BookMyShow – Java Swing Desktop Application

Project Documentation

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1. Overview

This project is a Java-based desktop application that replicates the core functionalities of a ticket booking platform like BookMyShow. The application offers a user-friendly GUI for movie selection, seat booking, and user account management. It is developed using Java Swing for the frontend interface and MySQL Workbench as the backend database. Secure email authentication is integrated to validate new user registrations.

2. Technology Stack

Frontend: Java Swing (JDK 8.0.2)

Backend: Java, JDBC (Java Database Connectivity)

Database: MySQL Workbench 8.x

Email Service: JavaMail API

IDE: NetBeans IDE

OS Compatibility: Windows

3. Features & Modules

- User Registration and Login with Email Verification
- Movie Listing and Selection
- Seat Availability and Real-Time Booking
- Booking Confirmation and Record Insertion
- Admin Module for Movie Management (Optional)

4. Database Schema

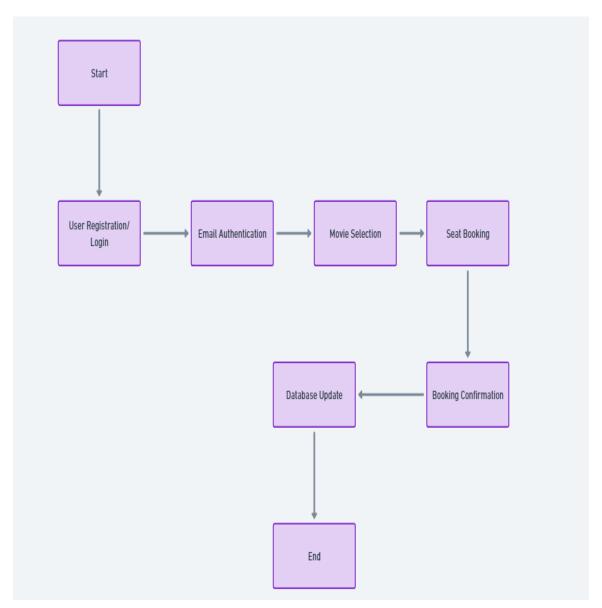
Users Table:

- user id (INT, PK)
- name (VARCHAR)
- email (VARCHAR)
- password (VARCHAR)

5. Tools Used

- JavaMail API
- JDBC API
- Java Swing Components (JLabel, JButton, JPanel, etc.)

6. Application Flow



7. Security Features

- Password hashing (e.g., SHA or bcrypt optional)
- Email verification



• PreparedStatement to avoid SQL Injection

8. Future Enhancements

- Payment Gateway Integration
- Mobile Version
- QR Code Ticket Generation
- Admin Analytics Dashboard

9. Screenshots

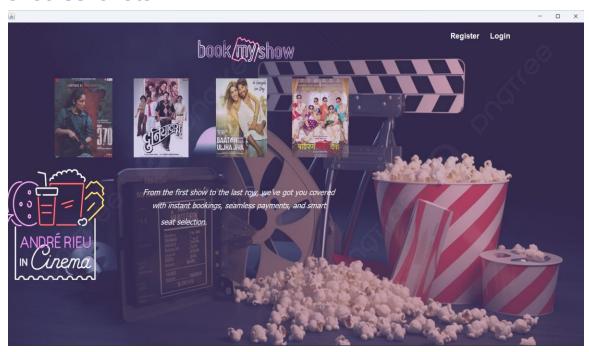


Figure 1 Home page



Figure 2 Registration Form

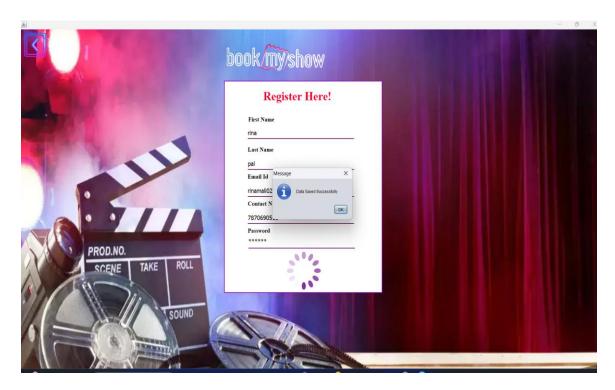


Figure 3 Registration Data Load Successfully

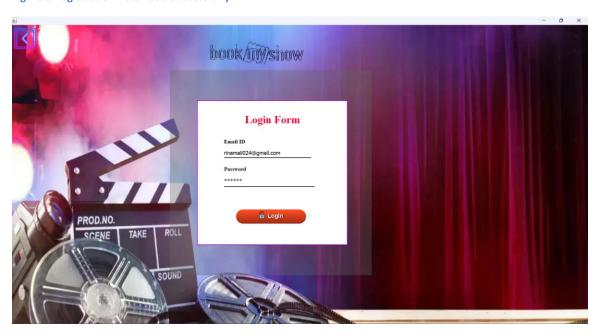


Figure 4 Login Form

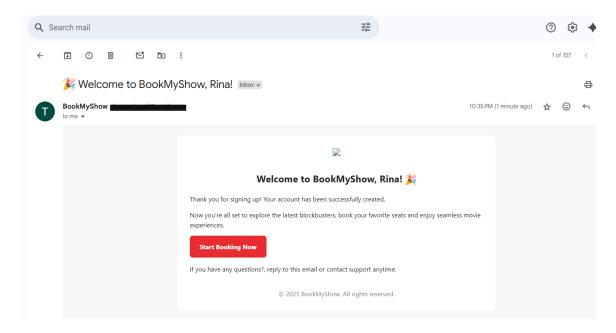


Figure 5 Email Authentication

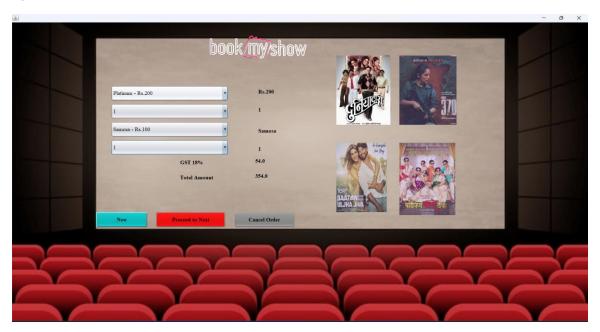


Figure 6 Select Seat Type & other information



Figure 7 Seat Confirm

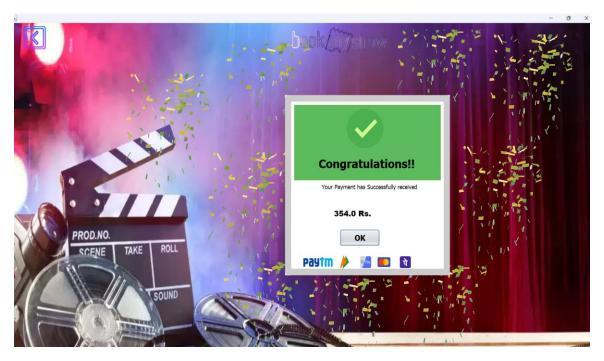


Figure 8 Payment Successfull

10. Conclusion

This Java Swing-based BookMyShow clone demonstrates a complete ticket booking system with real-time database integration and email authentication. It is a scalable, secure, and user-friendly application that can be further enhanced for academic or commercial use.

11. Appendix

- SQL Schema Files
- Source Code (Organized in MVC Structure)
- Email Configuration File