

Movie Ticket Booking Management System

A Synopsis Report

Submitted to



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INTRODUCTION

In the fast-paced world of today, where entertainment is a key aspect of our lives, the **Movie Ticket Booking Management System** emerges as a technological marvel, aimed at simplifying and enhancing the movie-going experience. This project is designed to address the challenges associated with traditional ticket booking methods by introducing a sophisticated, user-friendly platform that leverages cutting-edge technologies.

The Movie Ticket Booking Management System is a comprehensive solution that caters to the diverse needs of both movie enthusiasts and cinema operators. With the power of **Java** programming language at its core, the system ensures a robust and efficient foundation for seamless functionality. The use of **JavaFX** for the Graphical User Interface (**GUI**) ensures an aesthetically pleasing and intuitive user experience, making the ticket booking process a breeze.

The development of the Movie Ticket Booking Management System will follow an **agile methodology**, allowing for iterative development and continuous improvement. This approach ensures adaptability to evolving requirements and quick responses to user and team member's feedback.

Programming Language: Java

GUI Framework: JavaFX

Data Storage: SQLite and JSON.

Authentication: Email services for OTP verification.

FEATURES

1. User Registration Signup:

- Users can easily create an account by providing essential details, facilitating a personalized and enhanced movie booking experience.

2. User Login:

- Seamless access to user accounts, ensuring a secure and personalized interaction with the Movie Ticket Booking Management System.

3. Forgot Password:

- In case of forgotten passwords, users can swiftly recover access through a straightforward password reset mechanism.

4. OTP Verification for Sign Up and Forgot Password Flow:

- Secure user authentication is ensured through One-Time Passwords (OTPs) during both account creation and password recovery processes.

5. Location Selection:

- Users can effortlessly choose their preferred location, enhancing convenience and ensuring accurate movie and theatre recommendations.

6. Movie Selection:

- A vast array of movies is presented to users, complete with detailed information, reviews, and trailers for an informed decision-making process.

7. Theatre Selection:

- Users can explore and select their preferred theatre based on location, showtimes, and amenities, tailoring the movie-watching experience to their preferences.

8. Seat Selection in Theatre:

- A user-friendly interface allows for easy seat selection, ensuring an optimal viewing experience within the chosen theatre.

9. Details of the Movie:

- Comprehensive details about each movie, including cast, genre, and runtime, enriching the user's understanding of the film.

10. Online Ticket Booking Process:

- A streamlined and intuitive process allows users to select their movie, theatre, showtime, and seats, making online ticket booking a seamless and enjoyable experience.

11. Payment Methods Screen:

- Users can choose from a variety of secure and convenient payment methods, providing flexibility and ensuring a hassle-free transaction.

12. Payment Processing:

- Secure payment processing ensures the confidentiality of financial information, making transactions smooth and trustworthy.

13. Payment Bill Preview:

- Before confirming the transaction, users can preview the payment bill, ensuring transparency and accuracy.

14. Download Ticket:

- Users have the option to download their tickets, facilitating a paperless and eco-friendly ticketing system.

15. Generate QR Code for Ticket verification and authenticity:

- Each ticket is equipped with a QR code, enhancing security and allowing for quick and efficient verification at the theatre entrance.

16. Send Ticket via Email:

- An additional convenience feature enables users to receive their tickets via email, ensuring accessibility and ease of retrieval.

17. Update User Details:

- Users have the flexibility to modify their account information, ensuring accurate and up-to-date records.

18. See all booked tickets:

- A consolidated view allows users to track and manage all their booked tickets in one place.

19. See all cancelled tickets:

- Users can review their canceled tickets, providing a comprehensive overview of their transaction history. tickets in one place.

20. **Voice Recognition for Movie Searching:**

- Enhancing accessibility, the system incorporates a voice recognition feature allowing users to search for movies using speech-to-text technology. This innovative addition ensures a hands-free and convenient experience, catering to a diverse range of users with varying preferences and abilities.

HARDWARE / SOFTWARE REQUIREMENT

To ensure a seamless and efficient experience for users interacting with the Movie Ticket Booking Management System, their systems should meet the following software and hardware requirements:

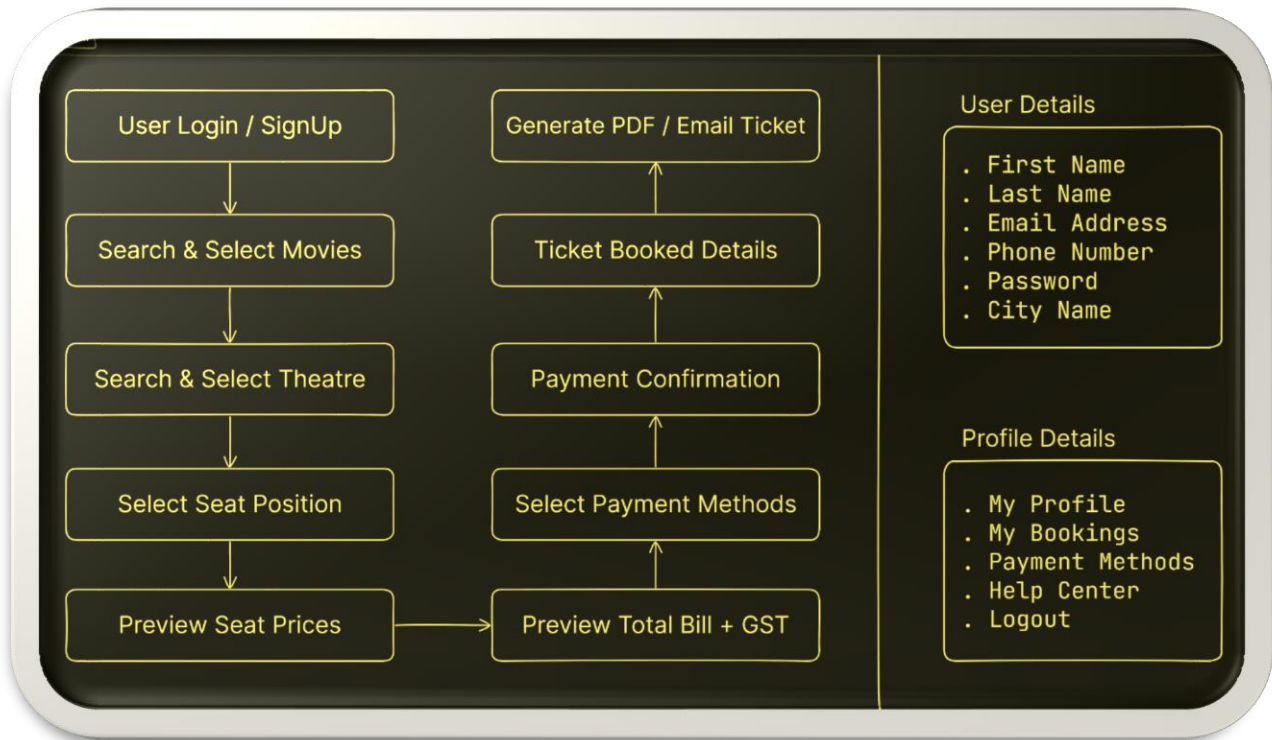
Software Requirements:

- **Operating System:** Windows 7 or later, macOS 10.12 or later, or a modern Linux distribution.
- **JRE:** Users need to have **Java Runtime Environment** 8 or later installed on their systems to run the Java-based application.
- **Internet:** A stable internet connection is essential for accessing real-time updates, completing online transactions, and receiving email notifications.

Hardware Requirements:

- **RAM:** A minimum of 2GB RAM is recommended for smooth navigation and responsiveness.
- **STORAGE:** Adequate storage space for storing downloaded tickets and temporary files created during the application's runtime.

PROJECT FLOW DIAGRAM



Thank You!