

ONLINE BOOK REVIEW SYSTEM

GROUP NO. 3

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ABSTRACT :

- **Problem:** Buying a new book can be disappointing if it doesn't meet your expectations.
- **Solution:** A Book Review system helps with this by:
 - Allowing the admin to add, delete, and edit books.
 - Keeping track of user reviews and ratings.
 - Providing user registration and login.
 - Users can check reviews and ratings of books.
 - Users can also give their own reviews and ratings for books.

INTRODUCTION

The “ENZ BOOK CLUB” objective is to design Book Review system, and to develop a customer web-based Review system.

Features:

- **Users can provide ratings and reviews based on their experiences.**
- **Book reviews validate a book's worth and identify its audience.**
- **Peer reviews encourage others to read the same book.**

OBJECTIVE :

- **This system objective is to design Book Review system, and to develop a customer web-based Review system.**
- **Readers can give ratings and reviews.**
- **Admin can identify reader interests and publish requested books.**
- **Saves time, provides insights, and fosters reader-book connections.**

TECHNOLOGY USED :

- **Spring boot**
- **TypeScript**
- **Java**
- **MySQL**
- **Angular**
- **HTML**
- **CSS**
- **JPA**
- **Postman**

TOOLS USED

- **Server – Apache Tomcat 9**
- **Database – MySQL**
- **MySQL Connector**
- **Node JS Version 18.17.1**
- **Postman**
- **Angular Version 16.2.1**
- **JDK**
- **Eclipse IDE or Spring Tool Suite**

WHAT IS SPRING BOOT?

Spring Boot is a tool that makes developing web application and microservices with Spring Framework faster and easier.

Benefits of Spring Boot:

- Ideal for Java developers.
- Enables stand-alone and production-ready Spring apps.
- Minimal configuration required.
- No need for a complex Spring setup



WHAT IS ANGULAR?

Angular is an open-source, JavaScript framework written in TypeScript. Its primary purpose is to develop single-page applications. As a framework, Angular has clear advantages while also providing a standard structure for developers to work with.

Angular Overview:

- Platform and framework for single-page client apps.
- Uses HTML and TypeScript.
- Core functionality in TypeScript libraries.
- Relies on Angular components within NgModules for application architecture.



WHY DO WE NEED A FRAMEWORK?

Benefits of Frameworks:

- Enhance web development efficiency and performance.
- Provide a consistent code structure.
- Save time by offering extra features without extra coding effort.



HTML & CSS

- **HTML: Defines page structure.**
- **CSS: is used to style an HTML document and describes how HTML elements should be displayed.**
- **Together with graphics and scripting, they form the basis of web development.**
- **HTML for page structure, CSS for presentation including colors, layout, and fonts.**



MYSQL

- Popular open-source database management system.
- Supported by Oracle.
- Known for speed, scalability, and user-friendliness.
- Utilizes Client-Server Architecture for user access through a central server.

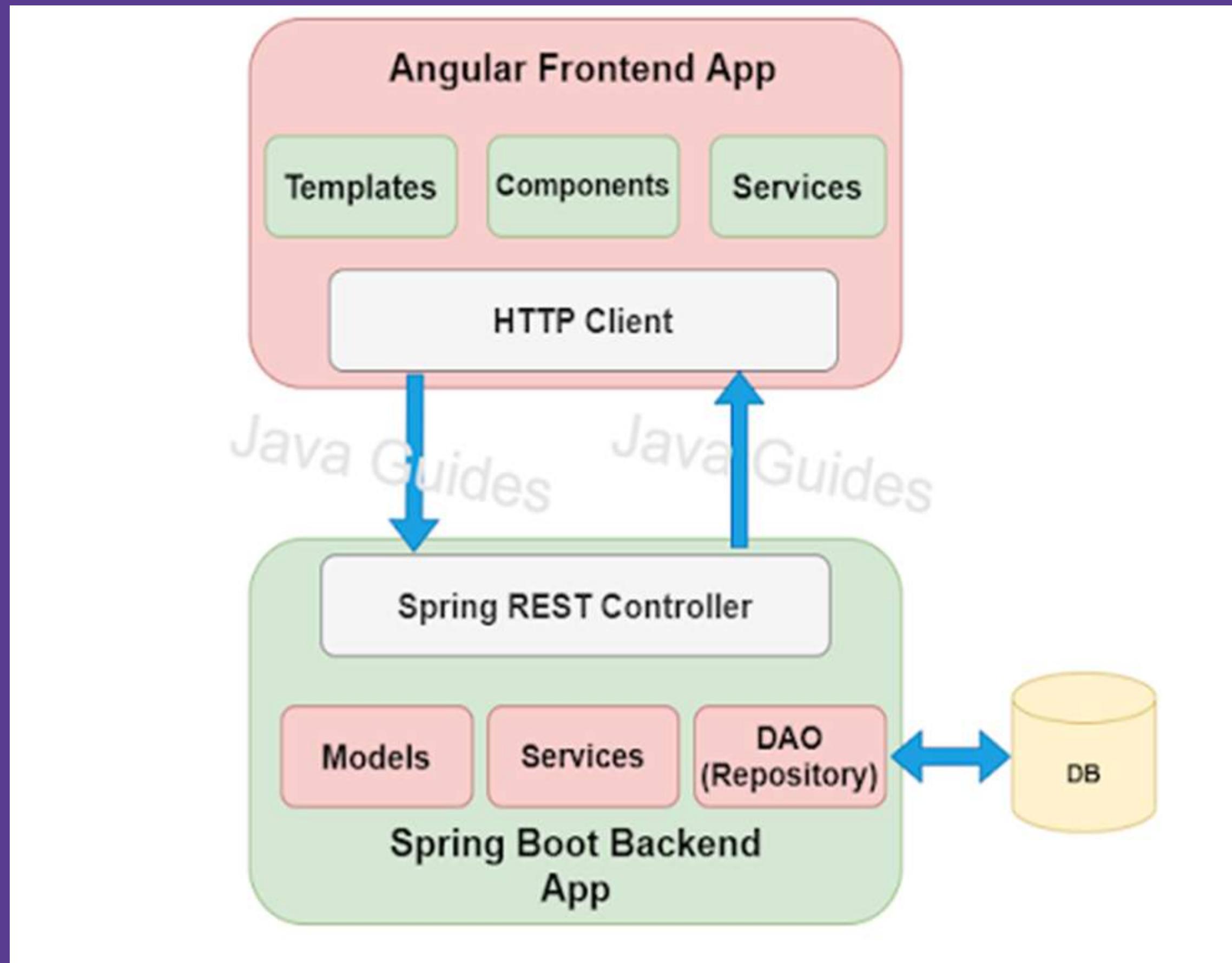


POSTMAN

- **Comprehensive API development platform.**
- **Supports the entire API lifecycle.**
- **An API client for creating, sharing, testing, and documenting APIs.**
- **Features a user-friendly and powerful toolset.**
- **Available on MacOS, Linux, and Windows through native apps.**



PROJECT ARCHITECTURE



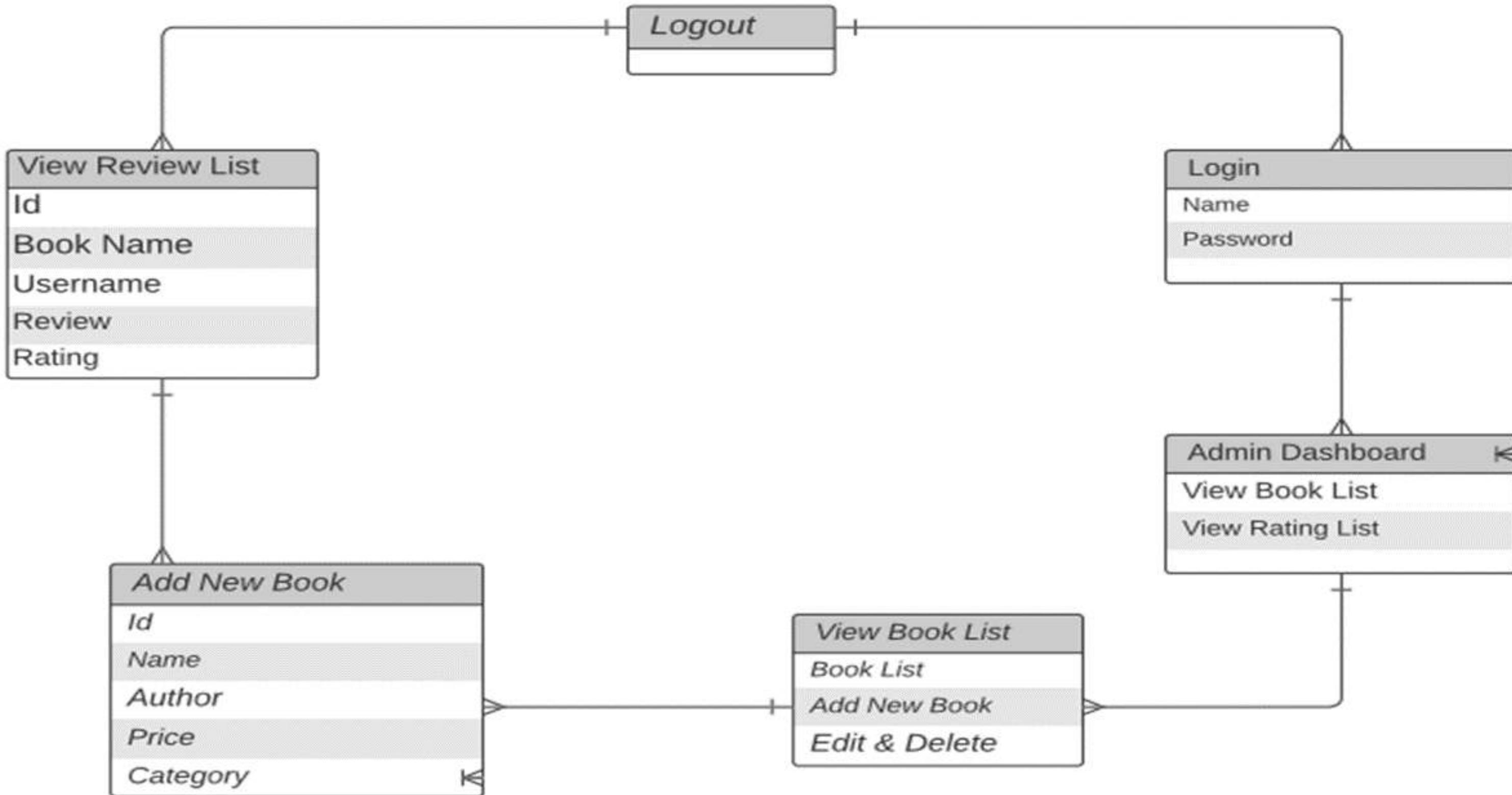
MODULES

The system comprises of 2 major modules with their sub-modules as follows:

1. Admin :

- a. Lander Page : Main page and has 2 buttons for admin login and User login**
- b. Admin Login: Admin can login by using username and password**
- c. Dashboard: Admin dashboard has two buttons for Booklist and Rating list**
- d. Admin Book List : This list contains all the books with edit, enable and delete button**
- e. Rating List: This list has the rating given to the books by the readers**
- f. Logout : This is used to logout when all work is done**

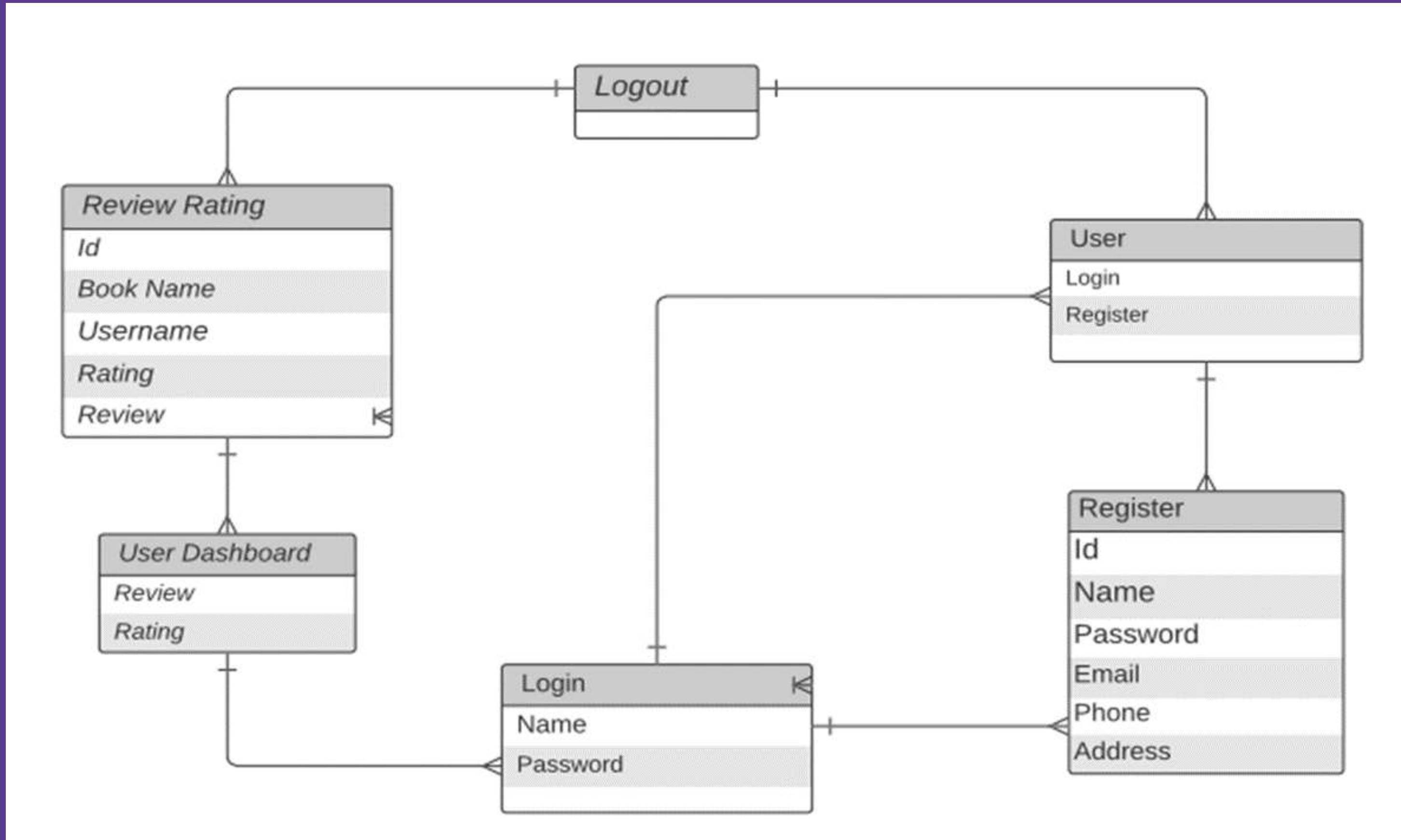
ER DIAGRAM FOR ADMIN



2. USER :

- a. User Login:** User can login using email-id and password
- b. User Registration:** User can register themselves
- c. User Dashboard :** User dashboard has 2 buttons for booklist and user profile
- d. Booklist :**Book list has all the books with a review button
- e. Review :** This gives details of the book and you can give rating and review
- f. User Profile:** This gives details of the user who has logged in
- g. Update Profile:** Update profile is used to update details related to user

ER DIAGRAM FOR USER



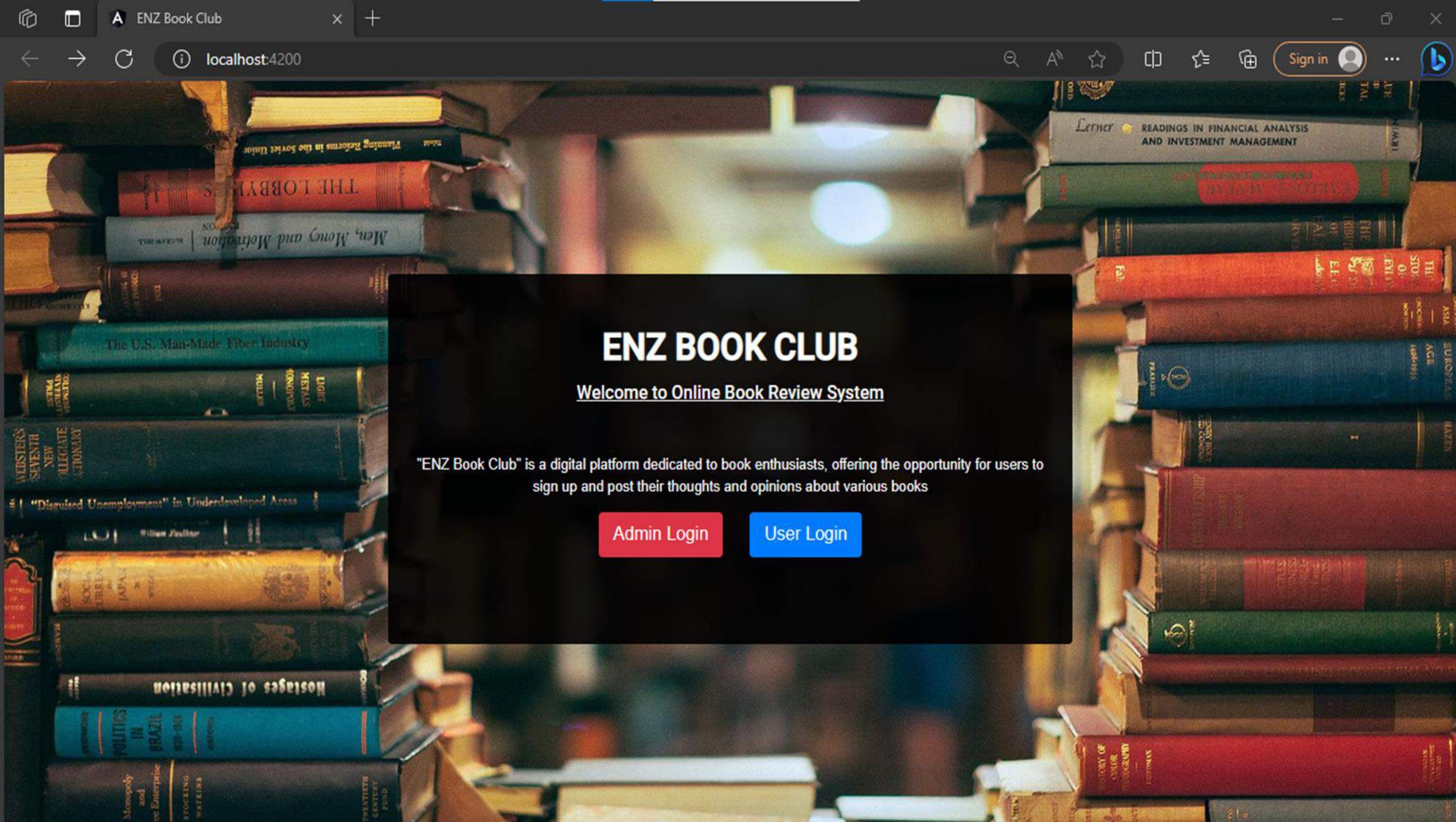
LANDER PAGE

- The Lander page is the main page.
- The Lander page has 2 buttons that is admin

Admin login and user login :

- Admin Login takes us to admin login page.
- User Login takes us to user login page.





Sign in



ADMIN LOGIN

- In the admin login page the admin can login using username and password which is already saved.**
- If you type wrong password it will give invalid username or password.**



ADMIN LOGIN

Username

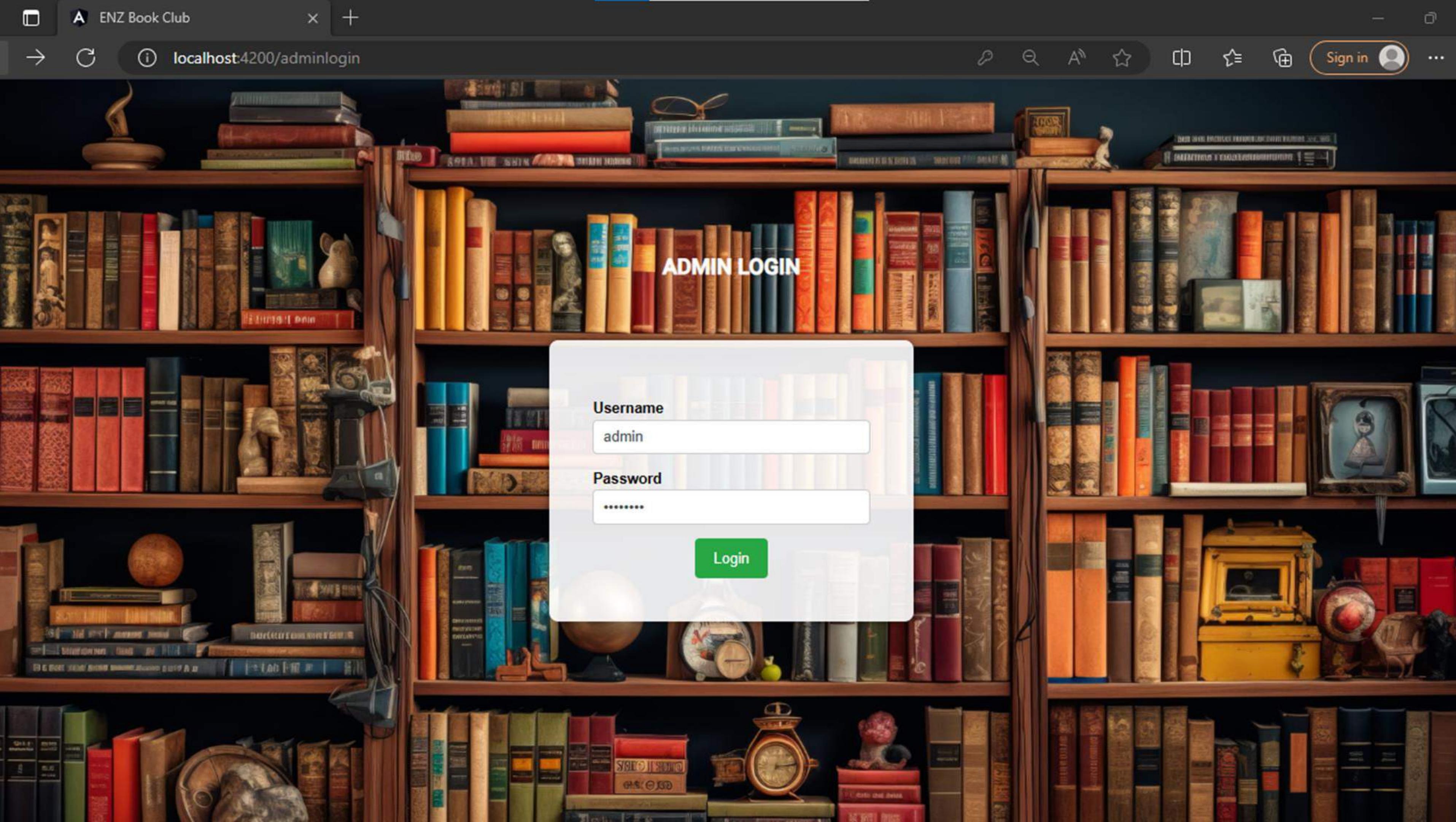
ad

Password

..

Login

Invalid Username or Password



ADMIN LOGIN

Username

admin

Password

Login

ADMIN DASHBOARD

Admin Dashboard page consist of two buttons:

- **Display Book list :**

It will display the book list that will contain add new book, edit ,delete and disable/enable functionality.

- **Display Rating list :**

It will display the rating and review list that contains book, user, ratings and comments given by the user.





ENZ Book Club

Hello, Admin!

"ENZ Book Club" functions as a web platform dedicated to book enthusiasts, enabling them to both register and exchange their thoughts and evaluations regarding a curated collection of books.

Kindly show your support for the books worth reading by liking, commenting on, and sharing them

[Display Booklist](#)

[Display Ratinglist](#)

ADMIN ADD BOOK

- **Add Functionality:-**
- **Purpose:** To add the book details.
- **Endpoint:** It is accessed through `/add/`
- **Process:**
- When we click on add new book button it navigates to admin add book page.
- Admin can add author, name , price and category by clicking on add book button.
- Admin can view the added book data in the list.
- **Importance:** Adding book details functionality allow the admin to efficiently manage the book catalogue and it improves the user experience by providing a user friendly interface.

Book List

[Add new book](#)

Search by Title, Author , Category

ID	Author	Name	Description	Price	Action
1	Ritik Asthana	springbootciid	Computer Science	1200	Delete Edit Disable
2	Sweety Sharma	devops-automation	Computer Science	189	Delete Edit Disable
3	Mahindra Singh	Automata	Engineering	2300	Delete Edit Disable

Author

Ashish Singh

Book Name

Python

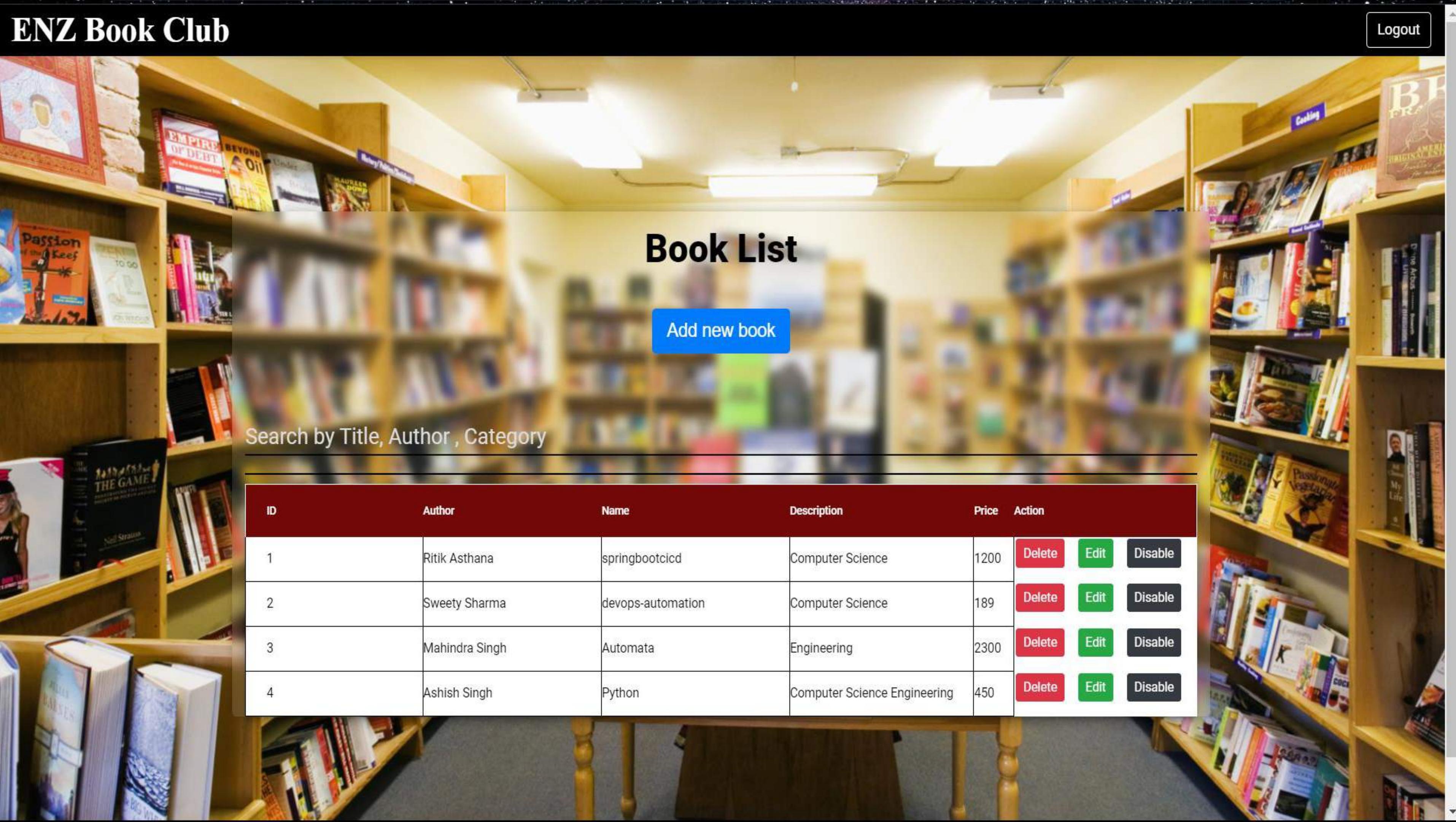
Price

450

Category

Computer Science Engineering

Add book



Book List

[Add new book](#)

Search by Title, Author , Category

ID	Author	Name	Description	Price	Action
1	Ritik Asthana	springbootciid	Computer Science	1200	Delete Edit Disable
2	Sweety Sharma	devops-automation	Computer Science	189	Delete Edit Disable
3	Mahindra Singh	Automata	Engineering	2300	Delete Edit Disable
4	Ashish Singh	Python	Computer Science Engineering	450	Delete Edit Disable

Home Workspaces API Network Explore Search Postman Invite Upgrade

Overview POST http://localhost:8082/ No Environment

http://localhost:8082/api/product/add

POST http://localhost:8082/api/product/add Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1
2
3   "name": "Life of jesus",
4   "author": "Ramesh verma",
5   "price": "800",
6   "category": "Religious"
7
8 }
```

Body Cookies Headers (8) Test Results Status: 200 OK Time: 419 ms Size: 897 B Save as Example

Pretty Raw Preview Visualize JSON

```
42   category: "Computer Science"
43 },
44 {
45   "id": 7,
46   "name": "Life of jesus",
47   "author": "Ramesh verma",
48   "price": 800,
49   "category": "Religious"
50 }
51 }
```

Online Find and replace Console Postman Runner Start Proxy Cookies Trash

ADMIN DELETE BOOK

Delete Functionality:-

- **Purpose:** To delete the book details.
- **Endpoint:** It is accessed through `/api/product/{id}`
- **Process:** When the delete button is pressed, a pop-up window will appear at the top, seeking confirmation for the deletion action. If the "Yes" option is chosen, it results in the removal of the specific record's data.

Importance: If the data can become outdated or irrelevant delete button allow user to remove such data. It also provides a mechanism to rectify these mistakes and maintain data accuracy.



Logout

ENZ Book Club

localhost:4200 says

Do you want to delete the data??

OK**Cancel**

Book List

Add new book

Search by Title, Author , Category

ID	Author	Name	Description	Price	Action
1	J. K. Rowling	Harry Potter	Fantasy	299	Delete Edit Disable
2	Stephen King	The Shining	Horror	399	Delete Edit Disable
3	Richard Powers	The Ovenstory	Action	300	Delete Edit Disable
4	Vasdev Mohi	Cheque Book	Thriller	600	Delete Edit Disable
5	R. Giridharan	Right Under Our Nose	Comedy	560	Delete Edit Disable
6	Sweety Sharma	devops -automation	Computer Science	189	Delete Edit Disable



Book List

[Add new book](#)

Search by Title, Author , Category

ID	Author	Name	Description	Price	Action
1	J. K. Rowling	Harry Potter	Fantasy	299	Delete Edit Disable
2	Stephen King	The Shining	Horror	399	Delete Edit Disable
3	Richard Powers	The Ovenstory	Action	300	Delete Edit Disable
4	Vasdev Mohi	Cheque Book	Thriller	600	Delete Edit Disable
5	R. Giridharan	Right Under Our Nose	Comedy	560	Delete Edit Disable
7	Ramesh verma	Life of jesus	Religious	800	Delete Edit Disable

☰ ← → Home Workspaces API Network Explore

Search Postman

Invite  Settings  Notifications  Upgrade

No Environment

Overview  DEL http://localhost:8082/a 

+

Collections  Overview  http://localhost:8082/api/product/4  Save   

Environments  DELETE  http://localhost:8082/api/product/4  Send 

History  Params Authorization Headers (8)  Body  Pre-request Script Tests Settings Cookies 

none form-data x-www-form-urlencoded raw binary GraphQL JSON  Beautify 

1
2
3 " name ":" Life of jesus ",
4 " author ":" Ramesh verma ",
5 " price ":" 800 ",
6 " category ":" Religious "
7
8

Body Cookies Headers (7) Test Results  Status: 200 OK Time: 477 ms Size: 212 B  Save as Example 

Pretty Raw Preview Visualize Text   

1

☰  Online Find and replace Console Postbot Runner Start Proxy Cookies Trash 

ADMIN EDIT & UPDATE BOOK

Edit Functionality:-

- **Purpose:** Modify the existing book details.
- **Endpoint:** It is accessed through `/edit/{id}`.
- **Process:** To retrieve and change book information.
- **Importance:** It ensures data accuracy.

Update Functionality:-

- **Purpose:** To keep book records up to date.
- **Endpoint:** Use `/update/{id}`.
- **Process:** To apply changes to book data.
- **Importance:** It is crucial for user satisfaction.



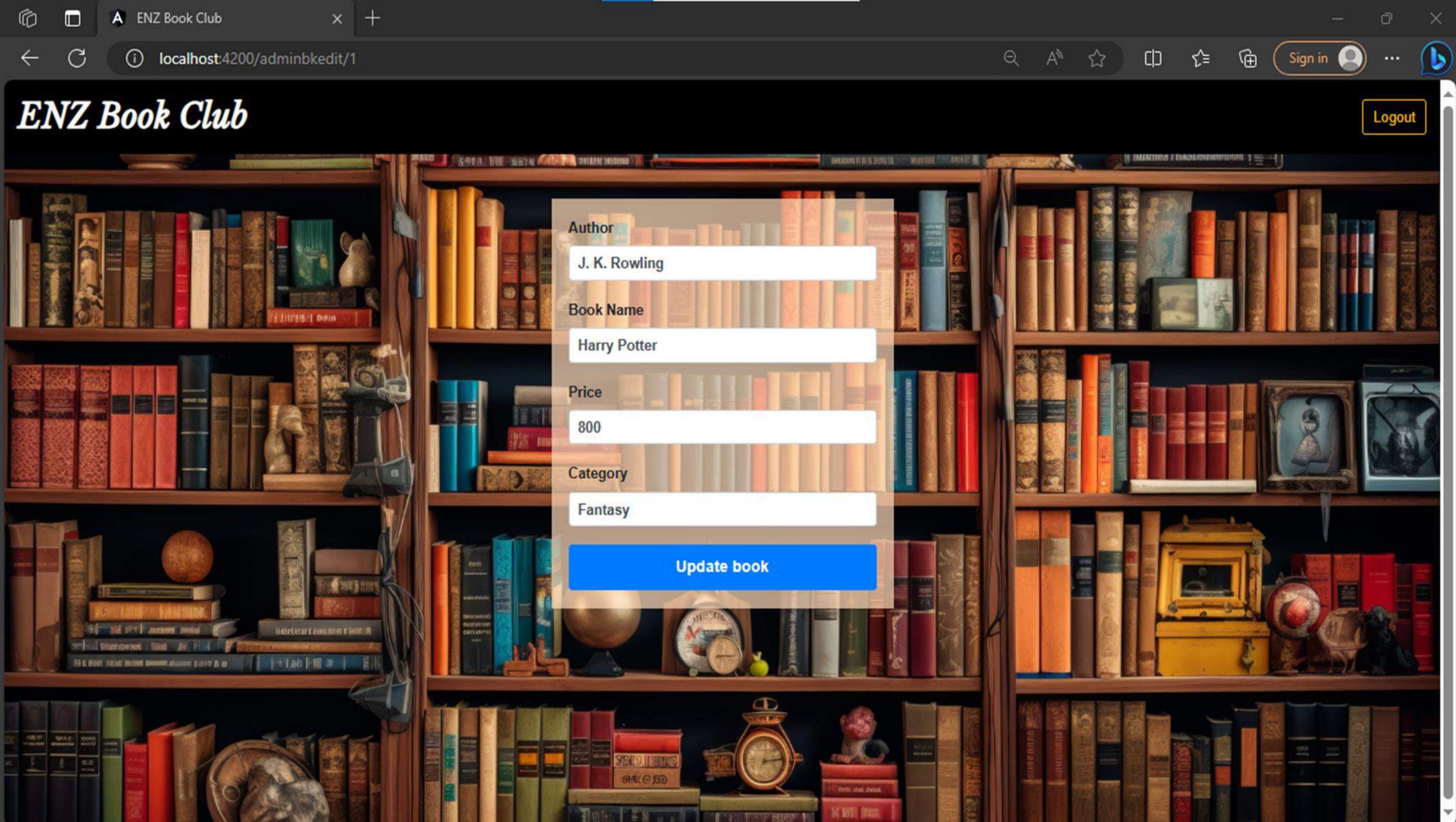
ENZ Book Club

Book List

[Add new book](#)

Search by Title, Author , Category

ID	Author	Name	Description	Price	Action
1	J. K. Rowling	Harry Potter	Fantasy	800	Delete Edit Disable
2	Stephen King	The Shining	Horror	399	Delete Edit Disable
3	Richard Powers	The Ovenstory	Action	300	Delete Edit Disable
4	Vasdev Mohi	Cheque Book	Thriller	600	Delete Edit Disable
5	R. Giridharan	Right Under Our Nose	Comedy	560	Delete Edit Disable
7	Ramesh verma	Life of jesus	Religious	800	Delete Edit Disable



ENZ Book Club

[Logout](#)

Author

J. K. Rowling

Book Name

Harry Potter

Price

800

Category

Fantasy

[Update book](#)

ENZ Book Club

Book List

[Add new book](#)

Search by Title, Author , Category

ID	Author	Name	Description	Price	Action
1	J. K. Rowling	Harry Potter	Fantasy	800	<button>Delete</button> <button>Edit</button> <button>Disable</button>
2	Stephen King	The Shining	Horror	399	<button>Delete</button> <button>Edit</button> <button>Disable</button>
3	Richard Powers	The Ovenstory	Action	300	<button>Delete</button> <button>Edit</button> <button>Disable</button>
4	Vasdev Mohi	Cheque Book	Thriller	600	<button>Delete</button> <button>Edit</button> <button>Disable</button>
5	R. Giridharan	Right Under Our Nose	Comedy	560	<button>Delete</button> <button>Edit</button> <button>Disable</button>
7	Ramesh verma	Life of jesus	Religious	800	<button>Delete</button> <button>Edit</button> <button>Disable</button>

Overview

PUT http://localhost:8082/z

+

...

No Environment



http://localhost:8082/api/product/update/5

Save

Edit

</>

PUT http://localhost:8082/api/product/update/5

Send



Params

Authorization

Headers (8)

Body

●

Pre-request Script

Tests

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Beautify

```
1
2
3   "name": "Life of Ram",
4   "author": "Ram verma",
5   "price": "600",
6   "category": "Religious"
7
8
```

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 23 ms Size: 338 B

Save as Example

Pretty

Raw

Preview

Visualize

JSON



□

Q

```
1
2   "id": 5,
3   "name": "Life of Ram",
4   "author": "Ram verma",
5   "price": 600,
6   "category": "Religious"
7
```



ENABLING & DISABLING FUNCTIONALITY

Enabling Books -

- Administrators can activate book records.**
- Enables access and functionality associated with the book.**

Disabling Books –

- Administrators can deactivate book records.**
- Restricts access and associated functionality.**

Book List

[Add new book](#)

Search by Title, Author , Category

ID	Author	Name	Description	Price	Action
1	Ritik Asthana	springbootcid	Computer Science	1200	Delete Edit Enable
2	Sweety Sharma	Java Programming	Computer Science	189	Enable
5	Ramesh verrma	Life of jesus	Religious	800	Delete Edit Enable

ADMIN BOOK REVIEW LIST

- After logging into the admin navigate to the admin dashboard.
- Click the display rating list button.
- It takes you to admin rating and review list.
- The rating and review list gives you the rating reviews of all the users.



ENZ Book Club

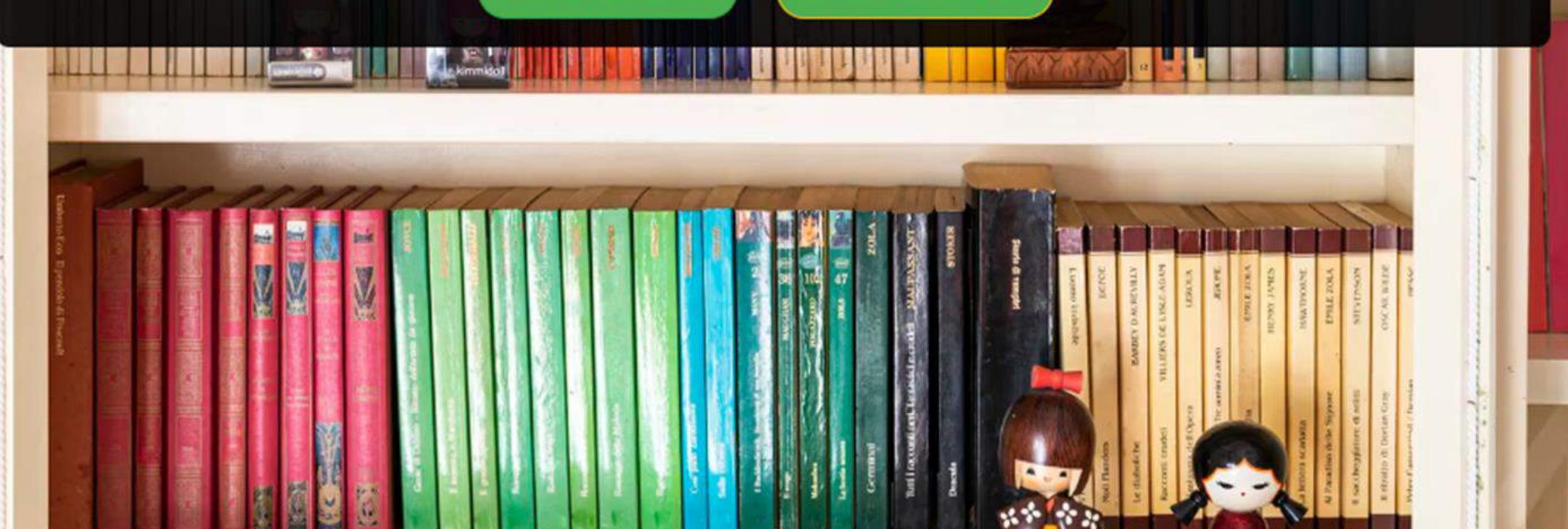


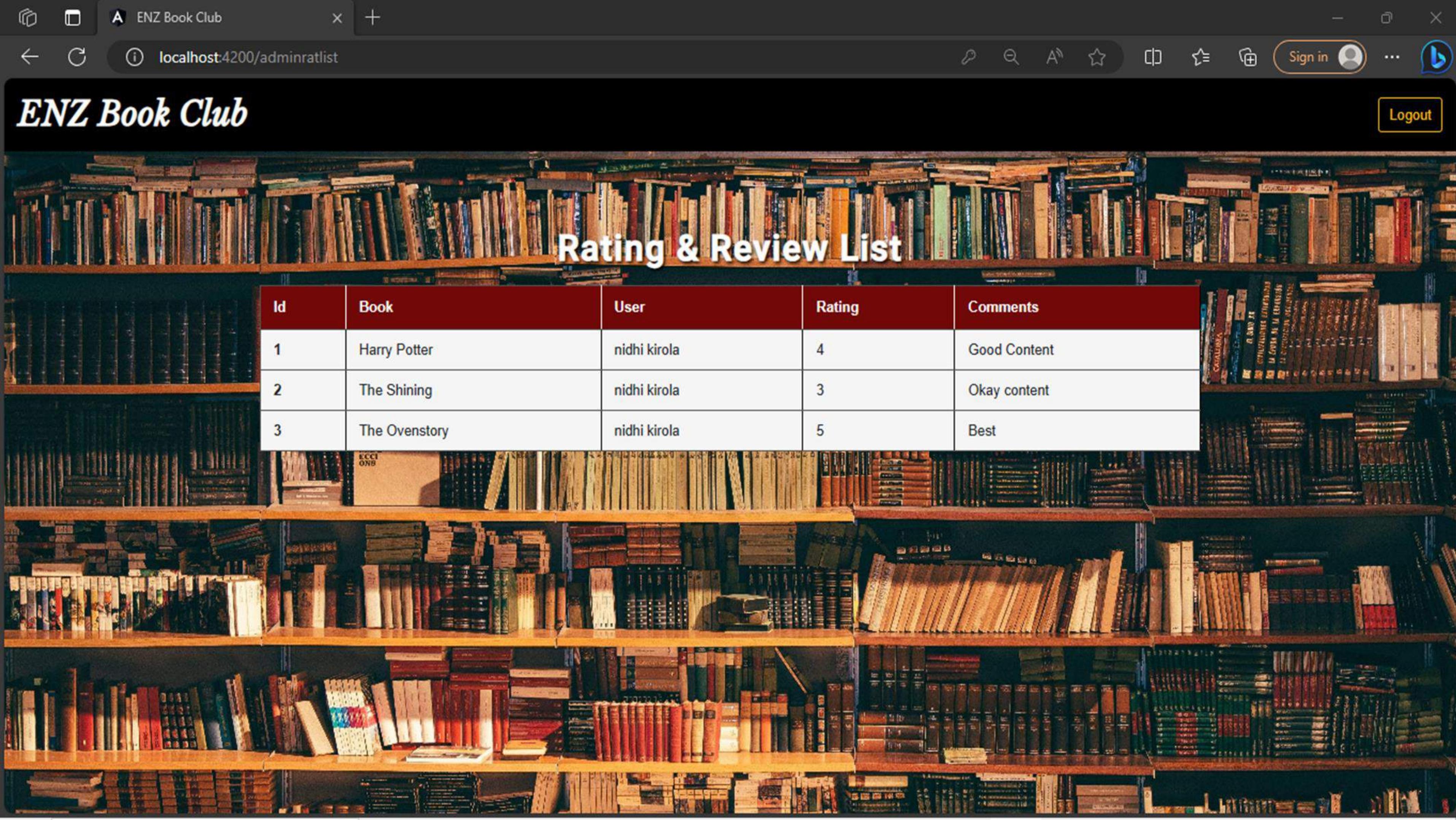
Hello, Admin!

"ENZ Book Club" functions as a web platform dedicated to book enthusiasts, enabling them to both register and exchange their thoughts and evaluations regarding a curated collection of books.

Kindly show your support for the books worth reading by liking, commenting on, and sharing them

[Display Booklist](#)[Display Ratinglist](#)





Rating & Review List

Id	Book	User	Rating	Comments
1	Harry Potter	nidhi kirola	4	Good Content
2	The Shining	nidhi kirola	3	Okay content
3	The Ovenstory	nidhi kirola	5	Best

Home Workspaces API Network Explore

Search Postman

Invite Upgrade

No Environment

Overview GET http://localhost:8082/e ● + ⚡

HTTP http://localhost:8082/api/review/list

Save

GET http://localhost:8082/api/review/list Send ⚡

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

1 {
2 ...
3 ...
4 ...
5 }

Body Cookies Headers (8) Test Results Status: 200 OK Time: 85 ms Size: 522 B Save as Example ⚡

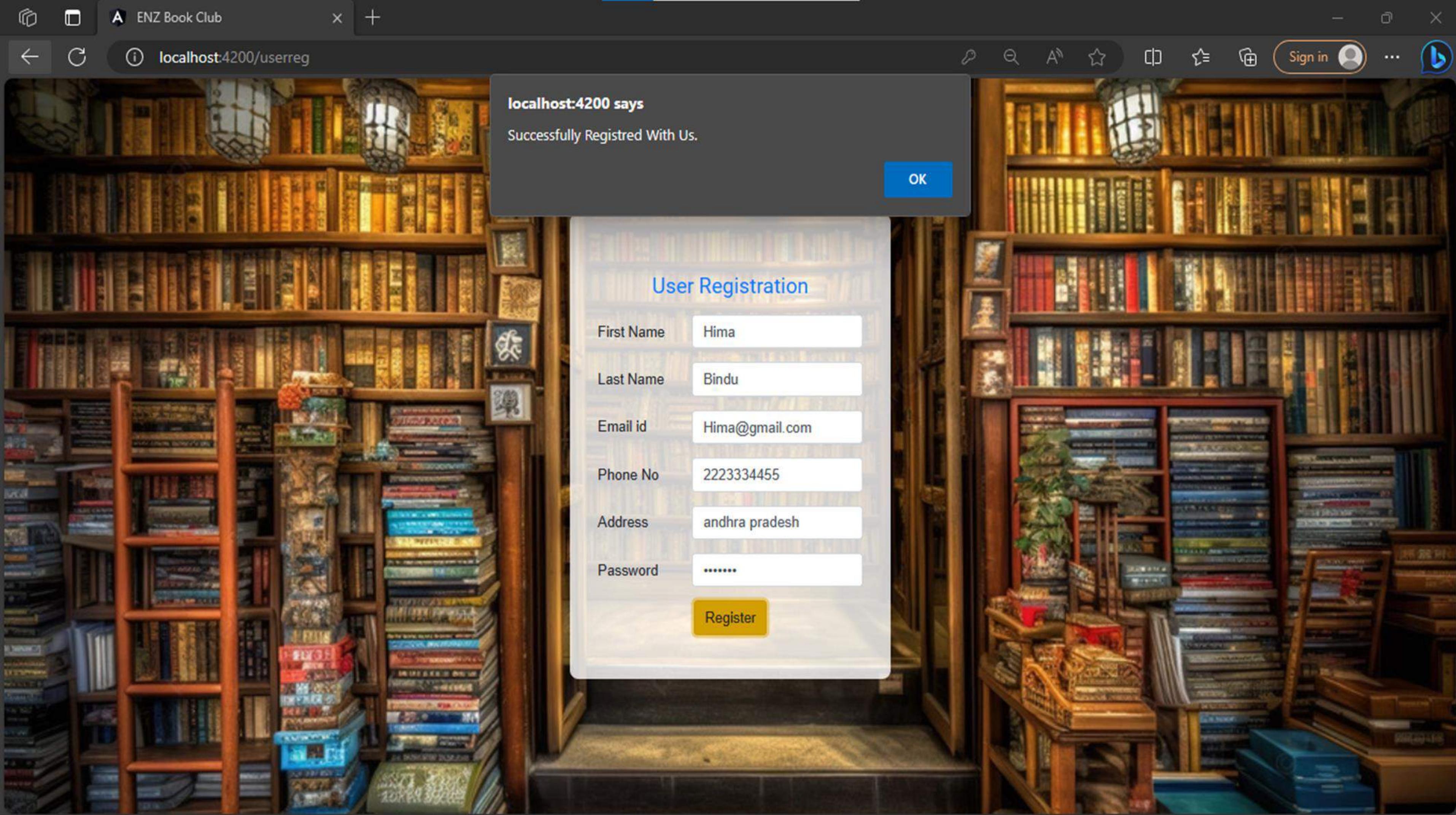
Pretty Raw Preview Visualize JSON

1 {
2 {
3 "id": 1,
4 "name": "nidhi kirola",
5 "review": "Good Content",
6 "rating": 4,
7 "bookname": "Harry Potter"
8 },
9 {
10 "id": 2,

Online Find and replace Console Postbot Runner Start Proxy Cookies Trash

USER REGISTRATION

- This web application “Online Book Review System”, has another main module which is the user module.
- This user registration page has been designed using the angular which acts as a tool for front end needs and has used the spring boot for server side connectivity.
- This includes a form for creating the new account for the user which prompt for the details of the user like first name, last name, email address and password ,phone number.



localhost:4200 says

Successfully Registered With Us.

OK

User Registration

First Name

Last Name

Email id

Phone No

Address

Password

Register

≡ ← → Home Workspaces API Network Explore

Search Postman

+ ⚡ Invite ⚡ Upgrade

No Environment

Overview POST http://localhost:8082/

HTTP http://localhost:8082/api/user/newregister

POST http://localhost:8082/api/user/newregister

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON

Beautify

```
1 "id": 11,
2 "firstname": "vimala",
3 "lastname": "rezi",
4 "email": "vimala@gmail.com",
5 "password": "vimala",
6 "phone": 68349111871,
7 "address": "delhi"
```

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 897 ms Size: 399 B Save as Example ⚡

Pretty Raw Preview Visualize JSON

```
1 "id": 4,
2 "firstname": "vimala",
3 "lastname": "rezi",
4 "email": "vimala@gmail.com",
5 "password": "vimala",
6 "phone": 68349111871,
7 "address": "delhi",
8 "empty": false
```

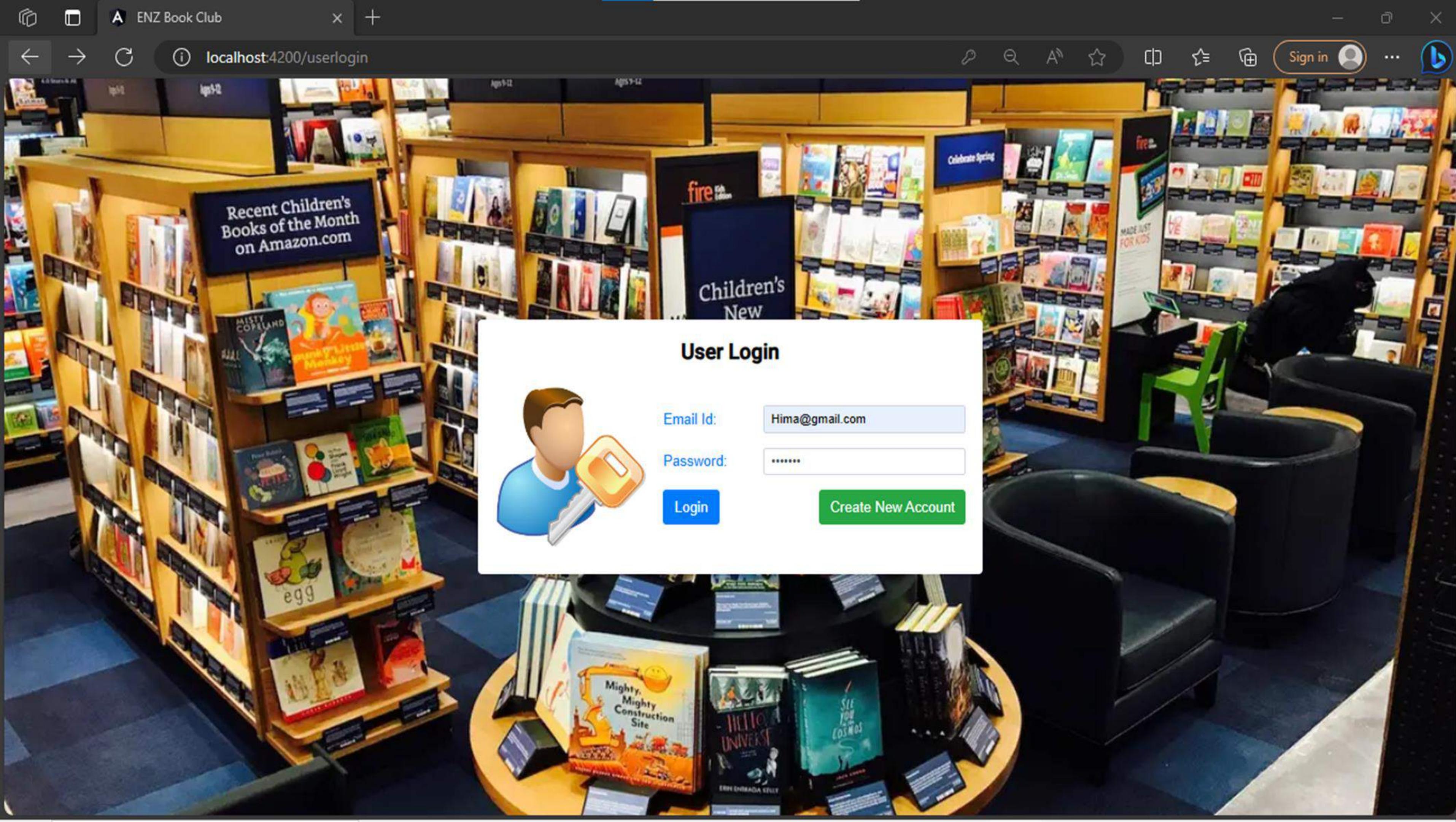
Online Find and replace Console

Postbot Runner Start Proxy Cookies Trash

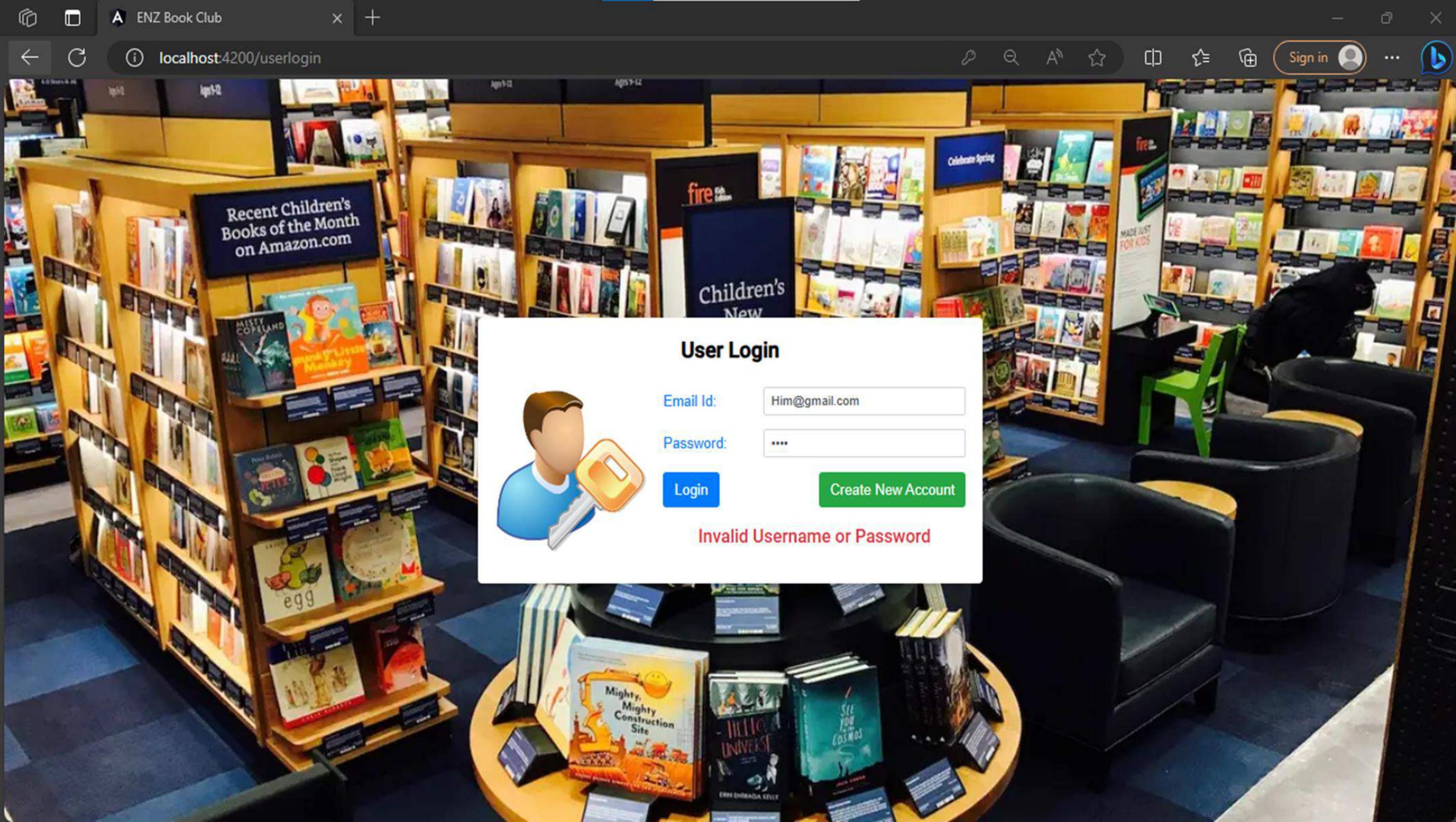
USER LOGIN

- After the successful creation of new account, the user will be navigated to the user login page.
- This user login page includes a form for entering the username and the password that is created by the user on the phase of registration and can log in to the portal.





Sign in



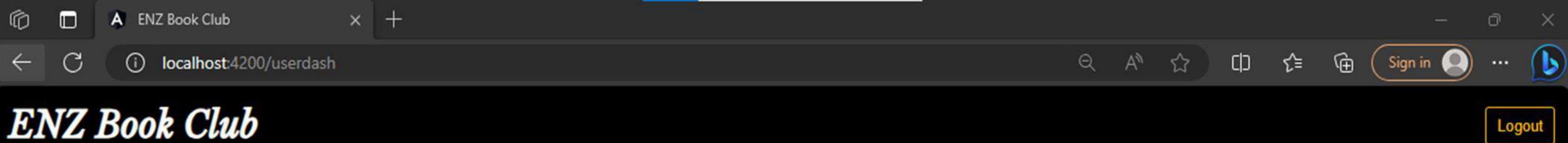
Sign in



USER DASHBOARD & BOOKLIST

- After successful login the user navigates to the user dashboard.
- User can click on book list and access the book list.
- The user can see the list of books with name, author, category and price.
- User can search the book by the title and author name.



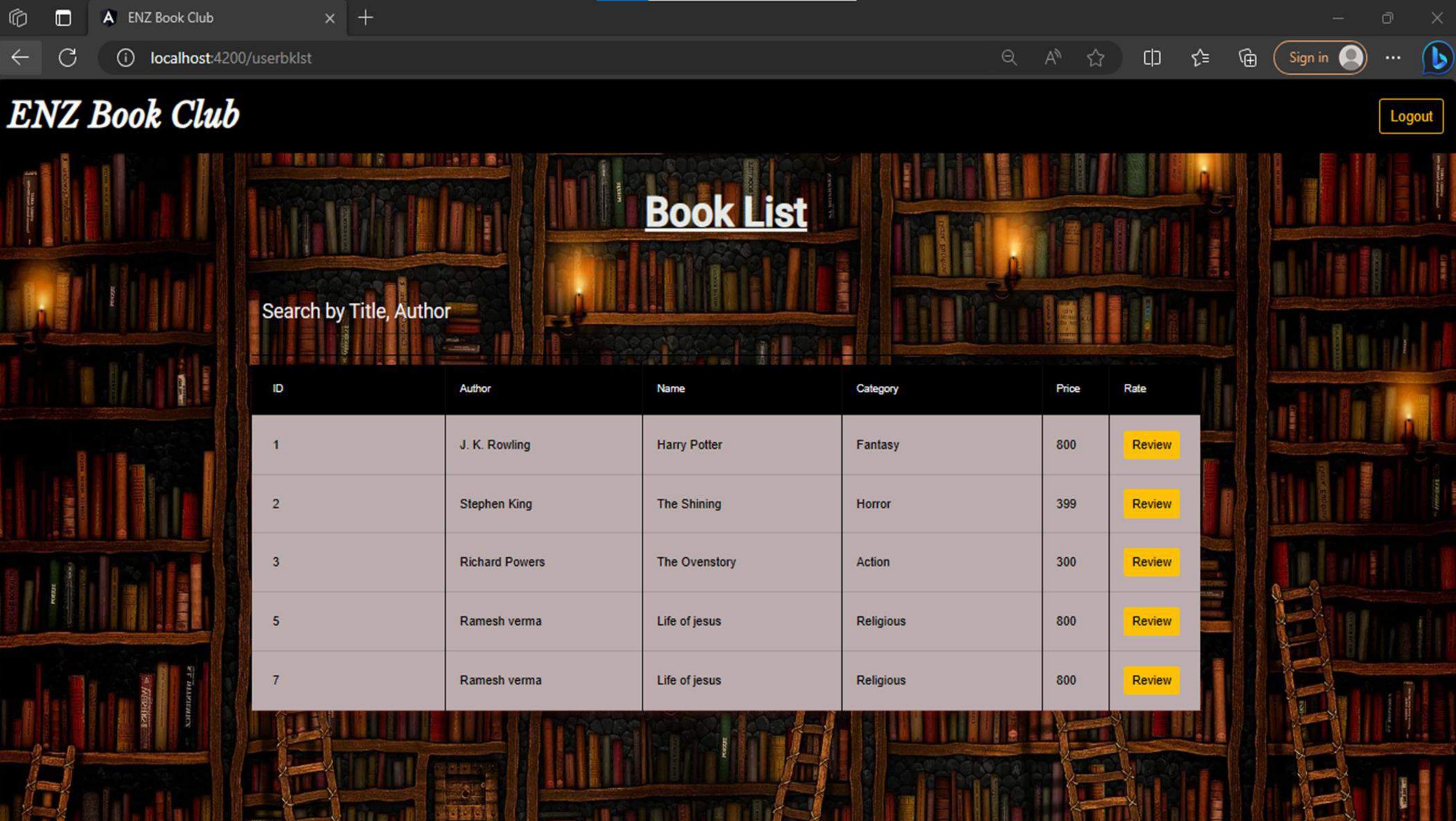


Hello, lokesh pallikonda

Greetings to the largest virtual book emporium.

Express your thoughts through the options of liking, commenting, and rating.

[Book List](#)[User Profile](#)



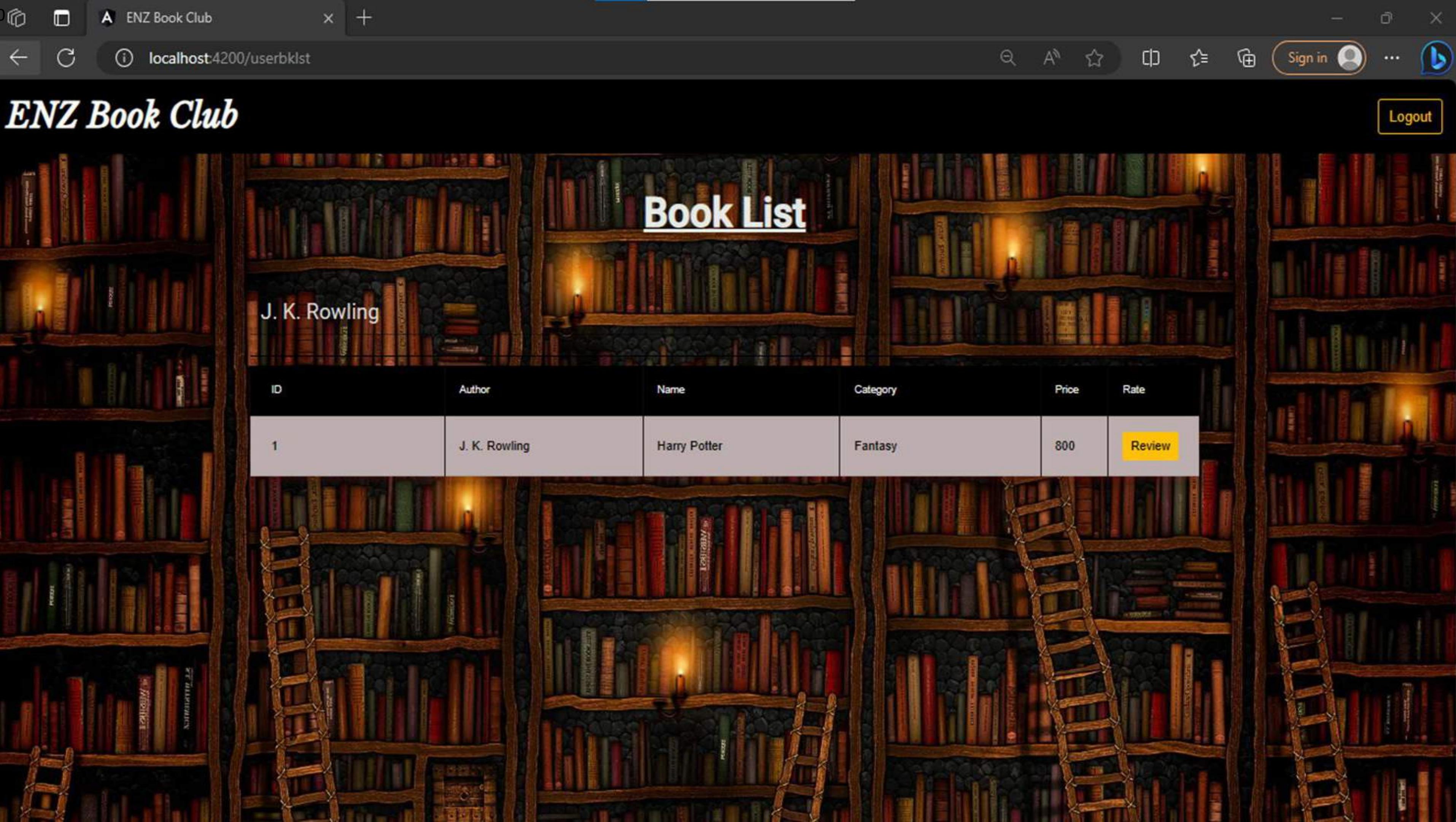
ENZ Book Club

[Sign in](#)[Logout](#)

Book List

Search by Title, Author

ID	Author	Name	Category	Price	Rate
1	J. K. Rowling	Harry Potter	Fantasy	800	<button>Review</button>
2	Stephen King	The Shining	Horror	399	<button>Review</button>
3	Richard Powers	The Ovenstory	Action	300	<button>Review</button>
5	Ramesh verma	Life of jesus	Religious	800	<button>Review</button>
7	Ramesh verma	Life of jesus	Religious	800	<button>Review</button>



ID	Author	Name	Category	Price	Rate
1	J. K. Rowling	Harry Potter	Fantasy	800	Review

Overview

GET http://localhost:8082/z

http://localhost:8082/api/product/Harry Potter

GET http://localhost:8082/api/product/Harry Potter

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

1
2
3
4
5
6

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 185 ms Size: 341 B Save as Example

Pretty Raw Preview Visualize JSON

```
1
2   "id": 1,
3   "name": "Harry Potter",
4   "author": "J. K. Rowling",
5   "price": 800,
6   "category": "Fantasy"
7
```



USER PROFILE

- User profile shows the details of the user like name , email , phone and address.
- It also has a update profile button.
- The update profile button navigates to update profile page.





ENZ Book Club

Sign in

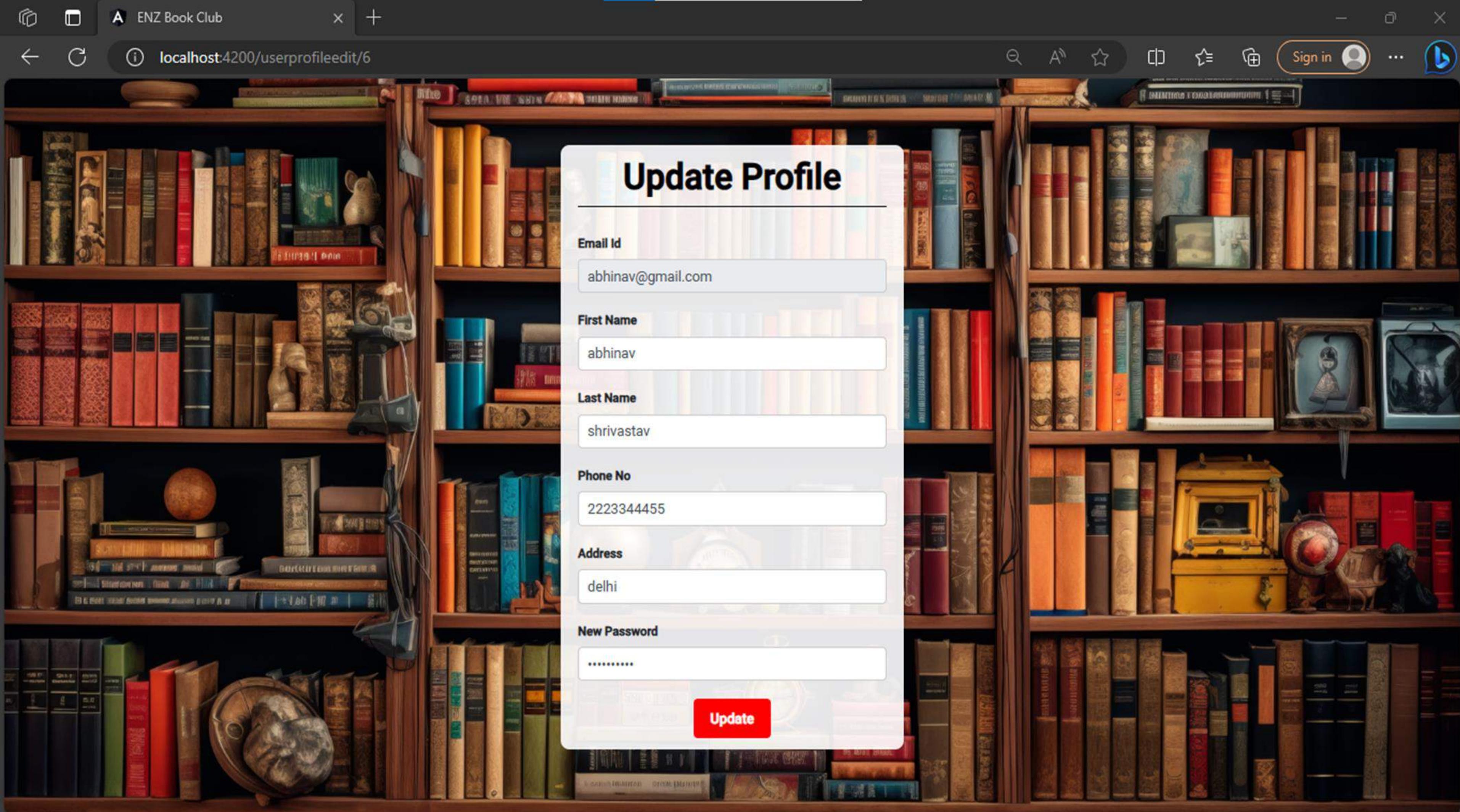


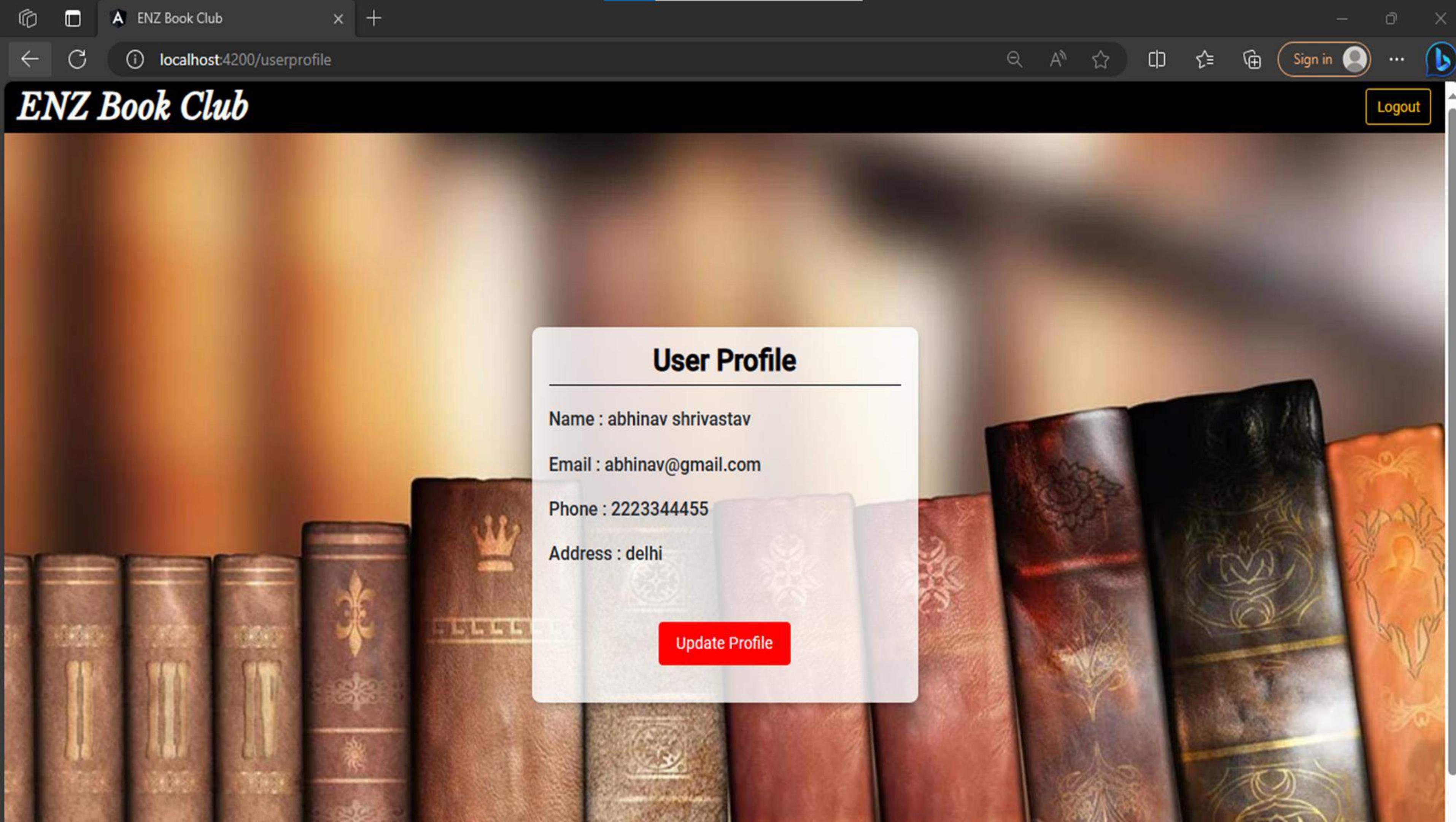
Logout

UPDATE PROFILE

- Update profile page helps us to change the details of the user.
- We can change first name , last name , phone number and address.
- The user cannot change their email-id.
- The user can update the password.







ENZ Book Club

localhost:4200/userprofile

User Profile

Name : abhinav shrivastav

Email : abhinav@gmail.com

Phone : 2223344455

Address : delhi

Update Profile

Home Workspaces API Network Explore Search Postman Invite Upgrade

No Environment

HTTP <http://localhost:8082/api/user/list>

GET http://localhost:8082/api/user/list

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

1 2 3 4 5 6 7 8 9

Status: 200 OK Time: 139 ms Size: 1.15 KB Save as Example

Pretty Raw Preview Visualize JSON

```
1 "id": 1,
2 "firstname": "abhinav",
3 "lastname": "kumar",
4 "email": "abhinav1@gmail.com",
5 "password": "abhinav123",
6 "phone": 148404994,
7 "address": "Patna",
8 "empty": false
```

Online Find and replace Console Postbot Runner Start Proxy Cookies Trash

≡ ← → Home Workspaces API Network Explore

Search Postman

Invite Settings Notifications Upgrade

No Environment

Overview POST http://localhost:8082/ + ⚡

HTTP <http://localhost:8082/api/user/userupdate/1>

POST <http://localhost:8082/api/user/userupdate/1>

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

2 ...
3 "address": "Patna",
4 "email": "abhinav1@gmail.com",
5 "firstname": "abhinav",
6 "lastname": "kumar",
7 "password": "abhinav123",
8 "phone": "148404994"
9 ...
10 ...

Body Cookies Headers (8) Test Results Status: 200 OK Time: 148 ms Size: 406 B Save as Example ⚡

Pretty Raw Preview Visualize JSON

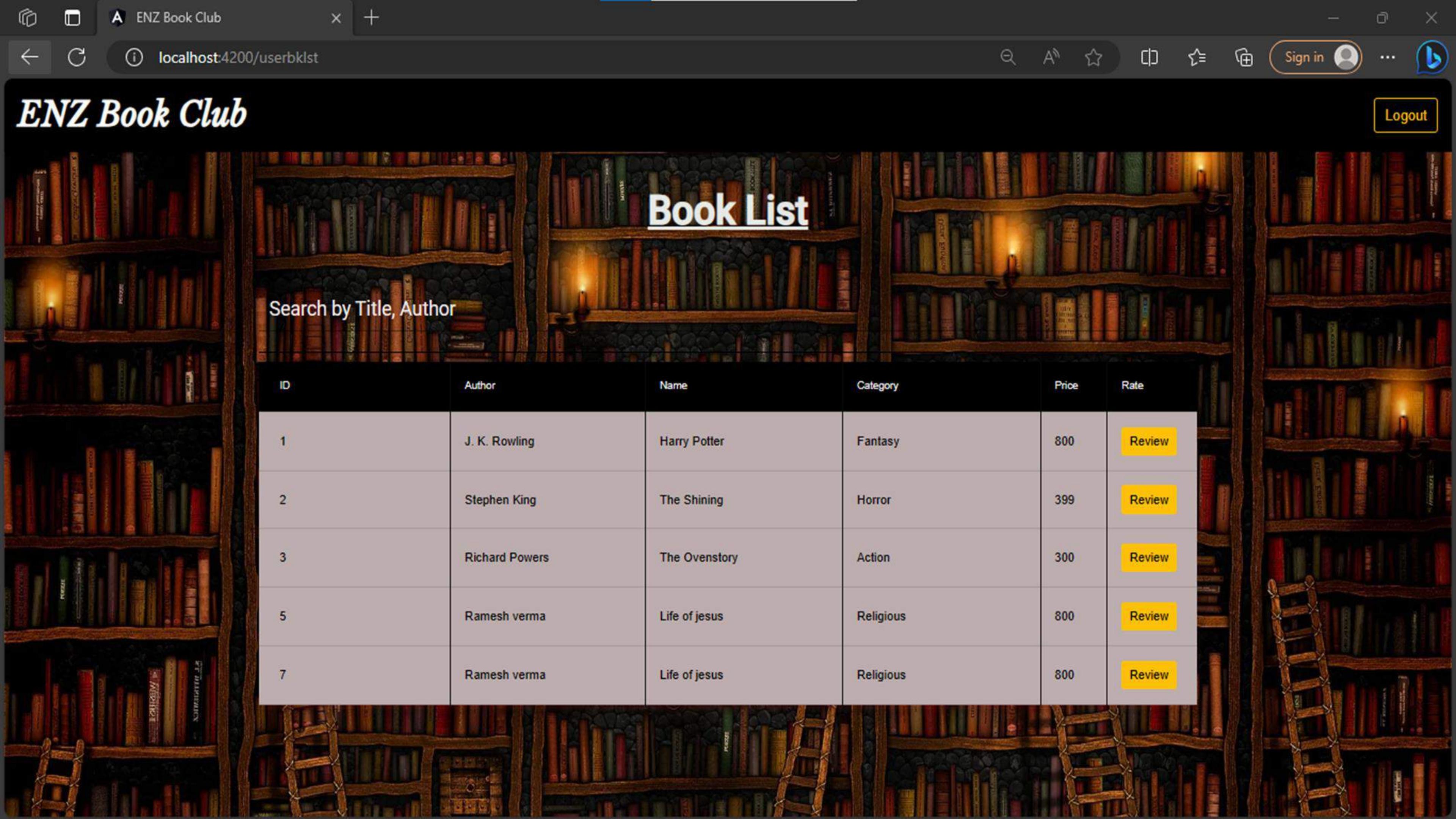
1
2 "id": 1,
3 "firstname": "abhinav",
4 "lastname": "kumar",
5 "email": "abhinav1@gmail.com",
6 "password": "abhinav123",
7 "phone": 148404994,
8 "address": "Patna",
9 "empty": false
10 ...

Online Find and replace Console Postbot Runner Start Proxy Cookies Trash

USER RATING & REVIEWS

- This page contains the following functionalities:
- It will display the container by the name of "Book details" that will contain book name, author , price and category.
- Below that it will display the another container by the name of "Give Us Star Rating" and a "Review box"
- User can slide the bar to give the star rating between 1 to 5.
- In the Review box one can leave comment about the book.
- At last one can submit the reviews and ratings by clicking on the "Submit Button".





ENZ Book Club

Book List

Search by Title, Author

ID	Author	Name	Category	Price	Rate
1	J. K. Rowling	Harry Potter	Fantasy	800	<button>Review</button>
2	Stephen King	The Shining	Horror	399	<button>Review</button>
3	Richard Powers	The Ovenstory	Action	300	<button>Review</button>
5	Ramesh verma	Life of jesus	Religious	800	<button>Review</button>
7	Ramesh verma	Life of jesus	Religious	800	<button>Review</button>

Sign in  Logout 



Book Details

Book Name : Harry Potter

Author : J. K. Rowling

Price : 800

Category : Fantasy

Give Us Star Rating



Review :

The Harry Potter series, written by J.K. Rowling, has undoubtedly captivated the hearts and imaginations of millions of readers around the world.

Submit

Home Workspaces API Network Explore Search Postman Invite Upgrade

Overview POST http://localhost:8082/ No Environment

http://localhost:8082/api/review/add

POST http://localhost:8082/api/review/add Send

Params Authorization Headers (8) Body (highlighted) Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1
2   "bookname": "amish",
3   "name": "amish tripathi",
4   "rating": 4,
5   "review": "good"
6
7 ...
8
9 ...
```

Body Cookies Headers (8) Test Results Status: 200 OK Time: 954 ms Size: 331 B Save as Example

Pretty Raw Preview Visualize JSON

```
1
2   "id": 4,
3   "name": "amish tripathi",
4   "review": "good",
5   "rating": 4,
6   "bookname": "amish"
7
```

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THANK YOU