Movie Ticket Booking System Documentation

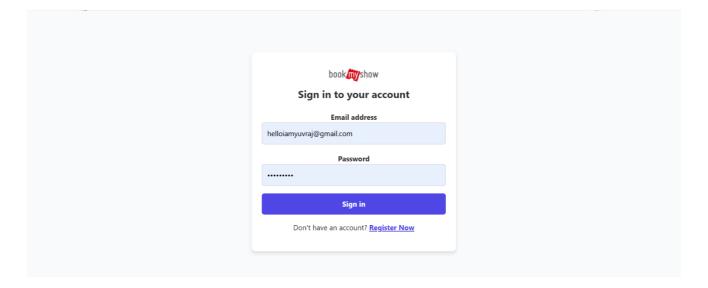
Overview

This project is a full-stack movie ticket booking system inspired by BookMyShow. It allows users to browse movies, view available slots, select seats, and book tickets seamlessly.

Frontend

1. Login Page

- Users must enter valid credentials to proceed to the home page.
- If credentials are incorrect, an error message is displayed.
- URL: /api/auth/login



2. Home Page

- Displays a carousel with featured movies.
- Shows movies categorized by genre.
- Clicking on a movie card navigates to its booking page.
- URL: /api/HomePage





Anime



Spirited Away

125 min A girl gets trapped in a magical world and must work in a bathhouse to save her parents.

Book Show



Your Name

107 min Anime Two strangers mysteriously switch bodies and try to find each other across time.

Book Show

• 0 0 0



A Silent Voice

Anime A former bully seeks redemption by reconnecting with the deaf girl he once tormented.

Book Show

RomCom



Crazy Rich Asians

RomCom A woman discovers her boyfriend is from one of the richest families in Singapore.

Book Show



10 Things I Hate About You

RomCom 97 min
A high school romance based on
Shakespeares "The Taming of the Shrew".

Book Show



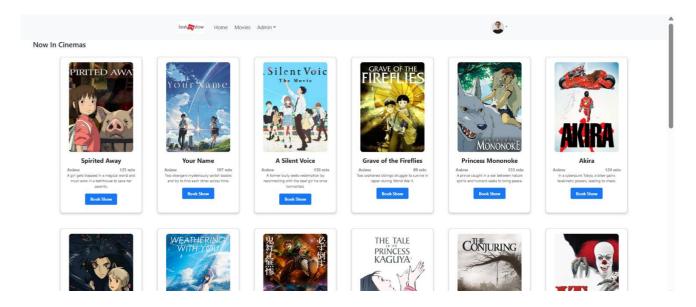
Notting Hill

124 min RomCom A bookshop owner falls in love with a famous Hollywood actress.

Book Show

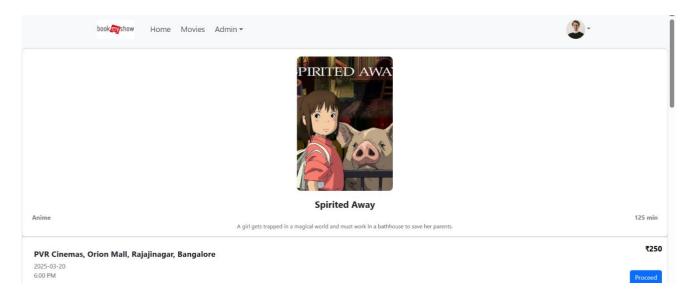
3. Movie Page

- Shows all the movie available.
- Click on Book Now button to book a ticket.
- URL: /api/movies



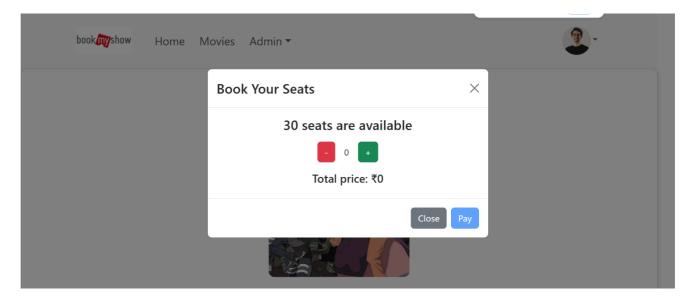
4. Show Booking Page

- Show the details about the movie.
- Shows all the available slots based on seat availability.
- Proceed Button to continue.
- URL: /api /book/{movield}



5. Seat Booking page

- A pop up to select number of tickets.
- User can't select more than available number of tickets.
- Button to submit.
- URL: /api /book/{movield}



6. Ticket Confirmation

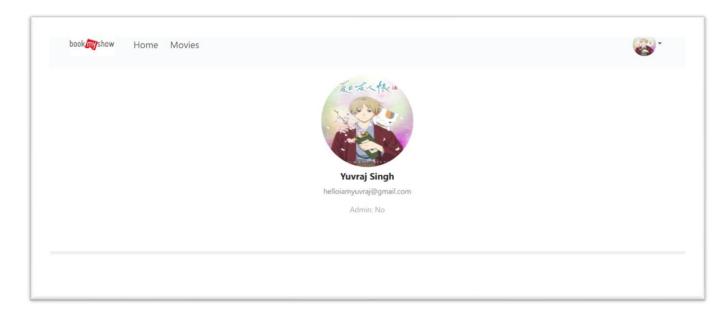
- Ticket Generation.
- URL: /api/ticket



7. Profile page

• Check User details.

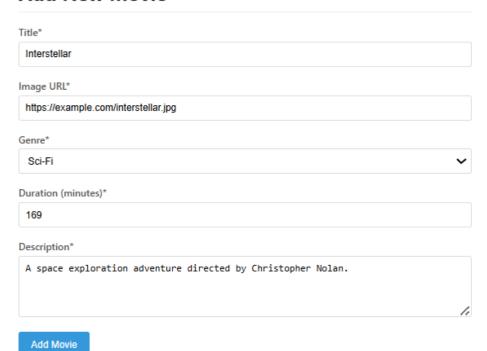
URL: /api/profile



8. Add Movie

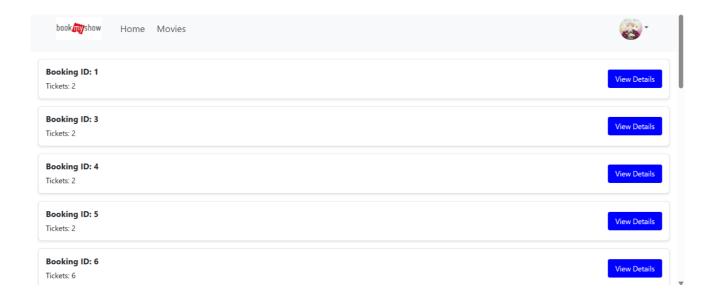
- Add a movie.
- o Only admin has access
- o URL: /api/movie/add

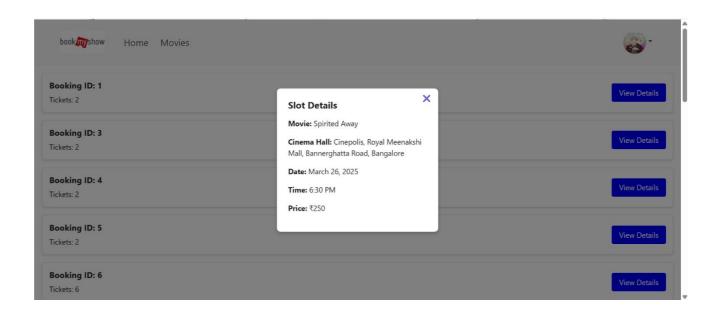
Add New Movie



9. Booking History

- Check booking history of user.
- When more details are required. Press the button to open more details.





API Documentation

(All endopints are secured with JWT)

1. Get All Movies

- Endpoint: GET /api/movies/
- Description: Returns a list of all available movies.
- Response Example:

```
[
 {
  "movield": 1,
  "title": "Inception",
  "imageUrl": "https://example.com/inception.jpg",
  "genre": "Sci-Fi",
  "duration": 148,
  "description": "A mind-bending thriller by Christopher Nolan."
 },
  "movield": 2,
  "title": "Spirited Away",
  "imageUrl": "https://example.com/spiritedaway.jpg",
  "genre": "Anime",
  "duration": 125,
  "description": "A Studio Ghibli masterpiece."
}
]
```

2. Get Movies by Genre

- Endpoint: GET /api/movie/?genre={genre}
- Description: Returns movies filtered by genre.
- Query Parameters:

genre (string) – Required. One of Anime, Horror, Action, RomCom.

• Example Request:

GET /api/movie/?genre=Sci-Fi

```
[
    "movield": 1,
    "title": "Inception",
    "imageUrl": "https://example.com/inception.jpg",
    "genre": "Sci-Fi",
    "duration": 148,
    "description": "A mind-bending thriller by Christopher Nolan."
}
]
```

3. Get Movie Details by ID

- Endpoint: GET /api/movie/:id
- Description: Fetches details of a specific movie by ID.
- Example Request:

```
GET /api/movie/1
```

```
"movield": 1,
"title": "Inception",
"imageUrl": "https://example.com/inception.jpg",
"genre": "Sci-Fi",
"duration": 148,
"description": "A mind-bending thriller by Christopher Nolan."
}
```

4. Get Available Slots for a Movie

- Endpoint: GET /api/movie/:id/slot/
- Description: Returns all available show slots for a given movie.
- Example Request:GET /api/movie/1/slot/

```
[
  "showId": 101,
  "movield": 1,
  "cinemaHall": "IMAX",
  "date": "2025-03-25",
  "timing": "18:30",
  "price": 250,
  "availableSeats": 50
 },
  "showId": 102,
  "movield": 1,
  "cinemaHall": "PVR",
  "date": "2025-03-26",
  "timing": "20:00",
  "price": 200,
  "availableSeats": 30
 }
]
```

5. Get Slot Details

• Endpoint: GET /api/slot/:id

• Description: Fetches details of a specific show slot by ID.

Example Request: GET /api/slot/101

```
{
    "showId": 101,
    "movieId": 1,
    "cinemaHall": "IMAX",
    "date": "2025-03-25",
    "timing": "18:30",
    "price": 250,
    "availableSeats": 50
}
```

6. Book a Ticket

- Endpoint: POST /api/slot/:id/book
- Description: Books tickets for a specific show and returns booking details.

```
Request Body:{
    "userId": 5,
    "tickets": 2
}
```

• Example Request:

POST /api/slot/101/book

```
{
  "bookingId": 1001,
  "userId": 5,
  "showId": 101,
  "tickets": 2,
}
```

7. Add a Movie

- Endpoint: POST api/movie/add
- Description: Adds a new movie to the database.

```
• Request Body
    "title": "Interstellar",
    "imageUrl": "https://example.com/interstellar.jpg",
    "genre": "Sci-Fi",
    "duration": 169,
    "description": "A space exploration adventure directed by Christopher Nolan."
   }
  Response
    "movield": 3,
    "title": "Interstellar",
    "imageUrl": "https://example.com/interstellar.jpg",
    "genre": "Sci-Fi",
    "duration": 169,
    "description": "A space exploration adventure directed by Christopher Nolan.",
    "message": "Movie added successfully"
   }
```

Database Schema

Movies

Column	Туре	Constraints
movield	INT	PRIMARY KEY
title	VARCHAR	NOT NULL
imageUrl	VARCHAR	NOT NULL
genre	VARCHAR	CHECK IN (Anime, Horror, Sci-Fi, RomCom)
duration	INT	NOT NULL
description	TEXT	NOT NULL

Shows

Column	Туре	Constraints
showId	INT	PRIMARY KEY
movield	INT	FOREIGN KEY -> Movies
cinemaHall	VARCHAR	NOT NULL
date	DATE	NOT NULL
timing	VARCHAR	NOT NULL
price	INT	NOT NULL
availableSeats	INT	NOT NULL

Bookings

Column	Туре	Constraints
bookingId	INT	PRIMARY KEY
userId	INT	FOREIGN KEY -> Users
showId	INT	FOREIGN KEY -> Shows
tickets	INT	NOT NULL

User

Column	Туре	Constraints
userld	INT	PRIMARY KEY
name	VARCHAR	NOT NULL
email	VARCHAR	NOT NULL
password	VARCHAR	NOT NULL
picture	VARCHAR	NOT REQUIRED
isAdmin	BOOL	NOT NULL

ER Diagram

