

Movie Ticket Booking System

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PROBLEM STATEMENT

In the traditional method, customers must visit theaters physically or stand in queues to purchase tickets, leading to inconvenience and time consumption. Additionally, manual record-keeping increases the risk of errors, overbooking, and mismanagement of seating arrangements.

ABSTRACT

The Movie Ticket Booking System is a web-based or mobile application designed to simplify the process of booking movie tickets. This system enables users to browse available movies, select showtimes, choose seats, and make payments online. By eliminating the need for physical ticket counters and long queues, it enhances user convenience and efficiency.

Automating ticket booking operations, the system reduces manual errors, prevents overbooking, and optimizes theater resource management. The Movie Ticket Booking System ultimately aims to offer a seamless, user-friendly, and efficient platform for both customers and theater operators.

INTRODUCTION

The system also benefits theater administrators by offering real-time seat management, automated booking records, and secure transaction processing. Additionally, it ensures data security and user authentication, protecting customer details and financial transactions.

By implementing this system, the movie-going experience is greatly enhanced for customers, while theaters can efficiently manage their operations. The Movie Ticket Booking System is a modern solution that meets the needs of today's entertainment industry, ensuring a fast, reliable, and convenient way to book movie tickets.

APPLICATIONS

- Online Ticket Booking for Cinemas
- Multiplex and Theater Management
- Mobile Application for On-the-Go Booking
- Corporate and Group Bookings

The Movie Ticket Booking System is an essential tool for modern cinema management, ensuring a smooth, efficient, and enjoyable movie-going experience for users while optimizing business operations.

FEATURES

- Movie Listings & Showtimes
- Seat Selection
- Online Ticket Booking
- Secure Payment Gateway
- E-Tickets & QR Code Generation
- Booking History & Order Management
- Cancellation & Refund Policy

CODE EXPLANATION

Showtime Class

The Showtime class represents a movie showtime with the following attributes:

MovieName: The name of the movie.

Time: The showtime in HH:MM format.

Node Class (Binary Search Tree Node)

The Node class represents a node in the BST.

Attributes:

Showtime showtime: Stores the showtime.

Node left, ~~right~~: References to left and right child nodes.

Constructor:

Node(Showtime showtime): Initializes the node with a showtime and sets left and right children to null.

Main Class: MovieTicket Booking System

Key Components:

Add Showtime: Prompts the user for movie name and time, then adds it to the BST.

Search Showtime: Asks for time and searches in the BST.

Delete Showtime: Deletes a showtime by time.

Display All Showtimes: Displays all available showtimes in sorted order.

Exit: Closes the scanner and terminates the program.

ADVANTAGES

- Easy Data Management
- Efficient Sorting and Searching
- Avoids Duplicate Entries
- Faster Booking Process
- Customization & Reusability

CONCLUSION

The Movie Ticket Booking System efficiently manages movie showtimes using a Binary Search Tree (BST), ensuring quick insertion, searching, and deletion of showtimes. The Showtime class plays a crucial role by representing individual showtimes in a structured manner, enabling easy sorting and retrieval.

THANK YOU !

