

Java Group Mini Project

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Project Name : Library Management System

Information :

Authentication & Authorization

1. **User login system** using Spring Security.
2. **Role-based access control:**
 - ADMIN: Has access to all admin functionalities.
 - USER: Has access only to user functionalities.

☐ Admin Functionalities

3. **Add new books** to the library.
4. **Add authors** linked to books.
5. **Register new users** (assign roles).
6. **View all registered users.**
7. **View borrow history:**
 - Includes person name, book name, and return date.

📖 User Functionalities

8. **View list of available books.**
9. **Borrow a book** (updates availability and stores borrow date).
10. **Return a book** (updates availability and return date).

⚙️ Tech Stack

11. **Spring Boot** for backend logic and structure.
12. **Thymeleaf** for dynamic HTML views.
13. **Spring Security** for authentication and role management.
14. **MySQL + Spring Data JPA** for database operations.
15. **Maven** for dependency management.

Output :

The screenshot shows a web browser window with the address bar displaying 'localhost:4102/login'. The page title is 'Library Management System'. The main content area has a dark background and features the text 'Welcome to Online Library System' in white. Below this, there are two input fields: 'Username' with the placeholder 'Enter your username' and 'Password' with the placeholder 'Enter your password'. A blue 'Login' button is positioned below the password field. A small green 'Login' button is also visible in the top right corner of the page header. At the bottom center, there is a label 'Login Page'.

Library Management System

Welcome to Online Library System

Username

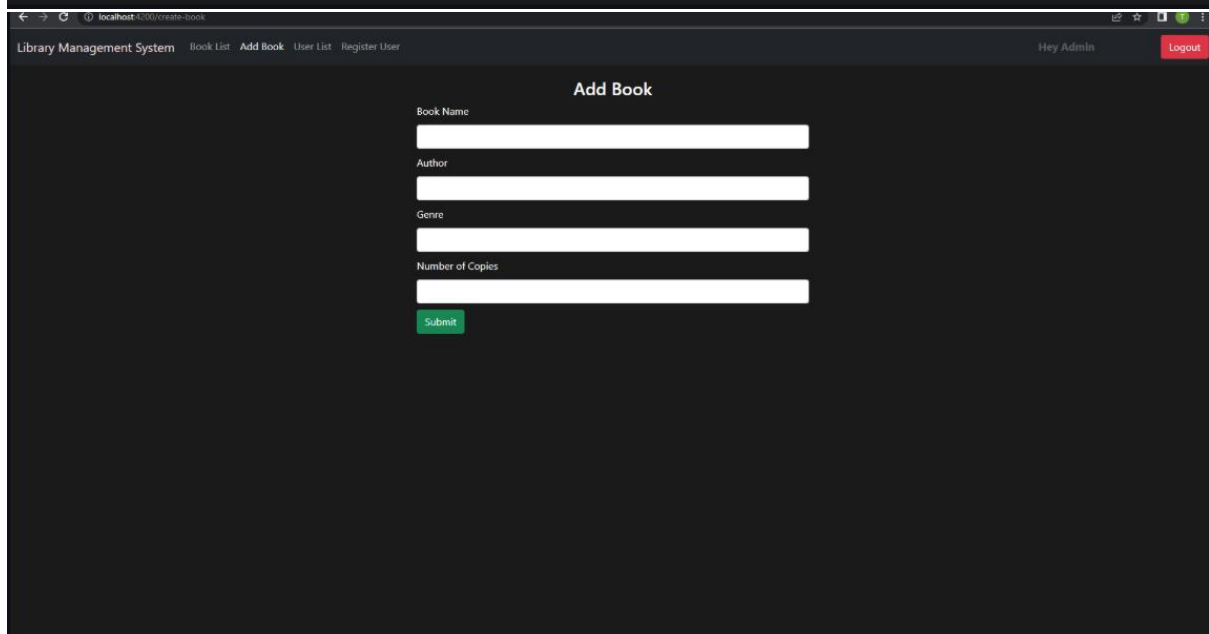
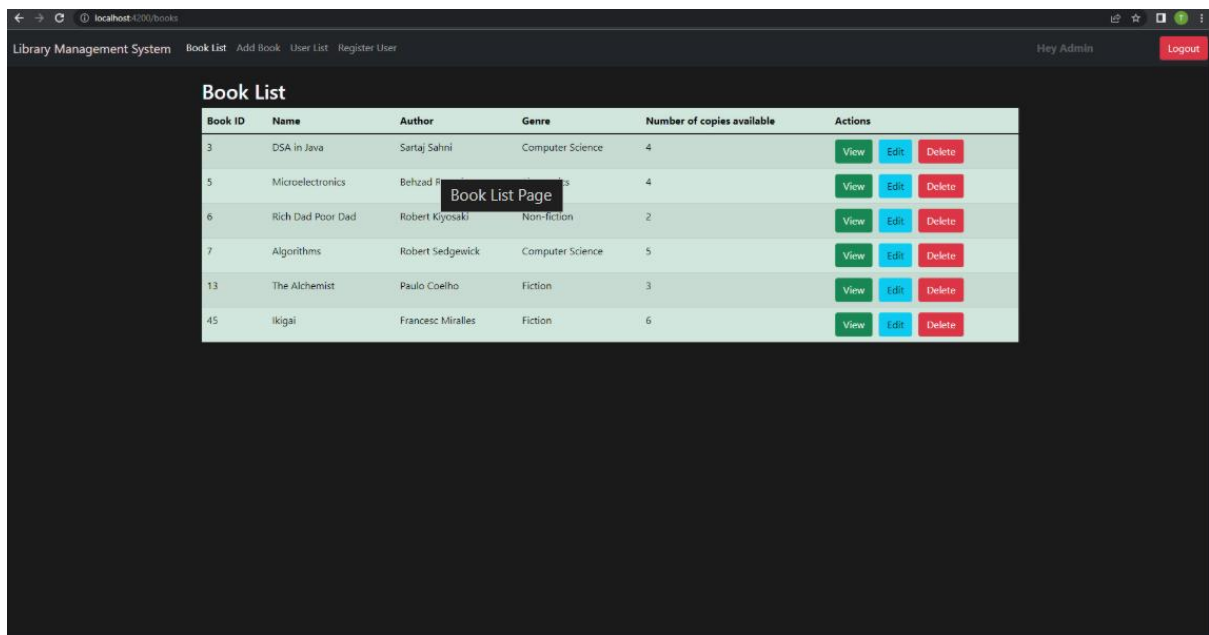
Enter your username

Password

Enter your password

Login

Login Page



[Library Management System](#)
[Book List](#)
[Add Book](#)
[User List](#)
[Register User](#)

Hey Admin
Logout

Borrow history of The Alchemist

User ID	Issue Date	Return Date
34	03-07-2022	04-07-2022
35	04-07-2022	04-07-2022
37	04-07-2022	04-07-2022
35	04-07-2022	04-07-2022
46	04-07-2022	04-07-2022
37	06-07-2022	Book not returned yet

[Library Management System](#)
[Book List](#)
[Add Book](#)
[User List](#)
[Register User](#)

Hey Admin
Logout

User List

User ID	Name	Username	Role	View History	Edit User
33	Admin	admin	Admin		Edit
34	Tarun Gowda	tarun	User	View	Edit
35	Tanmai Srinath	tanmai	User	View	Edit
36	admin 2	admin2	Admin		Edit
37	Rahul Chikkodi	rahulc	User	View	Edit
38	admin3	admin3	Admin		Edit
44	Aman Singh	aman	User	View	Edit
46	Gokul Sibi	gokul	User	View	Edit

User List Page

[Library Management System](#)
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[Add Book](#)
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[Register User](#)

Hey Admin
Logout

Add User

Name

Username

Password

Role (Admin, User)

Add User Page

Library Management System

[Book List](#)[Add Book](#)[User List](#)[Register User](#)

Hey Admin

Logout

Borrow history of Rahul Chikkodi

Book ID	Issue Date	Return Date
7	04-07-2022	04-07-2022
13	04-07-2022	04-07-2022
3	04-07-2022	04-07-2022
6	04-07-2022	Book not returned yet
13	06-07-2022	Book not returned yet

User Details Page

Library Management System

[Borrow Books](#)[Return Books](#)

Hey Rahul Chikkodi

Logout

List of available books in the library

Book ID	Name	Author	Genre	Number of copies available	Actions
3	DSA in Java	Sartaj Sahni	Computer Science	4	Borrow
5	Microelectronics	Behzad Razavi	Electronics	4	Borrow
6	Rich Dad Poor Dad	Robert Kiyosaki	Non-fiction	2	Borrow
7	Algorithms	Robert Sedgewick	Computer Science	5	Borrow
13	The Alchemist	Paulo Coelho	Fiction	2	Borrow
45	Ikigai	Francesc Miralles	Fiction	6	Borrow

Library Management System

[Borrow Books](#)[Return Books](#)

Hey Rahul Chikkodi

Logout

List of books to be returned

Book ID	Issue Date	Return Date	Overdue Date	Action
7	04-07-2022	04-07-2022	10-07-2022	
13	04-07-2022	04-07-2022	10-07-2022	
3	04-07-2022	04-07-2022	10-07-2022	
6	04-07-2022		10-07-2022	Return
13	06-07-2022		13-07-2022	Return

Return Book Page

