSearchTerm] = useState('');
11  const [selectedGenre, setSelectedGenre] = useState('all');
12
13  useEffect(() => {
14    // Fetch all items
15    axios
16      .get('http://localhost:4000/item')
17      .then((response) => {
18        const taskData = response.data;
19        setItems(taskData);
20        setLoading(false);
21      })
22      .catch((error) => {
23        console.error('Error fetching tasks: ', error);
24        setLoading(false);
25      });
26
27    // Fetch wishlist items
28    const user = JSON.parse(localStorage.getItem('user'));
29    if (user) {
30      axios.get('http://localhost:4000/wishlist/${user.id}')
```

In the backend, we fetch all the products and then filter them on the client side.

```
CODEV2 > code > Frontend > src > User > Uitem.jsx > ...
1 import axios from 'axios';
2 import React, { useEffect, useState } from 'react';
3 import { Link, useParams } from 'react-router-dom';
4 import Unavbar from './Unavbar';
5
6 const Uitem = () => {
7   const [item, setItem] = useState(null);
8   const [loading, setLoading] = useState(true);
9   const [wishlist, setWishlist] = useState([]);
10  const [isInWishlist, setIsInWishlist] = useState(false);
11
12  const { id } = useParams();
13
14  useEffect(() => {
15    // Fetch book details
16    axios.get('http://localhost:4000/item/${id}')
17      .then((resp) => {
18        console.log(resp);
19        setItem(resp.data);
20        setLoading(false);
21      })
22      .catch(() => {
23        console.log("Did not get data");
24        setLoading(false);
25      });
26
27    // Fetch wishlist to check if book is saved
28    const user = JSON.parse(localStorage.getItem('user'));
29    if (user) {
30      axios.get('http://localhost:4000/wishlist/${user.id}')
```

Wishlist:



```
1 // Wishlist.js
2
3 import React, { useState, useEffect } from 'react';
4 import axios from 'axios';
5 import { Link } from 'react-router-dom';
6 import Unavbar from './Unavbar';
7
8 function Wishlist() {
9   const [wishlist, setWishlist] = useState([]);
10  const [loading, setLoading] = useState(true);
11
12  useEffect(() => {
13    const user = JSON.parse(localStorage.getItem('user'));
14    if (user) {
15      axios
16        .get(`http://localhost:4000/wishlist/${user.id}`)
17        .then((response) => {
18          const wishlistData = response.data;
19          setWishlist(wishlistData);
20          setLoading(false);
21        })
22        .catch((error) => {
23          console.error('Error fetching wishlist items: ', error);
24          setLoading(false);
25        });
26    } else {
27      console.log('ERROR');
28      setLoading(false);
29    }
30  }, []);
```

Order Item:

Here, we can add the product to the cart or can buy directly.

```
codev2 > code > Frontend > src > User > OrderItem.jsx > OrderItem

203
204 import React, { useState, useEffect } from 'react';
205 import axios from 'axios';
206 import { useNavigate, useParams } from 'react-router-dom';
207 import '../Seller/List.css';
208 import Unavbar from '../Unavbar';
209
210 function OrderItem() {
211   const [item, setItem] = useState({});
212   const [formData, setFormData] = useState({
213     flatno: '',
214     city: '',
215     pincode: '',
216     state: '',
217   });
218   const fee = 99;
219   const { id } = useParams();
220   const navigate = useNavigate();
221
222   useEffect(() => {
223     axios.get(`http://localhost:4000/item/${id}`)
224       .then((resp) => {
225         setItem(resp.data);
226       })
227       .catch((error) => {
228         console.log("Failed to fetch item data:", error);
229       });
230   }, [id]);
231
232   const handleChange = (e) => {
```

- Backend: In the backend, if we want to buy, then with the address and payment method, we process buying. If we need to add the product to the cart, then we add the product details along with the user Id to the cart collection.

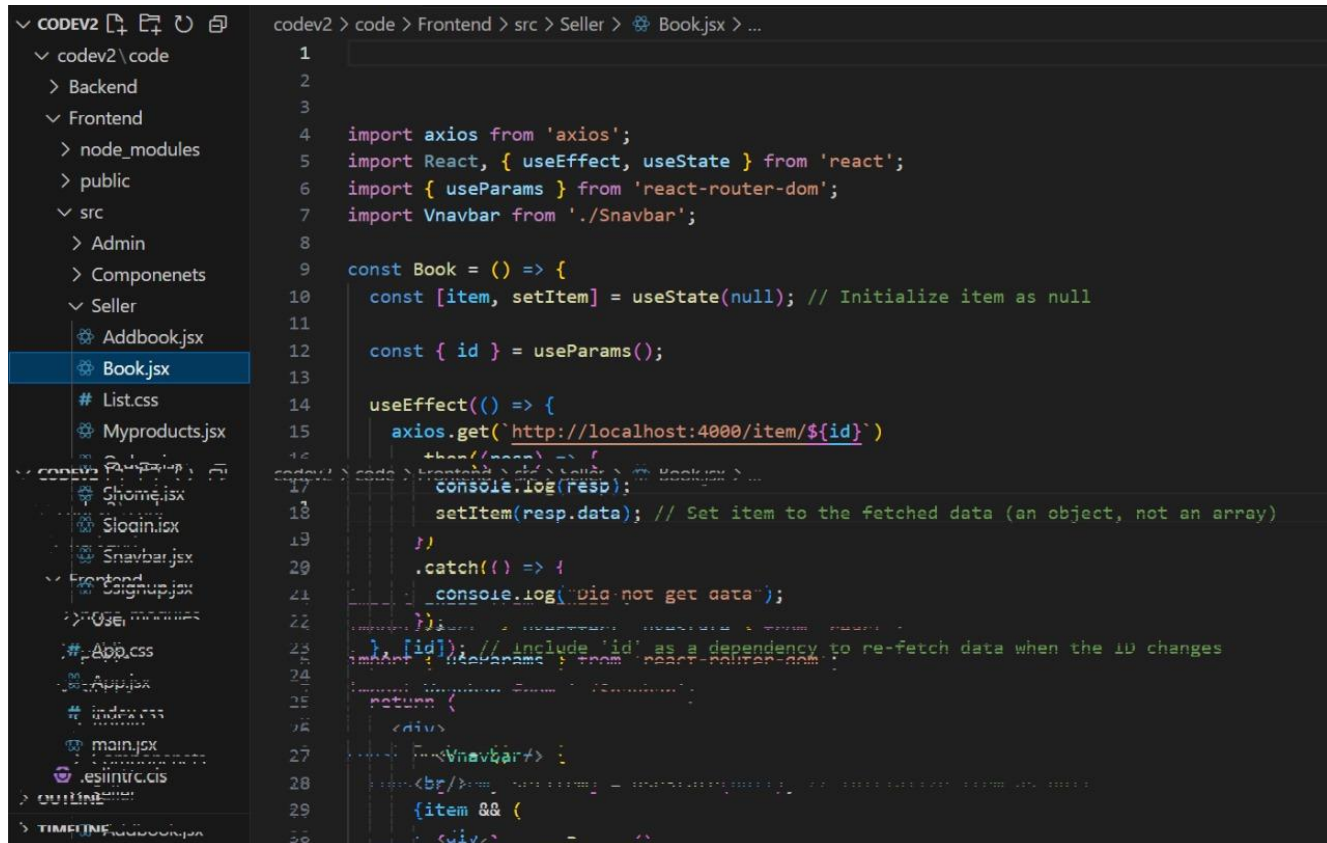
Add Book:

```
CODEV2 > code > Frontend > src > Seller > Addbook.jsx > ...
1  import React, { useState } from 'react';
2  import axios from 'axios';
3  import { useNavigate } from 'react-router-dom';
4  import Snavbar from './Snavbar';
5
6  function Addbook() {
7    const [formData, setFormData] = useState({
8      description: '',
9      title: '',
10     author: '',
11     genre: '',
12     price: '',
13     itemImage: null
14   });
15   const [loading, setLoading] = useState(false);
16
17   const navigate = useNavigate();
18   const user = JSON.parse(localStorage.getItem('user'));
19
20   const handleChange = (e) => {
21     if (e.target.name === 'itemImage') {
22       setFormData({ ...formData, [e.target.name]: e.target.files[0] });
23     } else {
24       const { name, value } = e.target;
25       setFormData({ ...formData, [name]: value });
26     }
27   };
28
29   const handleSubmit = async (e) => {
30     e.preventDefault();
```

My Orders:

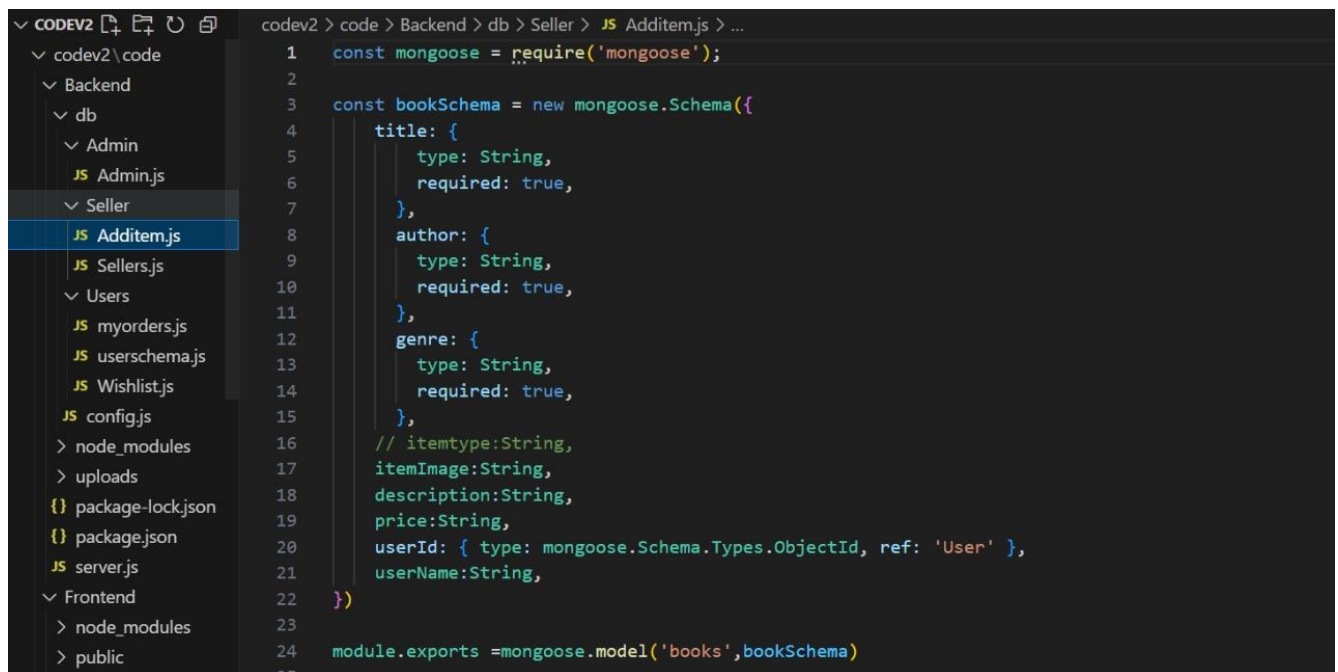
```
CODEV2 > code > Frontend > src > Seller > Orders.jsx > Orders > calculateStatus
1  import React, { useState, useEffect } from 'react';
2  import axios from 'axios';
3  import { useNavigate } from 'react-router-dom';
4  import Snavbar from './Snavbar';
5
6  function Orders() {
7    const [orders, setOrders] = useState([]);
8    const navigate = useNavigate();
9
10   useEffect(() => {
11     // Fetch items data
12     const user = JSON.parse(localStorage.getItem('user'));
13     console.log(user);
14     if (user) {
15       axios.get(`http://localhost:4000/getsellerorders/${user.id}`)
16         .then((response) => {
17           setOrders(response.data);
18         })
19         .catch((error) => {
20           console.error('Error fetching orders: ', error);
21         });
22     }
23   }, []);
24
25   // Function to calculate the status based on the delivery date
26   const calculateStatus = (Delivery) => {
27     const currentDate = new Date();
28     const formattedDeliveryDate = new Date(Delivery);
29
30     if (formattedDeliveryDate >= currentDate) {
```

Book:



```
codev2 > code > Frontend > src > Seller > Book.jsx > ...
1
2
3
4 import axios from 'axios';
5 import React, { useEffect, useState } from 'react';
6 import { useParams } from 'react-router-dom';
7 import Vnavbar from './Snavbar';
8
9 const Book = () => {
10   const [item, setItem] = useState(null); // Initialize item as null
11
12   const { id } = useParams();
13
14   useEffect(() => {
15     axios.get('http://localhost:4000/item/${id}')
16       .then((resp) => {
17         console.log(resp);
18         setItem(resp.data); // Set item to the fetched data (an object, not an array)
19       })
20       .catch(() => {
21         console.log("Did not get data");
22       });
23     // Include 'id' as a dependency to re-fetch data when the ID changes
24     // import { useParams } from 'react-router-dom';
25     return (
26       <div>
27         <Vnavbar />
28         <br />
29         {item && (
30           <div>
```

Add Item:



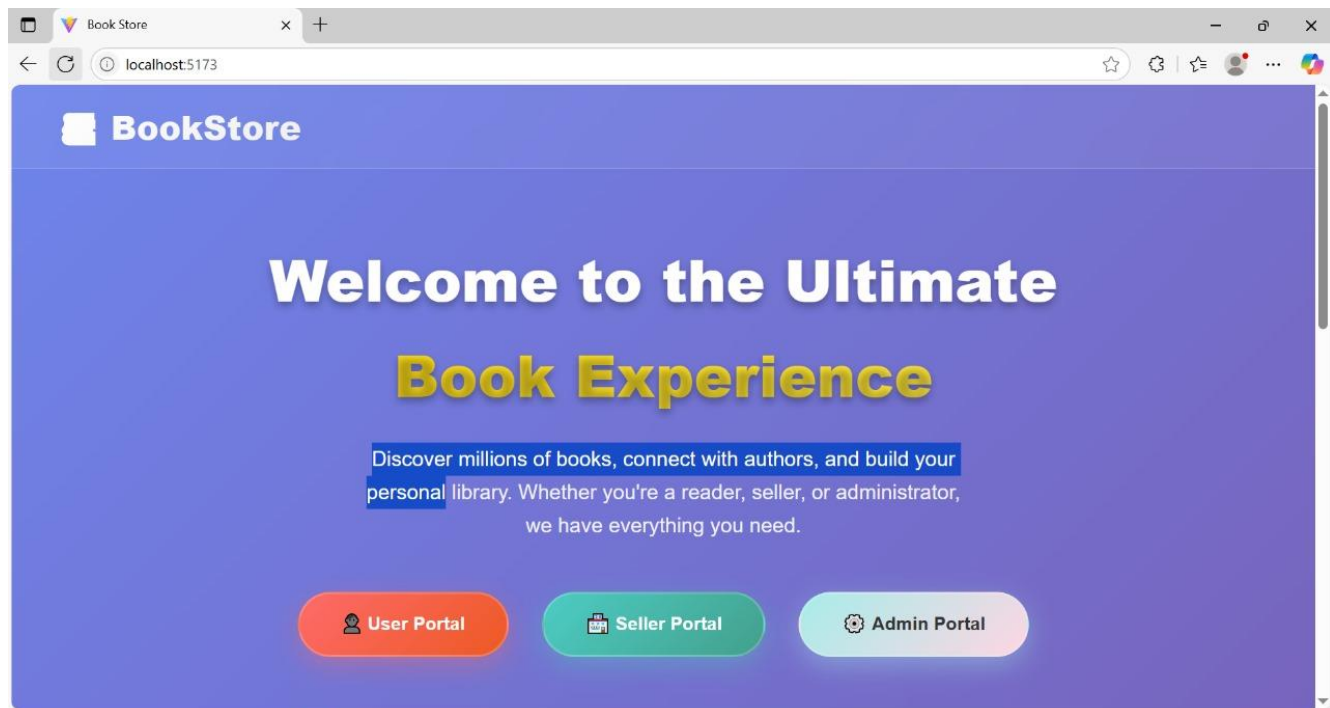
```
codev2 > code > Backend > db > Seller > JS Additem.js > ...
1 const mongoose = require('mongoose');
2
3 const bookSchema = new mongoose.Schema({
4   title: {
5     type: String,
6     required: true,
7   },
8   author: {
9     type: String,
10    required: true,
11  },
12  genre: {
13    type: String,
14    required: true,
15  },
16  // itemType:String,
17  itemImage:String,
18  description:String,
19  price:String,
20  userId: { type: mongoose.Schema.Types.ObjectId, ref: 'User' },
21  userName:String,
22 })
23
24 module.exports =mongoose.model('books',bookSchema)
25
```

My orders:

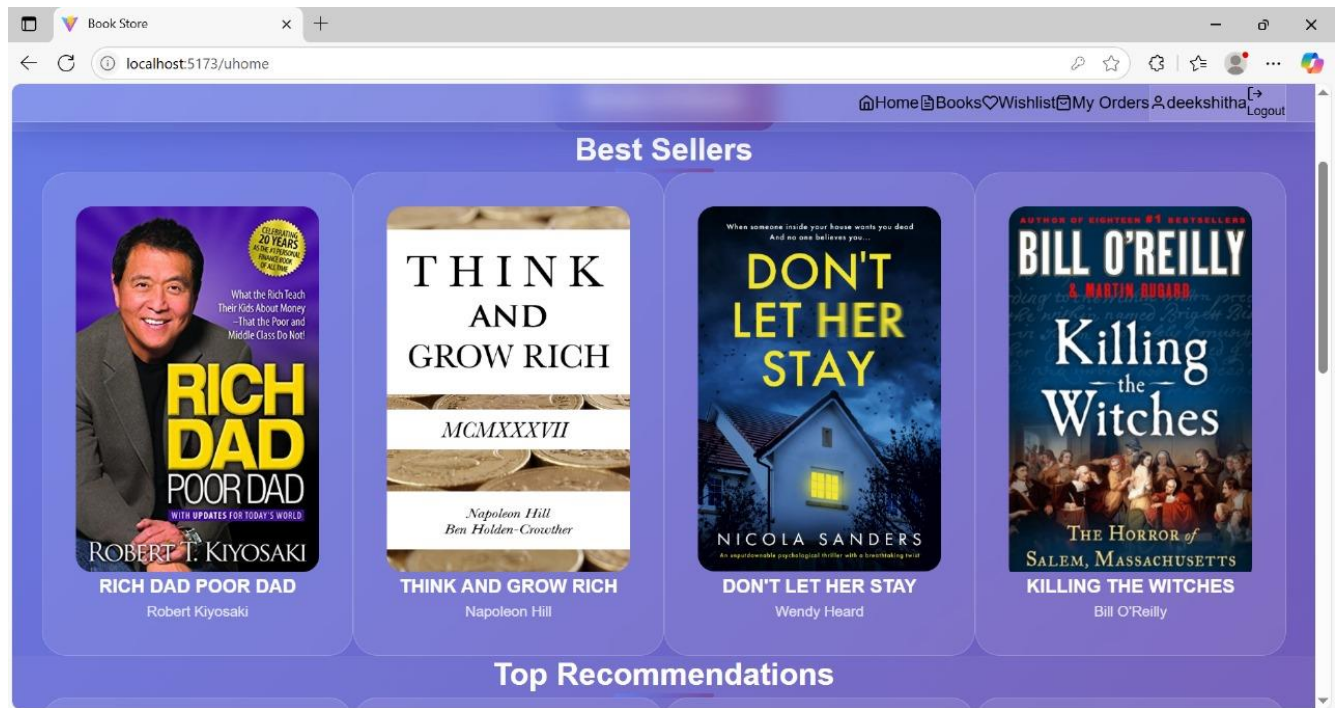
```
codev2 > code > Backend > db > Users > JS myorders.js > ...
1  const mongoose = require('mongoose');
2
3  const bookschema = new mongoose.Schema({
4    flatno:String,
5    pincode:String,
6    city:String,
7    state:String,
8    totalamount:String,
9    seller:String,
10   sellerId:String,
11   booktitle:String,
12   bookauthor:String,
13   bookgenre:String,
14   itemImage:String,
15   description:String,
16   userId: { type: mongoose.Schema.Types.ObjectId, ref: 'User' },
17   userName:String,
18   BookingDate: {
19     type: String, // Store dates as strings
20     default: () => new Date().toLocaleDateString('hi-IN') // Set the default value to
21   },
22   Delivery: {
23     type: String, // Store dates as strings
24     default: () => {
25       // Set the default value to the current date + 7 days in "MM/DD/YYYY" format
26       const currentDate = new Date();
27       currentDate.setDate(currentDate.getDate() + 7); // Add 7 days
28       const day = currentDate.getDate();
29       const month = currentDate.getMonth() + 1; // Month is zero-based, so add 1
30       const year = currentDate.getFullYear();
```

Demo UI images:

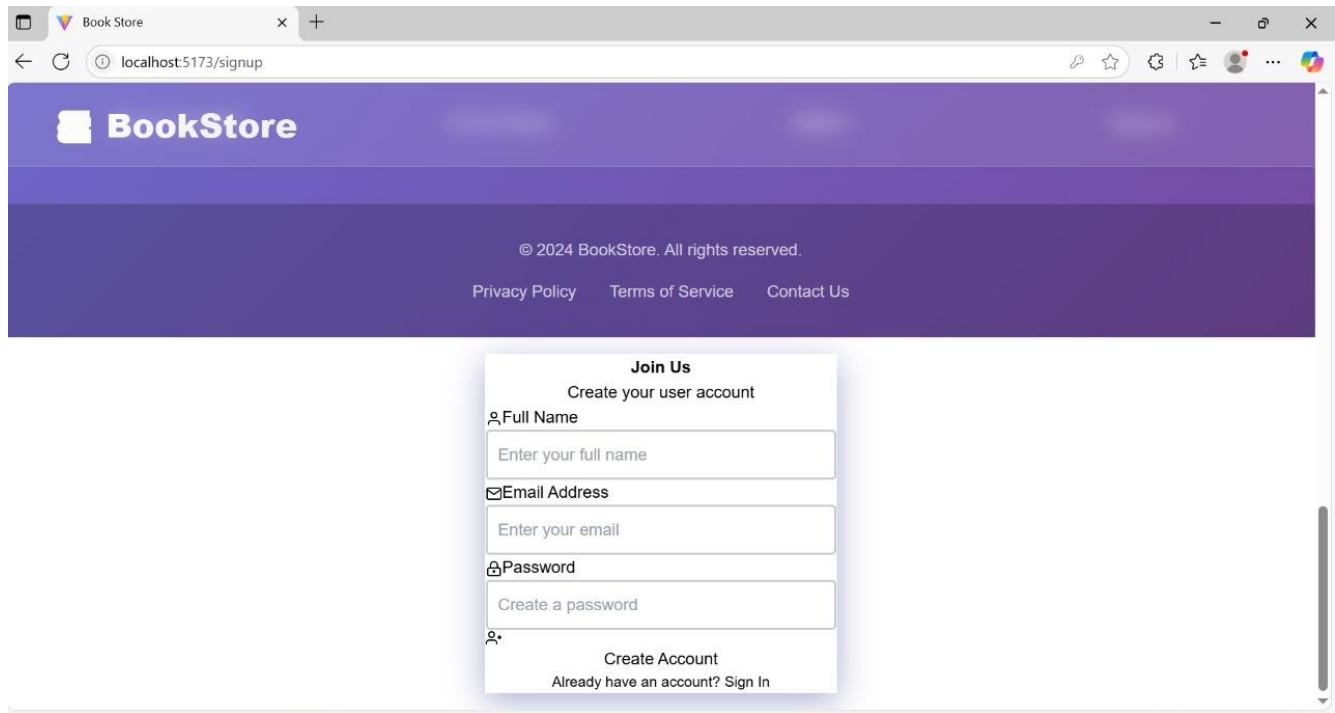
Landing page

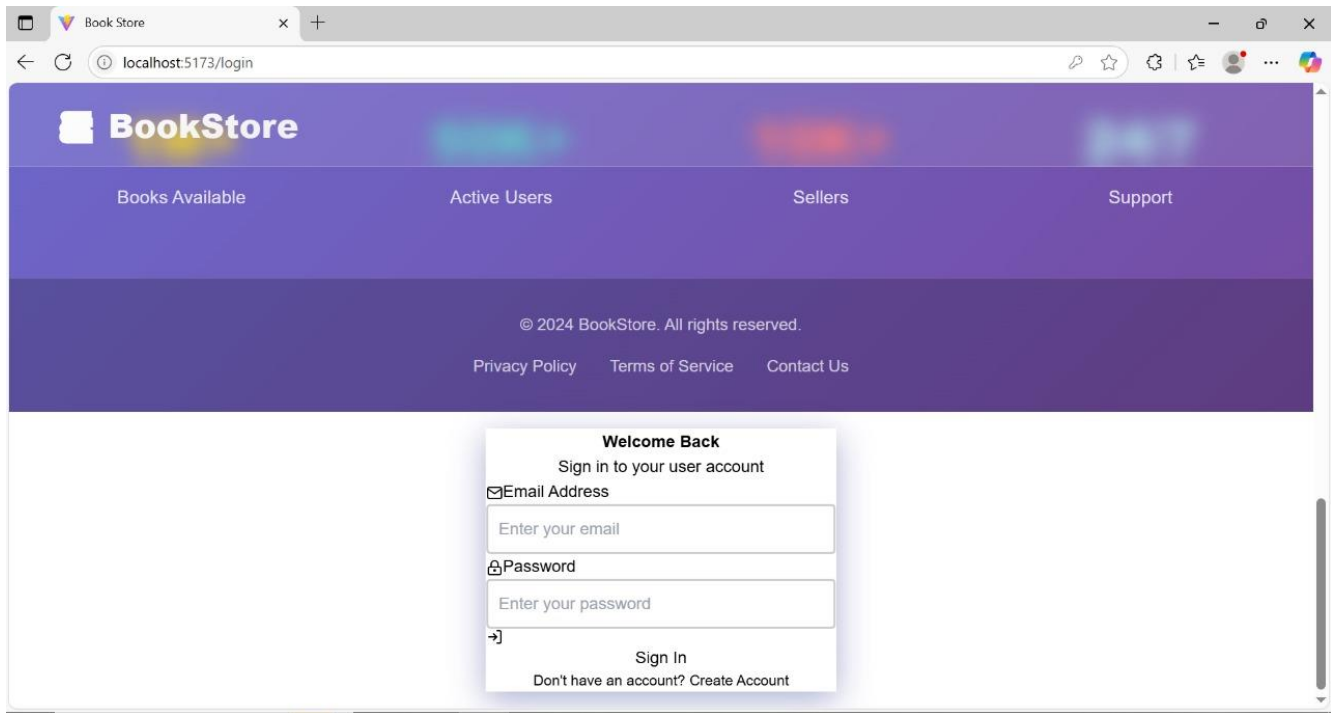


books

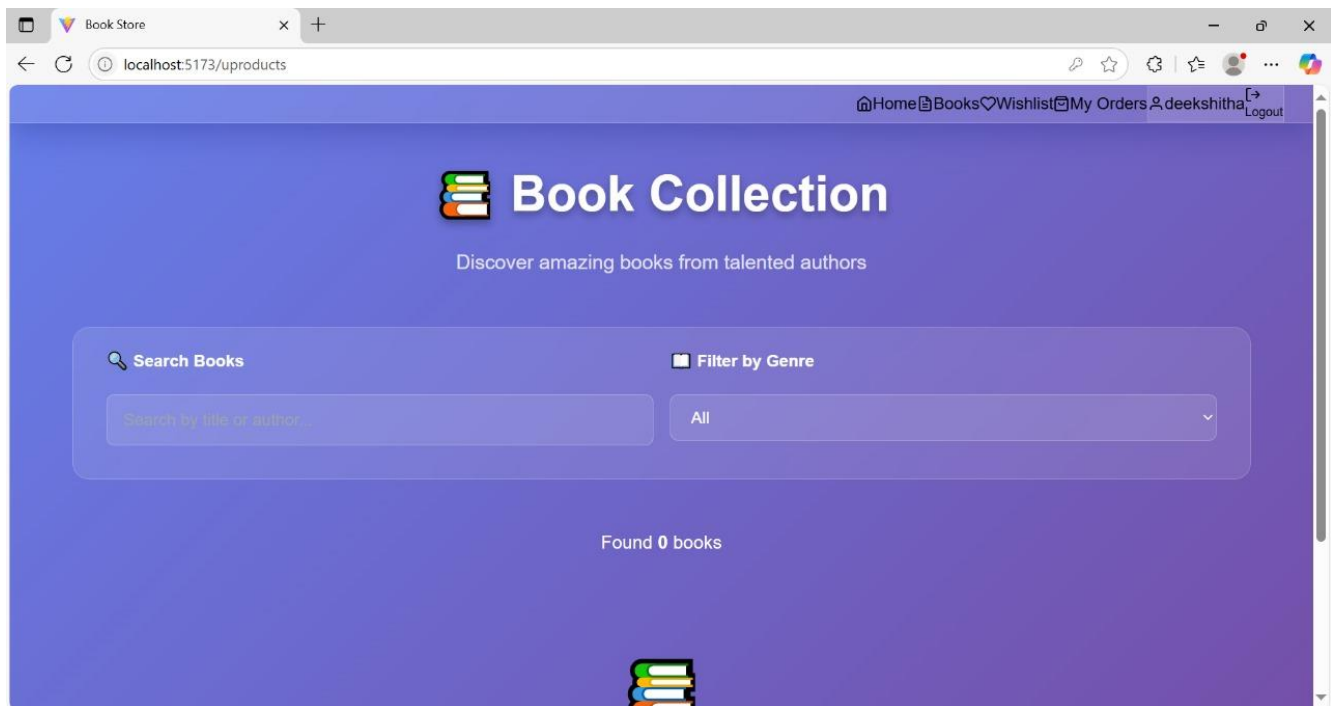


Authentication

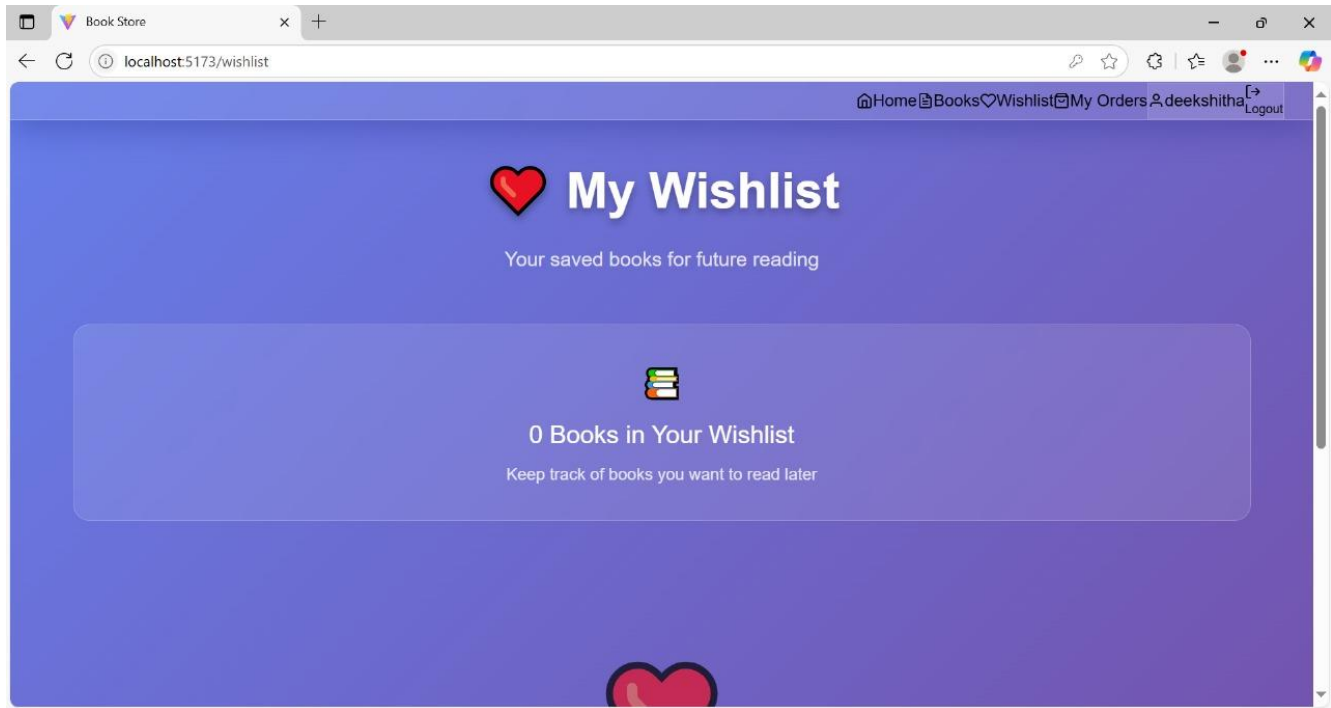




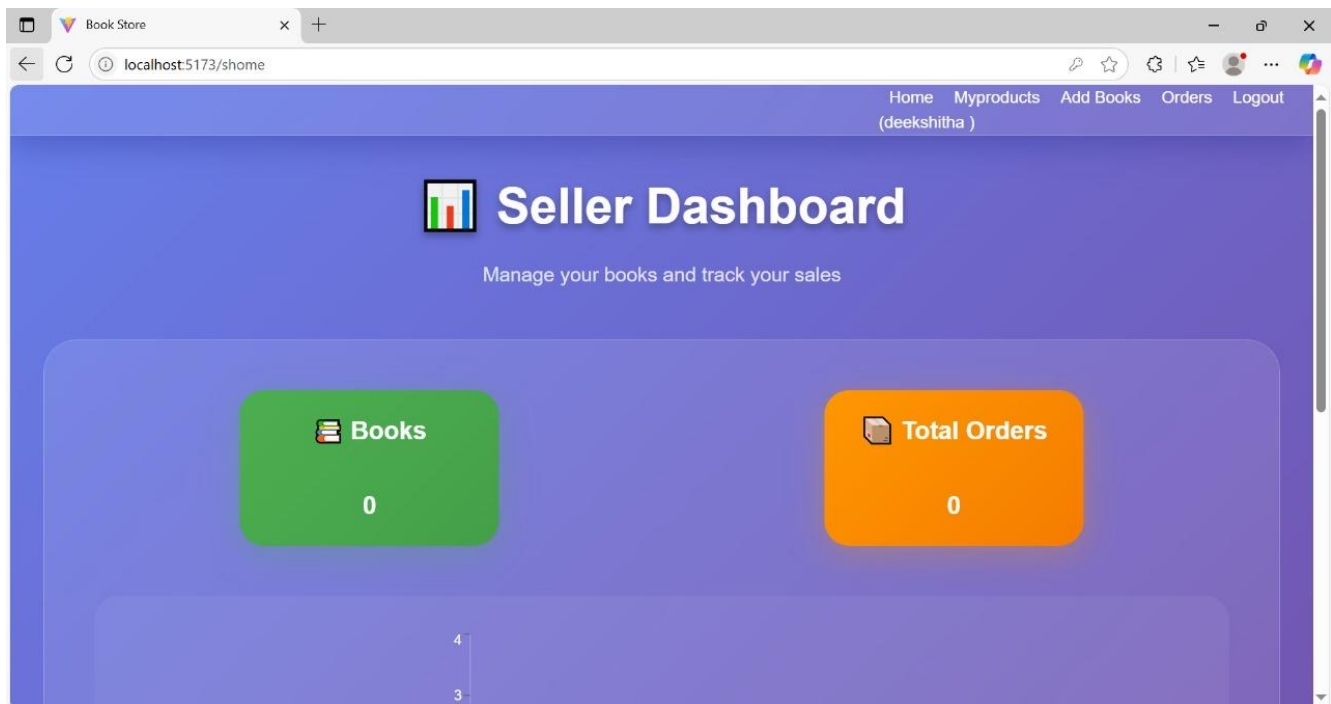
Book Collections:



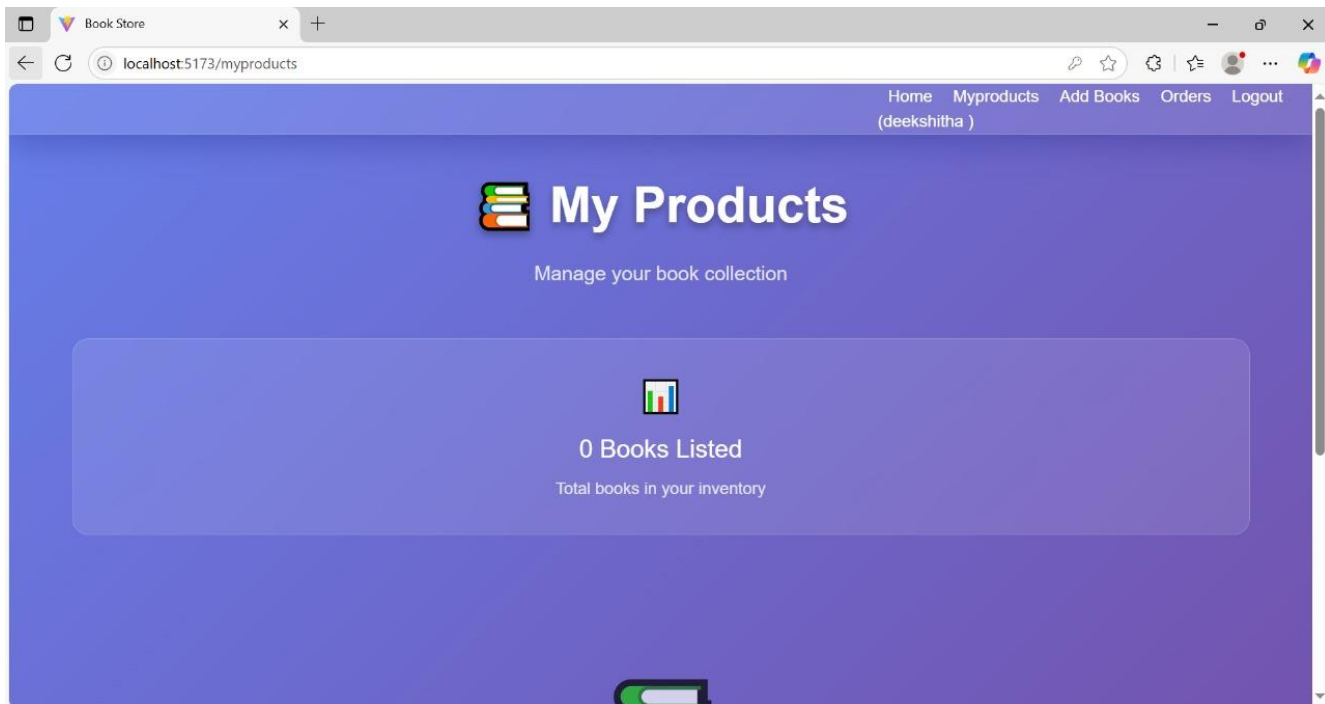
Mywishlist:



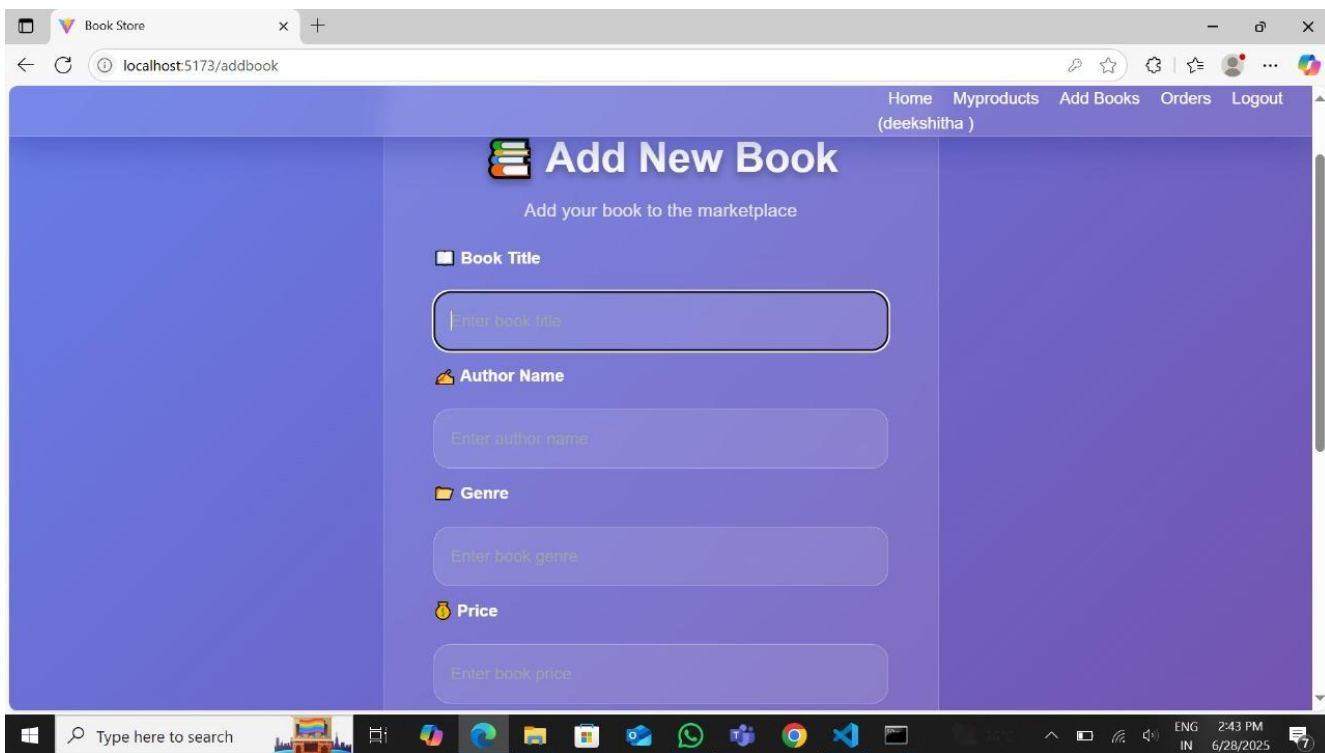
Seller dashboard



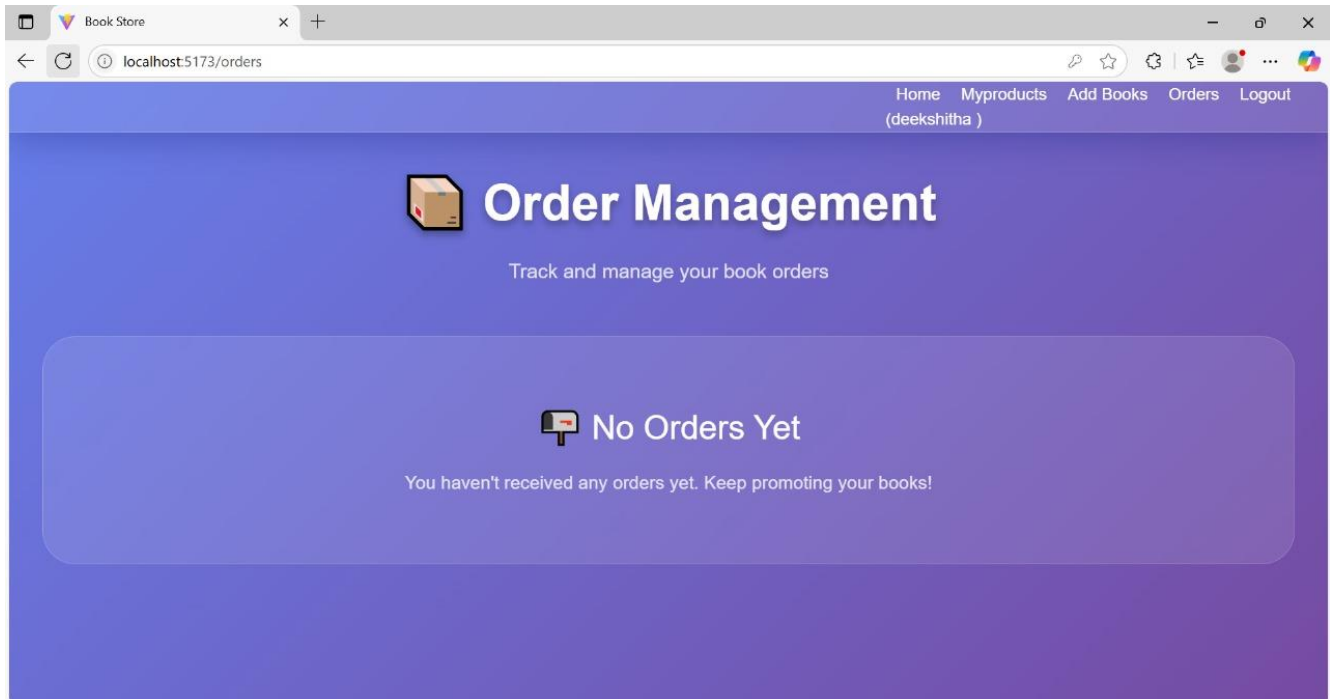
My Projects:



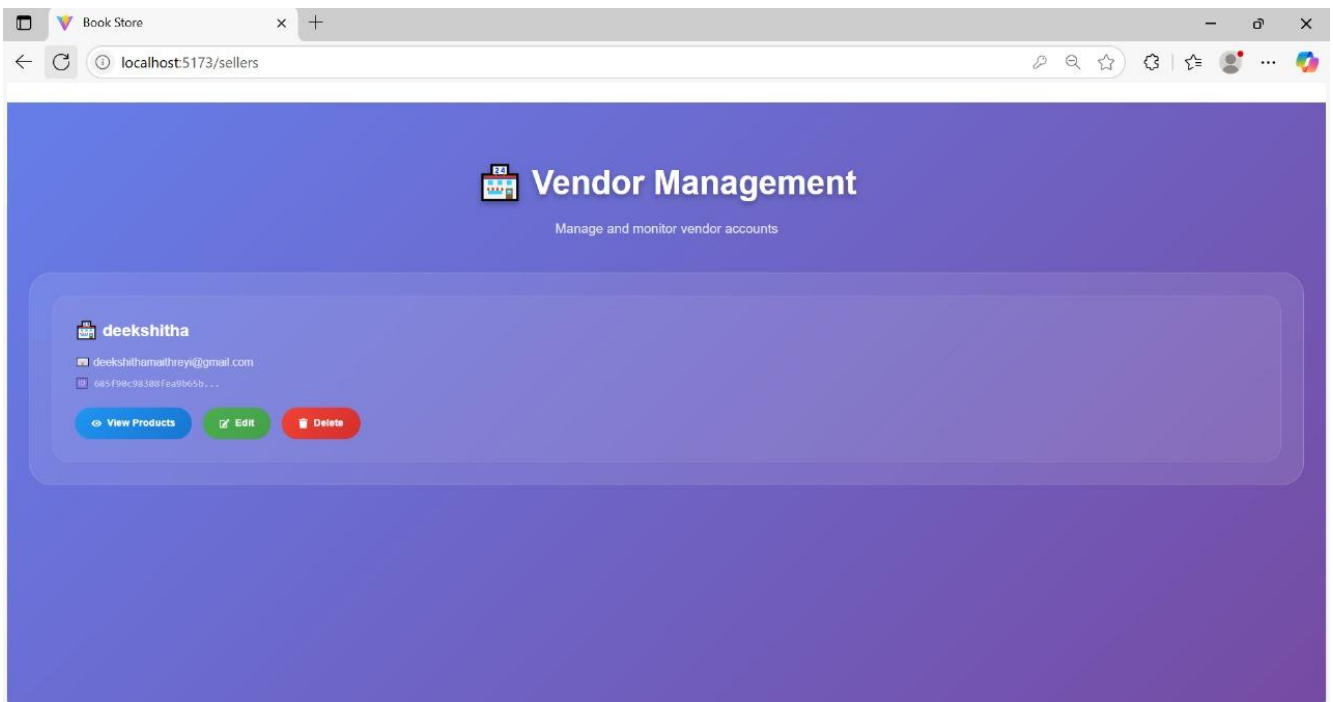
Add Books:



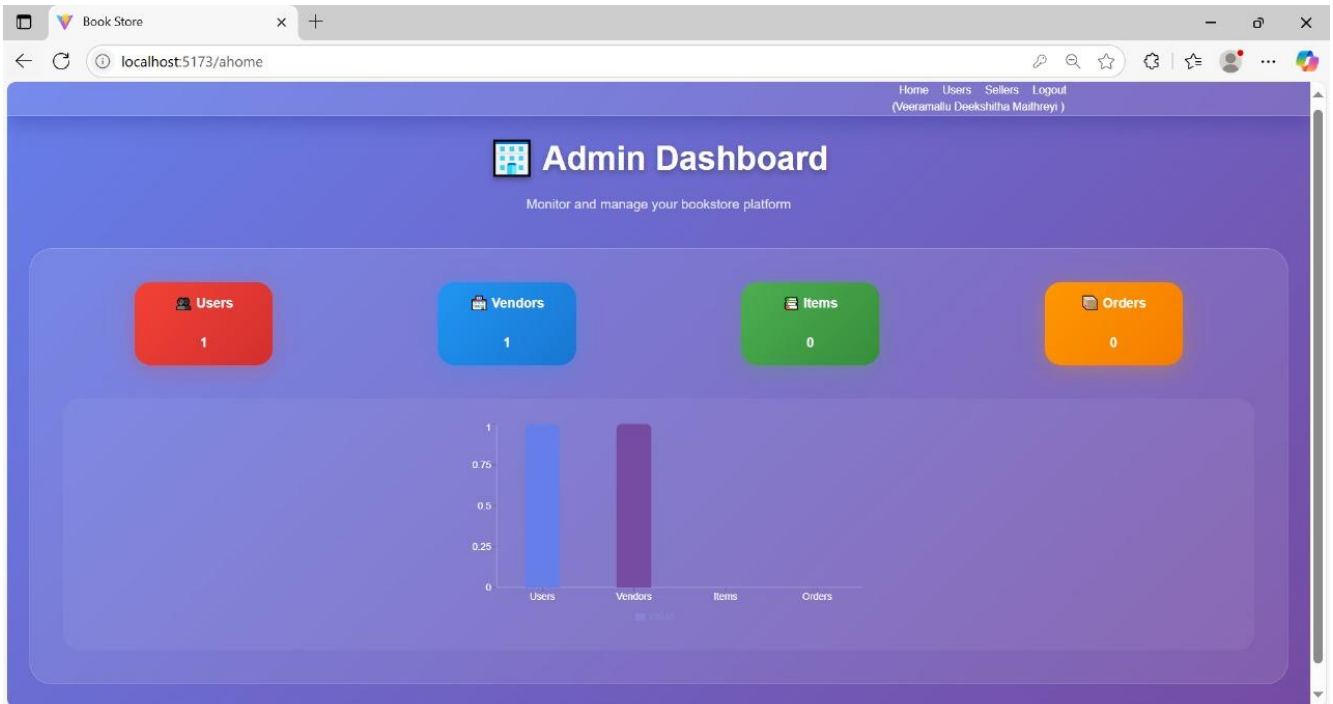
Order Management:



Vender Management:



Admin Dashboard:



User Management:

The User Management page is displayed in a web browser at `localhost:5173/users`. The user is logged in as Veeramallu Deekshitha Maithtreyi. The page features a header with navigation links: Home, Users, Sellers, and Logout. The main content area shows a user profile for 'deekshitha' with the email 'deekshithamaithtreyi@gmail.com' and a unique ID '685d4ee7f93ee8b5ecdd...'. Below the profile information are three action buttons: View Orders, Edit, and Delete.

User Name	Email	ID	Actions
deekshitha	deekshithamaithtreyi@gmail.com	685d4ee7f93ee8b5ecdd...	View Orders Edit Delete

For any further doubts or help, please consider the drive,

<https://drive.google.com/drive/folders/13GfDZKAYzkzK9pwMStaaVUEgY3kNY9CO?usp=sharing>

The demo of the app is available at:

https://drive.google.com/file/d/1LXRrIHypSGso5S6fwyv3yYW7xmyQsm_/view?usp=sharing

TESTING

Manual testing done for all flows: register, login, cart, order, admin panel

Testing Scope

Features and Functionalities to be Tested:

- User registration and login
- Product browsing and search
- Cart management
- Order placement and order history
- Admin product/user/order management

User Stories/Requirements to be Tested:

- USN-1: User registration
- USN-2: Registration confirmation
- USN-3: User login
- USN-4: Product browsing/search
- USN-5: Cart and order placement
- USN-6: Admin management

KNOWN ISSUES

- book images might not appear if uploads folder is empty or missing
- Basic error messages need better UX design
- No support for password reset yet

FUTURE ENHANCEMENTS

- Integrate Stripe or Razorpay for payment gateway
- Allow book reviews and star ratings
- Enable email notifications on order status
- Multi-language support
- Add accessibility features and dark mode