

BATCH 2 JAVA FSD ANGULAR

OUR GROUP PROJECT DOCUMENTATION

MOVIE BOOKING SYSTEM

BY TEAM

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PERUMAL

OVERVIEW

The Movie Booking System is a backend application developed using Spring Boot, designed to manage movies, theaters, showtimes, and bookings. It features user authentication and authorization through Spring Security, allowing for a secure and efficient management process. The project provides a full-fledged solution for handling complex data relationships and facilitates easy frontend integration through RESTful APIs.

2. System Architecture

Technology Stack: Spring Boot, MySQL, Spring Security, and RESTful APIs.

Architecture: Built with microservice architecture principles, ensuring scalability and maintainability.

3. Modules and Features

User Authentication and Authorization: Supports user registration, login, and role-based access control.

Movie Management: Enables adding, updating, deleting, and viewing movies.

Theater Management: Allows adding, updating, deleting, and viewing theaters.

Showtime Management: Provides CRUD operations for showtimes.

Booking Management: Facilitates creating, updating, deleting, and viewing bookings.

Search and Filter: Implements search and filter functionalities for movies and showtimes.

4. Entity Relationships

User: Can have multiple bookings (One-to-Many with Booking).

Movie: Can have multiple showtimes (One-to-Many with Showtime).

Theater: Can have multiple showtimes (One-to-Many with Showtime).

Showtime: Belongs to one movie and one theater but can have multiple bookings.

Booking: Belongs to one user and one showtime.

5. Technical Implementation

Utilizes Spring Data JPA for data access and management.

Swagger is used for API documentation.

Spring Cloud Config is implemented for configuration management.

Incorporates Java 8 features and exception handling mechanisms.

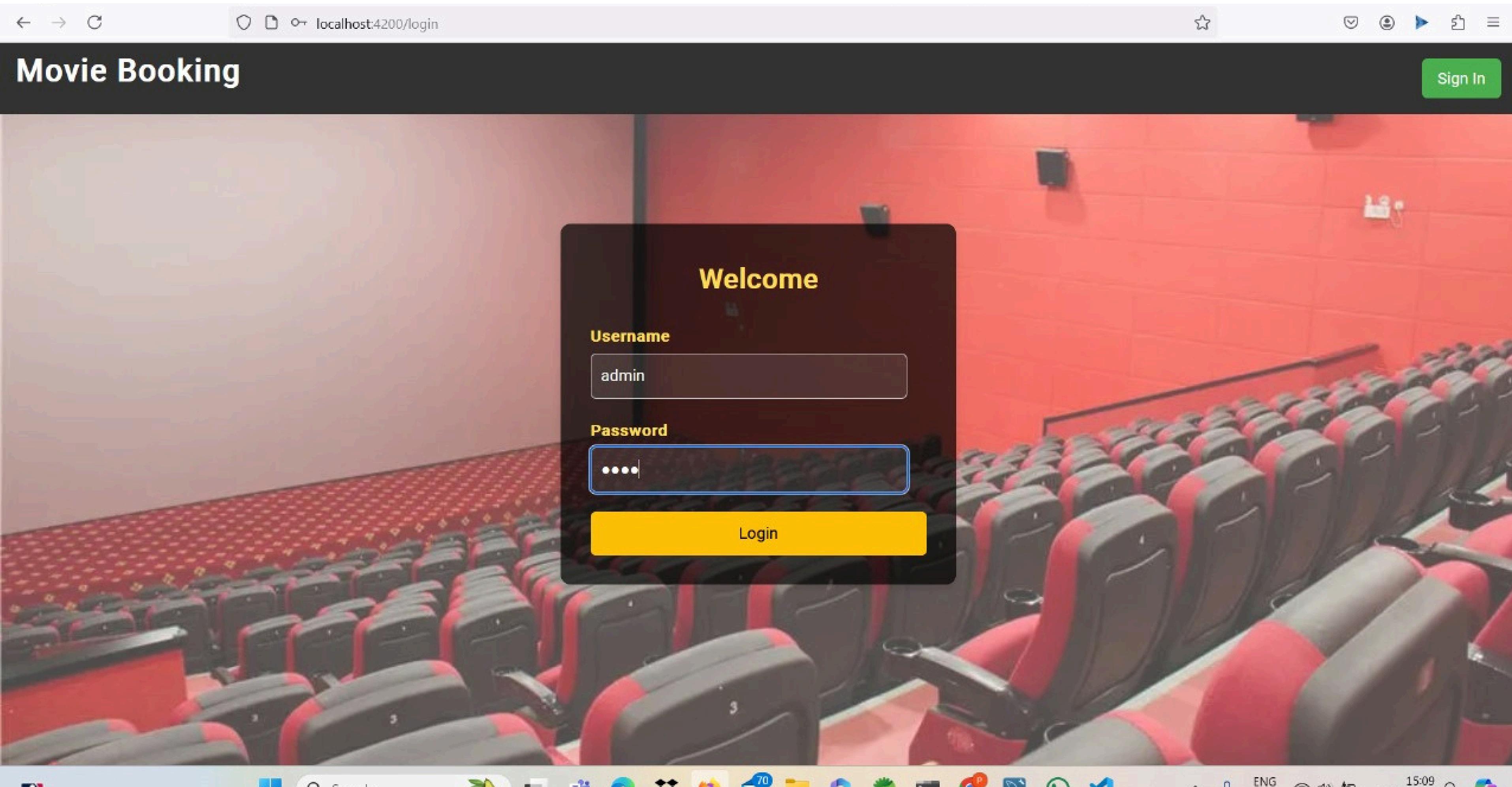
6. API Integration

Exposes RESTful APIs to enable seamless integration with frontend applications.

7. Challenges and Solutions

Addressed challenges related to data relationships and security implementation by leveraging Spring frameworks and best practices.

FOR ADMIN LOGIN



SIGN UP WITH VALIDATIONS

localhost:4200/signup

Sign Up

Username: Nilam

Password: Password must contain at least one uppercase letter, one lowercase letter, one number, and one special character.

Email: nilam45 Please enter a valid email address.

Role: user

First Name: Nilam

Last Name: Marathe

[SignUp](#) [Login](#)

localhost:4200/signup

Sign Up

Username: Nilam

Password:

Email: nilam@localhost:4200 Sign Up Successful!!!!

Role: user

First Name: Nilam

Last Name: Marathe

[SignUp](#) [Login](#)

SIGN UP SUCCESSFULLY

MOVIES LIST

localhost:4200/home/movie

Movie Booking System

- Movie
- Theater
- Booking
- Showtime
- User

Movie List

Search movies

Add Movie [Add Movie](#)

Movie Title	Image
Salaar	
KGF	
Avatar	

Logout



Search



ENG
IN



15:10
31-07-2024



MOVIES LIST

localhost:4200/home/movie

Movie

Theater

Booking

Showtime

User

Movie Booking System

Genre: epic action triller

Duration: 6 hours

Description: The film follows the friendship between deva and varadha

Rating: 4.5

[showtime](#) [Delete](#) [Edit](#)



Genre: Action

Duration: 2 hours

Description: In the blood-soaked Kolar gold fields, Rocky name strikes fear into his foes.

Rating: 4.2

[showtime](#) [Delete](#) [Edit](#)



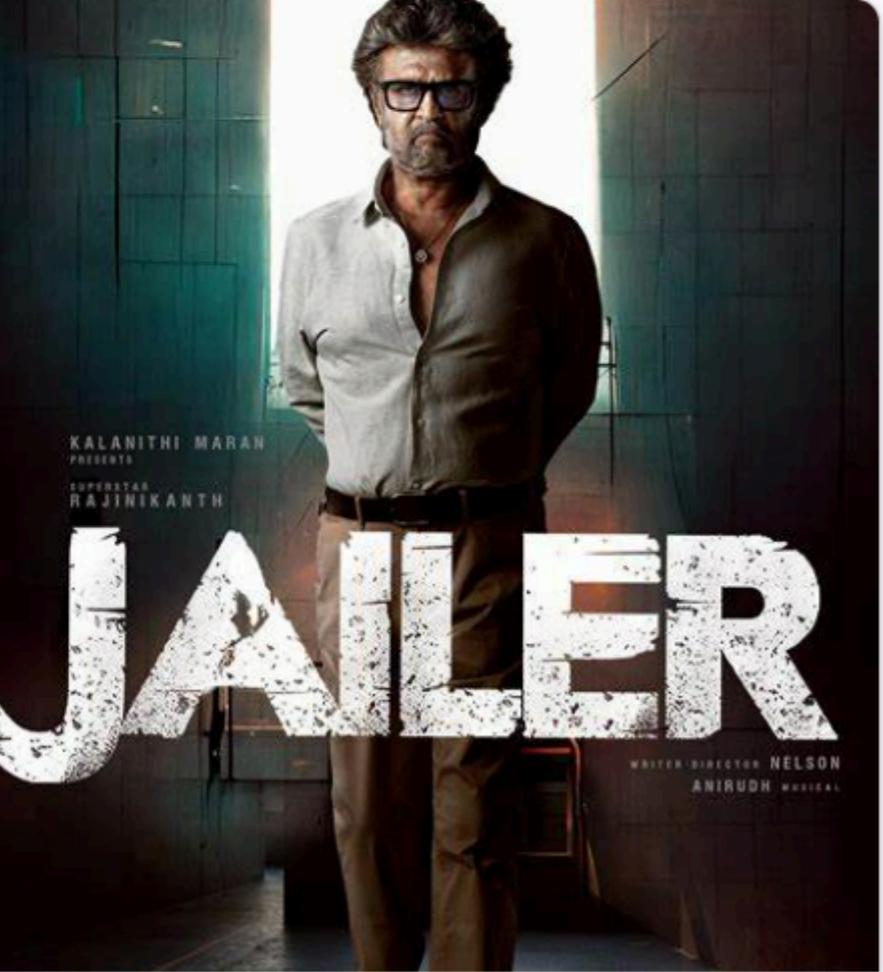
Genre: Science fiction, action

Duration: 2 hours

Description: The descent of a deity to the earth

Rating: 4

[showtime](#) [Delete](#) [Edit](#)



ADD MOVIES

localhost:4200/home/movie-add

Movie Booking System

New Movie

Title*

Description*

Genre*

Duration*

Rating*

Add New Movie

Cancel

Logout



Search



15:18
31-07-2024



EDIT MOVIES

localhost:4200/home/movie-edit/16

Movie Booking System

Movie

Theater

Booking

Showtime

User

Edit Movie

Title*

Description*

Genre*

Duration*

Rating*

UpdateCancel

Search



15:19
31-07-2024



SHOWTIME LIST IN MOVIE

localhost:4200/home/showtime-list-m/1

Movie Booking System

- Movie
- Theater
- Booking
- Showtime
- User

Showtime List

Search movies Cancel

#	Show Date	Show Time
1	2024-02-03	2pm
2	2024-02-03	3pm

GoBack

Logout

THEATER LIST

localhost:4200/home/theater

Gmail YouTube Maps News Translate Top PTE Training Ins... Maths Careerwill Customer analysis:... Techademy All Bookmarks

Movie Booking System

Movie Theater Booking Showtime User

Theater List

Search movies Cancel Add Theater

Theater Name	Location	Capacity	Operation
PVR cinemas	delhi	500	<button>showtime</button>
Inox theater	banglore	600	<button>showtime</button>
Sandhya Digital Theater	banglore	500	<button>showtime</button>
balaji Theater	Gurugram	400	<button>showtime</button>
Cinepolis Cinemas	delhi	500	<button>showtime</button>
PVR cinemas Gold	delhi	800	<button>showtime</button>
PVR	delhi	600	<button>showtime</button>

EDIT THEATER

Movie Booking System

Edit Theater

Name*
Oasis

Location*
solapur

Capacity*
127

Update Theater Cancel

Movie Booking System

New Theater

Name*
Oasis

Location*
Solapur

Capacity*
200

Add New Theater Cancel

Logout

ADD THEATER

BOOKING LIST

localhost:4200/home/booking-list

Movie Booking System

Movie

Theater

Booking

Showtime

User

Logout

Booking List

bookingDate	totalPrice	numberOfTickets	Showtime	User	Operation
2024-02-02 00:00:00.000000	100	11	1	1	 
2024-07-12 00:00:00.000000	5	1	2	3	 
2024-07-18 00:00:00.000000	295	1	1	3	 
2024-02-22 00:00:00.000000	23689	8	1	1	 
2024-07-20 00:00:00.000000	200	1	1	1	 
2024-07-12	500	1	2	3	 



Search

ENG
IN15:48
31-07-2024

SHOWTIME LIST

localhost:4200/home/showtime

Movie Booking System

Movie

Theater

Booking

Showtime

User

Logout

Showtime List

Enter Movie ID Get by Movie ID

Enter Theater ID Get by Theater ID

Add Showtime

Showtime ID	Movie	Theater	Show Date	Show Time	Actions
1	Salaar	Oasis	2024-02-03	2pm	<button>Booking</button>
2	Salaar	Oasis	2024-02-03	3pm	<button>Booking</button>



Search

ENG
IN15:52
31-07-2024

ADD SHOWTIME WITH DROPDOWN

Movie Booking System

New Showtime

Movie: 1 Salaar

Theater:

- 1 Oasis
- 3 MMM
- 5 PVC Cinema

Show Time: 02:05 am

Submit Cancel



Movie Booking System

New Showtime

Movie: 1 Salaar

1 Salaar

2 KGF

3 Avatar

4 Drishyam

5 RRR

6 Jailer

16 Salaar

Submit Cancel

Logout



EDIT SHOWTIME

localhost:4200/home/showtime-edit/1

Edit Showtime

Movie

1

Theater

1

Show Date

2024-02-03

Show Time

2pm

Update Cancel

Logout



Search



ENG
IN



15:58
31-07-2024



localhost:4200/home/booking-li/1

Movie Booking System

- Movie
- Theater
- Booking
- Showtime
- User

Booking List

bookingDate	totalPrice	numberOfTickets
2024-02-02 00:00:00.000000	100	11
2024-07-12 00:00:00.000000	5	1
2024-07-18 00:00:00.000000	295	1
2024-02-22 00:00:00.000000	23689	8
2024-07-20 00:00:00.000000	200	1
2024-07-12	500	1

[GoBack](#)

[Logout](#)

EDIT BOOKING LIST

localhost:4200/home/booking-edit/1

Movie Booking System

Movie

Theater

Booking

Showtime

User

Logout

Edit Booking

Showtime ID:

Booking Date:

 Calendar icon

Number of Tickets:

 Up/Down arrow icons

Total Price:

 Up/Down arrow icons

Update Booking Cancel



Search

ENG
IN

15:50



31-07-2024



USER DETAILS AS PER ADMIN

localhost:4200/home/user

Gmail YouTube Maps Work Profile Hand... localhost / 127.0.0.1... Fav All Bookmarks

Movie Booking System

Movie

Theater

Booking

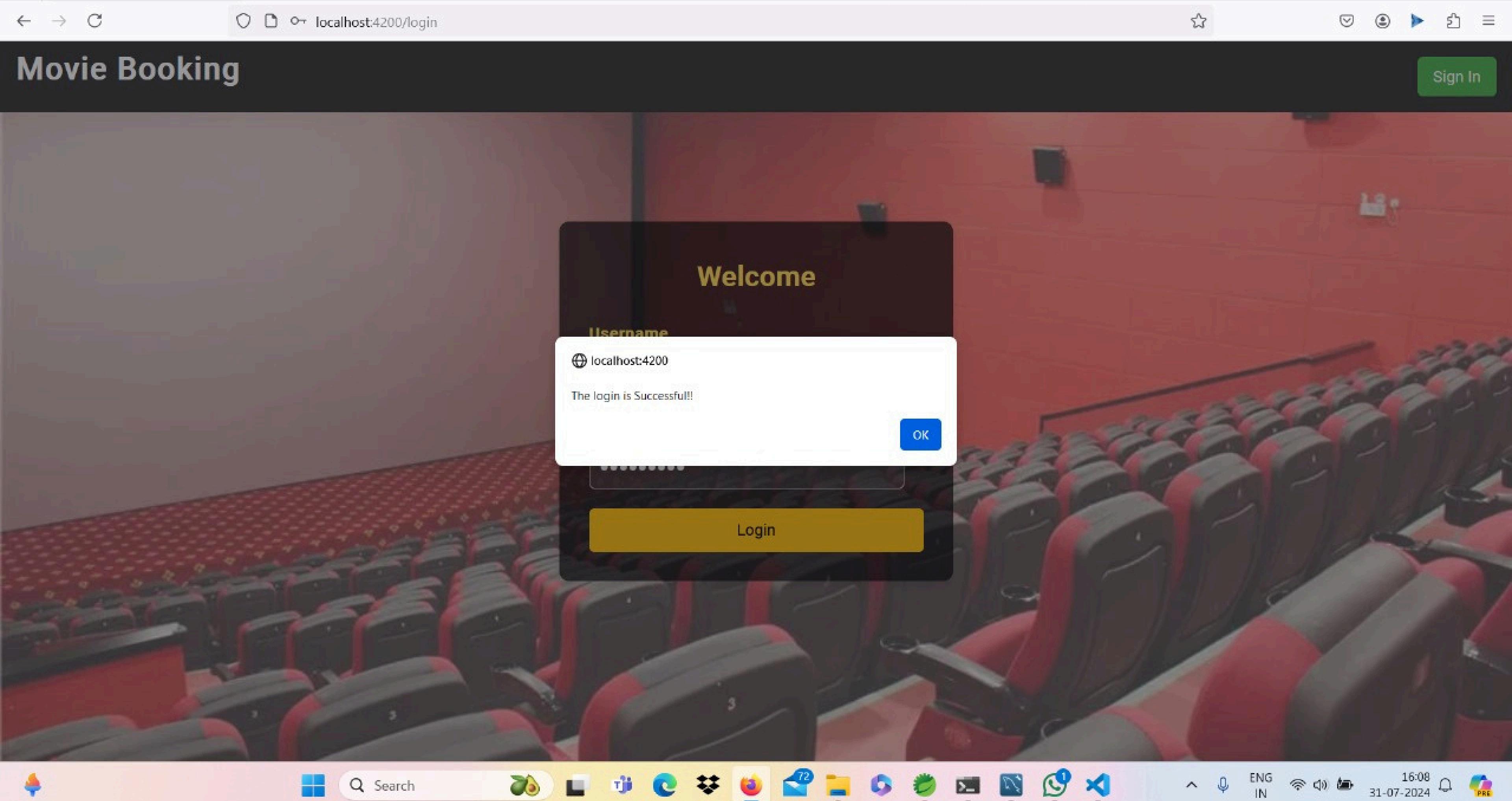
Showtime

User

User Details

#	Username	Email	FirstName	LastName
1	rohit	rohit@gmail.com	rohit	More
2	omkar	omkar@gmail.com	omkar	patil
3	ram	ram@gmail.com	ram	shinde
4	avaanesh	avaanesh@gmail.com	Avaanesh	Singh
5	sejal	sejal@gmail.com	Sejal	Kalra
6	pragati	pragati@gmail.com	Pragati	Birajdar
7	krishna	krishna@gmail.com	Venkata	Krishna
102	perumal	perumal@gmail.com	Perumal	M

LOGIN FOR THE USER



MOVIE LIST FOR USER

localhost:4200/home/movie

Logout

Movie List

Search movies

Cancel

- Movie
- Theater
- Booking
- Showtime
- User



Salaar



KGF



Avatar

localhost:4200/home/movie

Movie Booking System

- Movie
- Theater
- Booking
- Showtime
- User

Description: Salaar

Rating: 10

showtime

Description: KGF

Rating: 8

showtime

Description: Avatar

Rating: 4

showtime



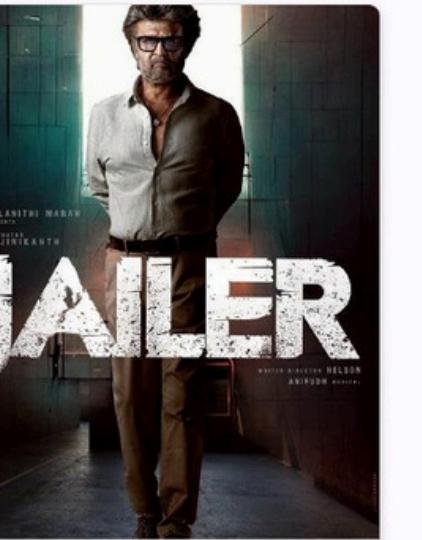
Drishyam

Genre: 5



RRR

Genre: 9



Jailer

Genre: 2

29°

localhost:4200/home/movie

Logout

ENG IN 16:09 31-07-2024

THEATER LIST FOR USER

localhost:4200/home/theater

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Movie Booking System

Theater List

Search movies Cancel

Theater Name	Location	Capacity	Operation
PVR	Pune	400	showtime
E-Square	Nanded	400	showtime
Zee	Nanded	100	showtime
Shyam	Pune	200	showtime
INOX	Pune	200	showtime
PVR ICON	Delhi	300	showtime
E-Square	Solapur	600	showtime

Movie Booking System

Showtime List

Search movies Cancel

#	Show Date	Show Time
1	2024-02-03	2pm
2	2024-02-03	3pm

Logout

GoBack

BOOKING LIST FOR USER

localhost:4200/home/booking-list

Movie Booking System

Add Booking

bookingDate	totalPrice	numberOfTickets	Showtime	User	Operation
2024-02-02 00:00:00.000000	100	11	1	1	
2024-07-12 00:00:00.000000	5	1	2	3	
2024-07-18 00:00:00.000000	295	1	1	3	
2024-02-22 00:00:00.000000	23689	8	1	1	
2024-07-20 00:00:00.000000	200	1	1	1	
2024-07-12	500	1	2	3	

Logout



Search

16:17
31-07-2024

ADD BOOKING FOR USER

Movie Booking System

New Booking

Showtime
1 - 2pm

User

- 1 - ABC
- 2 - Suresh
- 3 - pr
- 4 - ss
- 5 - aa
- 6 - qq
- 7 - yy
- 8 - aa
- 9 - Rahul
- 10 - Nilam

Movie Booking System

New Booking

Showtime
1 - 2pm
2 - 3pm

Booking Date
dd / mm / yyyy

Number of Tickets
0

Total Price
0

Add New Booking Cancel

SHOWTIME LIST FOR USER

localhost:4200/home/showtime

Movie Booking System

Movie

Theater

Booking

Showtime

User

Logout

Showtime List

Enter Movie ID Get by Movie ID

Enter Theater ID Get by Theater ID

Showtime ID	Movie	Theater	Show Date	Show Time	Actions
1	Salaar	Oasis	2024-02-03	2pm	<button>Booking</button>
2	Salaar	Oasis	2024-02-03	3pm	<button>Booking</button>

USER PROFILE

localhost:4200/home/user

Gmail YouTube Maps Work Profile Hand... localhost / 127.0.0.1... Fav All Bookmarks

Movie Booking System

Movie

Theater

Booking

Showtime

User

User Details

UserId	Username	Email	FirstName	LastName	Operation
2	omkar	omkar@gmail.com	omkar	patil	 

T H A N K Y O U