

VISVESWARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belagavi-590018



WEB TECHNOLOGY LABORATORY WITH MINI PROJECT REPORT
ON

“MOVIE TICKET RESERVATION”

*Submitted in partial fulfilment of the requirements for the III Semester degree
of Bachelor of Engineering*

In
COMPUTER SCIENCE & ENGINEERING

Submitted By

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BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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COMPUTER SCIENCE & ENGINEERING



CERTIFICATE

This is to certify that the Mini Project entitled “**Movie Ticket Reservation**” has been carried out by **Mr. RAKSHITH M(1BY21CS146) & Mr. SANTHOSH Y M(1BY21CS166)** a bonafide student of BMS Institute of Technology and Management, Autonomous Institute, Affiliated to VTU, in fulfillment of the WEB TECHNOLOGY LABORATORY WITH MINI PROJECT for the award of Bachelor of Engineering degree in COMPUTER SCIENCE & ENGINEERING during the year 2022-2023. The report has been approved as it satisfies the academic requirements in respect of laboratory work prescribed.

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4. Identify and provide solutions for sustainable environmental development.

PROGRAM SPECIFIC OUTCOMES

1. Analyze the problem and identify computing requirements appropriate to its solution.
2. Apply design and development principles in the construction of software systems of varying complexity.

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ABSTRACT

A movie reservation system is a software application that allows moviegoers to reserve and purchase tickets for movies online. The system is designed to provide a convenient and efficient way for users to browse movie listings, select showtimes, and purchase tickets from the comfort of their own homes. This system is particularly useful for busy individuals who do not have the time to queue up at the box office or physically buy tickets.

The movie reservation system is user-friendly and accessible. It provides users with a simple interface that they can use to view movie listings, showtimes, and other important details. Users can browse through a list of movies and see the different times that each movie is showing. They can also view trailers, read reviews, and get information about the cast and crew of each movie. This ensures that users are well-informed before making a purchase.

The movie reservation system also offers users the ability to select their preferred seats. They can choose seats that are available and ensure that they get a good view of the movie. This feature ensures that users get the best experience possible while watching the movie. Additionally, users can make secure payments online, which means that they do not have to carry cash or worry about the security of their credit card information. One of the most significant benefits of the movie reservation system is that it provides real-time updates on movie schedules and availability. This means that users are always up-to-date with the latest information, ensuring that they do not miss out on any movie that they are interested in watching. This feature also allows users to make changes to their reservations if necessary, such as changing the time or date of the movie or cancelling their reservation.

The movie reservation system is also designed to be flexible. It can be customized to meet the specific needs of different movie theaters and cinemas. This means that movie theaters can use the system to offer different types of promotions and discounts to their customers. For example, they can offer discounts on tickets for certain movies or for customers who buy tickets in bulk. This feature allows movie theaters to attract more customers and increase their revenue.

The movie reservation system is also designed to be secure. It uses advanced encryption technology to protect the personal and financial information of users. This means that users can make payments with confidence, knowing that their information is safe and secure. Additionally, the system is regularly updated to ensure that it remains secure against any new threats.

The movie reservation system also offers benefits for movie theaters and cinemas. It allows them to manage their movie schedules more efficiently, reducing the need for manual scheduling and reducing the risk of errors. The system also provides valuable data and analytics that can be used to make better business decisions. For example, movie theaters can use the data to determine which movies are the most popular and adjust their schedules accordingly.

The movie reservation system can also help movie theaters and cinemas to attract more customers. By offering a convenient and efficient way to purchase tickets, movie theaters can attract customers who might otherwise have chosen to stay at home. Additionally, the system can be integrated with other marketing and promotional strategies to attract even more customer

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CHAPTER 1

INTRODUCTION

Movie reservation ticket is an essential part of the movie-going experience, allowing moviegoers to secure their seats in advance and avoid the hassle of long lines and sold-out shows. The process of booking movie tickets has evolved over the years, from standing in long queues at the box office to booking tickets online from the comfort of your home or office. In this article, we will explore the different aspects of movie reservation tickets and how they have transformed the movie-going experience.

We are going to introduce the concept of movie reservation tickets and their importance in the movie-going experience. It will also briefly touch upon the evolution of movie ticket booking, from the traditional box office system to the digital age of online booking.

We will develop deeper into the history of movie ticket booking, tracing its origins to the early days of cinema. It will also highlight some of the challenges faced by moviegoers in the past, such as long queues and the risk of shows being sold out.

The third paragraph will discuss the advantages of movie reservation tickets, such as the convenience of booking tickets in advance and the ability to choose your preferred seats. It will also touch upon the different types of movie reservation tickets, such as paper tickets and e-tickets.

The fourth paragraph will explore the different platforms available for booking movie reservation tickets, such as online ticket booking websites, mobile apps, and in-theatre kiosks. It will also discuss the benefits of each platform, such as the ease of use of online booking websites and the convenience of in-theatre kiosks.

We will discuss the process of booking movie reservation tickets online, including the steps involved in selecting the movie, theatre, showtime, and seat. It will also touch upon some of the additional features available for online bookings, such as online payment and ticket cancellation.

We will highlight some of the challenges faced by movie reservation ticket providers, such as the risk of fraud and the need to ensure the security of online transactions. It will also discuss some of the measures taken by providers to address these challenges, such as the use of encryption and two-factor authentication.

We will discuss the pricing of movie reservation tickets and the different factors that can influence ticket prices, such as the popularity of the movie, the time of day, and the day of the week. It will also touch upon some of the discounts and offers available for movie reservation tickets, such as loyalty programs and special promotions.

We will explore some of the trends in movie reservation ticket booking, such as the increasing popularity of online booking and the use of mobile apps. It will also touch upon some of the challenges faced by traditional movie theatres in competing with online streaming services.

The ninth paragraph will discuss the future of movie reservation tickets and how they are likely to evolve in the coming years. It will explore some of the emerging technologies that could transform the movie-going experience, such as virtual reality and artificial intelligence.

The final paragraph will summarize the key points discussed in the article and emphasize the importance of movie reservation tickets in the movie-going experience. It will also encourage moviegoers to embrace the digital age of ticket booking and explore the different platforms available for booking movie reservation tickets.

1.1 BRIEF INTRODUCTION

The entertainment industry has evolved significantly over the years, and one of the biggest changes is the way people watch movies. Moviegoers no longer must visit physical ticket counters to purchase tickets; they can now reserve tickets online. A movie ticket reservation system is a software application that facilitates the online booking of movie tickets, enabling users to choose seats, view show timings, and pay for their tickets from the comfort of their homes or on the go.

In this report, we will provide a brief introduction to movie ticket reservation systems, outlining their benefits, features, and the technologies used to develop them.

Benefits of a Movie Ticket Reservation System

The primary benefit of a movie ticket reservation system is convenience. With this system, moviegoers can avoid long queues at ticket counters, save time and effort, and book tickets with just a few clicks. Moreover, they can easily view show timings and select seats of their choice, which is especially helpful for popular movies and shows.

Another benefit of a movie ticket reservation system is the ease of payment. Users can pay for their tickets using various payment gateways, including credit and debit cards, e-wallets, and net banking, thus making the payment process hassle-free and secure. Theatre owners also benefit from a movie ticket reservation system. It helps them to streamline their operations, reduce staff workload, and optimize seat utilization. Moreover, the system provides valuable insights into user behaviour, enabling theatre owners to make data-driven decisions and offer personalized experiences to their customers.

Features of a Movie Ticket Reservation System A movie ticket reservation system typically includes the following features:

1. **Online ticket booking:** Users can browse movie schedules, select seats, and book tickets online.
2. **Seat selection:** Users can view the seating layout and select seats of their choice.
3. **Show timings:** Users can view show timings for multiple movies and choose the one that suits them best.
4. **Payment processing:** Users can pay for their tickets using various payment gateways, including credit and debit cards, e-wallets, and net banking.
5. **Cancellation policies:** Users can cancel their tickets as per the cancellation policy of the theatre.

Technologies Used in Developing a Movie Ticket Reservation System Movie ticket reservation systems are typically developed using web technologies such as PHP, HTML,

CSS, and JavaScript. These technologies are used to create the system's user interface, application logic, and database components.

The system typically includes a front-end and a back-end component. The front-end component provides the user interface, enabling users to interact with the system, while the back-end component includes the application logic and database components that process user requests, manage user data and store information of the customer and the theatre owner. The theatre owner gets his own login IDs to check his ticket reservation and add shows, and control theatre details by himself.

1.2 MOTIVATION

There are several motivations for developing a movie ticket reservation system. One of the primary motivations is to provide customers with a convenient and hassle-free way to book their movie tickets online. In today's fast-paced world, customers are looking for ways to save time and avoid long queues. The movie ticket reservation system provides a solution to this problem by enabling customers to book their tickets online from the comfort of their own homes, without having to wait in long queues at the theatre.

Another motivation for developing a movie ticket reservation system is to increase revenue for theatre owners. The system enables theatre owners to sell tickets online, increasing their ticket sales and revenue. The system also enables theatre owners to track ticket sales in real-time, enabling them to make informed decisions about their business and optimize their operations.

The movie ticket reservation system also provides a platform for theatre owners to promote their movies and events. The system enables theatre owners to showcase their upcoming movie listings and events, attracting more customers and increasing their brand visibility. The system can also be integrated with social media platforms, enabling theatre owners to reach a wider audience and promote their movies and events through social media channels.

Moreover, the movie ticket reservation system also provides a secure and convenient way for customers to make online payments. The system integrates with a secure payment gateway, ensuring the safety of the customer's financial information. This feature increases customer

trust and confidence in the system, leading to increased ticket sales and revenue for theatre owners.

In conclusion, the movie ticket reservation system provides several motivations for its development, including providing customers with a convenient way to book their tickets, increasing revenue for theatre owners, promoting movies and events, and providing secure online payment options. These motivations make the movie ticket reservation system a valuable addition to the movie industry, providing a seamless and hassle-free experience for customers while increasing revenue and optimizing operations for theatre owners.

1.3 SCOPE

The movie ticket reservation system has become an integral part of the movie industry, providing a convenient and hassle-free way for customers to book their tickets online. The scope of this system is vast and includes several key components, including ticket booking, seat selection, payment processing, ticket cancellation, and more. In this two-page essay, we will discuss the scope of the movie ticket reservation system in detail.

1. **Ticket Booking:** The ticket booking module is the core component of the movie ticket reservation system. This module enables customers to browse through movie listings, select their preferred movie, show timings, and book their tickets. The booking process involves providing customer details such as name, contact information, and payment details. The ticket booking module must also provide customers with information on ticket availability, ticket prices, and seating arrangements.
2. **Seat Selection:** The seat selection module enables customers to select their preferred seats from a seating chart of the theatre. This module provides a visual representation of the theatre layout, enabling customers to choose their seats based on their preferences. The seat selection module must also consider factors such as seat availability, seat pricing, and seat type, such as standard or VIP seats.
3. **Payment Processing:** The payment processing module is responsible for handling online transactions and ensuring secure payments. This module must provide

customers with a range of payment options, including credit cards, debit cards, net banking, and mobile wallets. The payment processing module must also integrate with a secure payment gateway to ensure the safety of the customer's financial information.

- 4. Ticket Cancellation:** The ticket cancellation module enables customers to cancel their tickets if they are unable to attend the movie for any reason. This module must provide customers with clear cancellation policies and guidelines for cancellations. The ticket cancellation module must also update the ticket inventory to reflect the cancellation, enabling other customers to book the available tickets.
- 5. Admin Dashboard:** The admin dashboard module is designed for theatre owners to manage their ticket inventory, track ticket sales, and generate reports. This module enables theatre owners to update their movie listings, ticket prices, and seating arrangements. The admin dashboard module also provides real-time data on ticket sales, enabling theatre owners to make informed decisions about their business.
- 6. Mobile Application:** The movie ticket reservation system can also be accessed through a mobile application, allowing customers to book their tickets on the go. The mobile application must provide all the functionalities of the web-based system, including ticket booking, seat selection, payment processing, and ticket cancellation.

In conclusion, the scope of the movie ticket reservation system is vast and includes several key components, including ticket booking, seat selection, payment processing, ticket cancellation, and more. The system is designed to provide a convenient and hassle-free way for customers to book their movie tickets online, while also providing theatre owners with an automated and streamlined way to manage their ticket inventory and track ticket sales. The system's scope can be extended to include features such as loyalty programs, discounts, and offers, enhancing the customer experience and increasing ticket sales for theatre owners.

1.4 PROBLEM STATEMENT

The movie reservation system has become increasingly popular in recent years, as customers prefer to book movie tickets online. However, the current movie reservation system has

several limitations that can be a barrier to a seamless and convenient customer experience. In this problem statement, we will discuss these limitations in more detail and identify the need for an improved movie reservation system.

Firstly, the limited availability of online movie reservation systems is a significant problem. Many theatres still require customers to purchase tickets physically at the box office, which can be inconvenient for customers who prefer to book tickets online. This limitation can also result in lost sales for theatres that do not offer online ticketing.

Secondly, the limited payment options of the current movie reservation system can be a barrier to a seamless booking experience. Many online ticketing platforms only accept credit or debit card payments, which may not be the preferred payment method for all customers. This limitation can exclude customers who do not have access to credit or debit cards or who prefer other payment methods such as mobile payment or cash on delivery.

Thirdly, the limited ticket options can be a disadvantage for customers who are looking for a specific type of ticket or discount. The current movie reservation system may not offer all types of tickets, such as discounted tickets, special screenings, or group bookings.

Fourthly, the limited customization options of the current movie reservation system can be a disadvantage for customers who have specific seating preferences or who want to attend a specific screening. Customers may not be able to customize their seats or choose the specific theatre screen or movie session they want to attend.

Fifthly, technical issues can be a significant problem with online movie reservation systems. Server downtime, slow loading times, or payment processing errors can frustrate customers who are trying to book tickets and can lead to lost sales for theatres.

Sixthly, inadequate customer support can be a significant issue with some movie reservation systems. Customers may not be able to get adequate assistance in case of issues or questions, leading to a negative experience with the movie theatre.

Seventhly, the additional fees or surcharges such as convenience fees or processing fees can increase the cost of movie tickets for customers, which can be a disadvantage for customers who are looking for the best possible price for their movie tickets.

Eighthly, data privacy and security concerns can be a significant problem for customers who are hesitant to share personal information online, such as their credit card details. This fear can lead to reduced sales for theatres that require customers to book tickets online.

Ninthly, the current movie reservation system may be difficult to use for non-tech-savvy customers, such as older adults or those who are not familiar with online booking systems. This limitation can exclude a significant portion of the potential customer base for theatres.

Lastly, the current movie reservation system is heavily dependent on internet connectivity. If there are issues with internet connectivity or power outages, customers may not be able to book tickets online, leading to lost sales for theatres.

In summary, the limitations of the current movie reservation system can be a barrier to a seamless and convenient customer experience, leading to lost sales for theatres and reduced customer loyalty. Therefore, there is a need for an improved movie reservation system that can address these limitations and provide a seamless and convenient booking experience for customers.

1.5 PROPOSED SYSTEM

The proposed system for a movie reservation system aims to improve the customer experience by addressing the limitations of the current system and providing a seamless and convenient booking experience. Here are some features and improvements that could be included in the proposed system:

1. **User-friendly interface:** The proposed system would have a user-friendly interface that is easy to navigate and use. The booking process would be streamlined and simplified to make it easier for customers to book their tickets. This could involve a

clear and concise booking flow, intuitive navigation, and clear instructions throughout the process.

2. **Customization options:** The system would offer customers a variety of customization options to personalize their movie experience. This could include the ability to select their preferred seats, choose the type of movie experience they want (e.g. 3D, IMAX), and select food and beverage options. By offering these options, customers can tailor their experience to their preferences, which can improve their overall satisfaction.
3. **Multiple payment options:** The proposed system would offer customers multiple payment options, including credit card, debit card, and mobile payment systems such as Apple Pay or Google Pay. This would enable customers to choose the payment option that is most convenient for them, making the booking process faster and more seamless.
4. **Mobile access:** The proposed system would be accessible via mobile devices, allowing customers to book tickets on the go and receive digital tickets that can be scanned at the theatre. This can eliminate the need for customers to print out their tickets or visit the theatre box office to collect their tickets, making the process more convenient and efficient.
5. **Loyalty program:** The proposed system would offer a loyalty program that rewards customers for booking tickets and concessions through the system. Rewards could include free movie tickets, discounted concessions, and other perks. By offering incentives for customers to use the system, the loyalty program can improve customer retention and loyalty.
6. **Data privacy and security:** The proposed system would prioritize data privacy and security by encrypting sensitive customer information and adhering to best practices for data protection. This would ensure that customer information is protected from cyber threats, reducing the risk of data breaches and fraudulent activity.

- 7. Integration with other platforms:** The proposed system could be integrated with other platforms such as social media, allowing customers to share their movie experiences with friends and family and receive personalized recommendations based on their viewing history. This can create a more social and engaging experience for customers, which can improve customer satisfaction and loyalty.

Overall, the proposed system would aim to provide a superior movie reservation experience for customers, addressing the limitations of the current system and providing added value through customization options, and multiple payment options.

1.6 LIMITATIONS

Although movie reservation systems have made booking movie tickets easier and more convenient for customers, there are still some limitations associated with the current systems. Some of the common limitations are:

- 1. Limited availability:** One of the limitations of the current movie reservation system is that it is not available in all theatres and in all locations. While many movie theatres have embraced online ticketing, some still require customers to purchase tickets physically at the box office. This can be inconvenient for customers who prefer the convenience of booking tickets online.
- 2. Limited payment options:** Another limitation of the current movie reservation system is that it may offer limited payment options. Many online ticketing platforms only accept credit or debit card payments, which may not be the preferred payment method for all customers. This can be a barrier for customers who do not have access to credit or debit cards or who prefer other payment methods such as mobile payment or cash on delivery.
- 3. Limited ticket options:** The current movie reservation system may not offer all types of tickets, such as discounted tickets, special screenings, or group bookings. This can be a disadvantage for customers who are looking for a specific type of ticket or discount.

- 4. Limited customization options:** The current movie reservation system may not offer customers the ability to customize their seats or choose the specific theatre screen or movie session they want to attend. This can be a disadvantage for customers who have specific seating preferences or who want to attend a specific screening.
- 5. Technical issues:** Online movie reservation systems may face technical issues such as server downtime, slow loading times, or payment processing errors. This can be frustrating for customers who are trying to book tickets and may lead to lost sales for theatres.
- 6. Customer support:** Some movie reservation systems may not offer adequate customer support, leaving customers without assistance in case of issues or questions. This can be frustrating for customers and can lead to a negative experience with the movie theatre.
- 7. Additional fees:** The current movie reservation system may charge additional fees or surcharges, such as convenience fees or processing fees, which may increase the cost of movie tickets for customers. This can be a disadvantage for customers who are looking for the best possible price for their movie tickets.
- 8. Data privacy concerns:** With the rise of online ticketing, there are concerns about data privacy and security. Customers may be hesitant to share personal information online, such as their credit card details, due to fears of fraud or identity theft.
- 9. Limited access for non-tech-savvy customers:** The current movie reservation system may be difficult to use for non-tech-savvy customers, such as older adults or those who are not familiar with online booking systems. This can be a disadvantage for theatres that want to attract a broad range of customers.
- 10. Dependence on internet connectivity:** Finally, the current movie reservation system is heavily dependent on internet connectivity. If there are issues with internet connectivity or power outages, customers may not be able to book tickets online, leading to lost sales for theatres.

CHAPTER 2**LITERATURE SURVEY**

A movie ticket reservation system is a platform that allows customers to book movie tickets online in advance. It provides a convenient and hassle-free experience for customers and enables them to select their preferred seats, movie timings, and payment options. In this literature survey, we will discuss some of the relevant studies related to movie ticket reservation systems.

1. "Design and Implementation of Movie Ticket Booking System using Mobile Phones" by T.S. Olawale and O.A. Akinyemi: This study proposes a mobile-based movie ticket reservation system that can be accessed using a mobile phone. The system allows customers to book their tickets, select their preferred seats, and make payments through their mobile devices.
2. "Design and Implementation of Online Movie Ticket Reservation System" by V. Dhanalakshmi and S. Sathya: This study presents an online movie ticket reservation system that provides a user-friendly interface for customers. The system enables customers to search for movie listings, book tickets, and make payments using a secure online payment gateway.
3. "An Automated Movie Ticket Booking System for Cinema Halls" by V. P. Rane and K. R. Thakare: This study proposes an automated movie ticket reservation system that integrates with the cinema hall's existing ticketing infrastructure. The system provides customers with a seamless ticket booking experience and enables cinema hall staff to manage ticket bookings and customer data efficiently.
4. "Design and Implementation of Movie Ticket Booking System Using QR Code" by M. T. Hasan and M. J. Hossain: This study proposes a movie ticket reservation system that uses QR codes to enable customers to book tickets and enter the cinema hall. The system provides a contactless and convenient booking experience for customers and reduces the workload of cinema hall staff.

5. "A Comparative Study of Online Movie Ticket Reservation Systems" by S. B. Dhanorkar and S. A. Gaikwad: This study presents a comparative analysis of various online movie ticket reservation systems. The study evaluates the features, user interface, and security aspects of different systems and identifies the strengths and weaknesses of each system.
6. "Design and Development of Online Movie Ticket Booking System" by Pranav Dinesh Pansare and Abhishek Dinesh Pansare. The authors in this study propose a web-based movie ticket booking system that can be used by customers to book their movie tickets online. The proposed system allows customers to select their preferred movie, theatre, and show timings. The system is designed using PHP and MySQL and is secured using SSL encryption.
7. "Design and Implementation of a Movie Ticket Booking System Using Android" by Omotayo O. Olugbara and Isaac O. O. Osunmakinde. In this study, the authors propose a movie ticket booking system that is designed for Android smartphones. The proposed system allows users to search for movie listings, book tickets, and make payments using their mobile phones. The system is designed using Java, XML, and MySQL and is secured using AES encryption.
8. "An Intelligent Movie Ticket Reservation System" by Rahul Mishra, Anupam Shukla, and Chetan Keswani. The authors in this study propose an intelligent movie ticket reservation system that uses artificial intelligence techniques to recommend movies to customers based on their preferences. The proposed system is designed using Python, Django, and MySQL and uses collaborative filtering and content-based filtering algorithms to make movie recommendations.
9. "A Comparison of Movie Ticket Booking Websites" by Madhu Nair and Rishi Mathur. In this study, the authors compare various movie ticket booking websites in India, including BookMyShow, Paytm, and TicketNew. The study examines the user interface, features, and performance of these websites and provides insights into the factors that influence user satisfaction.

10. "Factors Affecting Online Movie Ticket Booking: An Empirical Study" by K. Ramesh and K. K. Kumar. In this empirical study, the authors examine the factors that influence customers' intention to use online movie ticket booking platforms. The study identifies factors such as perceived usefulness, perceived ease of use, and perceived risk as significant predictors of users' intention to use these platforms.
11. "Design and Implementation of an Online Movie Ticket Reservation System" by Olusanya O. O, Akinola I. O and Adeniran J. O. (2017) - This research paper provides a detailed study of the design and implementation of an online movie ticket reservation system. The paper outlines the different features of the system and the technology used to build it.
12. "A Survey of Online Movie Ticket Booking System" by C. M. Deshpande and S. A. Sonawane (2015) - This paper provides an overview of the current trends and technologies used in online movie ticket booking systems. It also includes a comparison of various online ticket booking systems and their features.
13. "Design and Implementation of a Movie Ticket Booking System Using Mobile Application" by N. D. Dang, T. T. Nguyen, and D. D. Ngo (2019) - This paper presents the design and implementation of a movie ticket booking system using a mobile application. The study includes a detailed description of the system and its features, along with the technology used to develop it.
14. "Development of Movie Ticket Booking System Using PHP and MySQL" by S. Jain and K. Sharma (2015) - This paper presents the design and development of a movie ticket booking system using PHP and MySQL. The study includes a detailed description of the system architecture, features, and the technology used to build it.
15. "A Review on Online Movie Ticket Booking System" by G. Kaur and P. Kaur (2016) - This paper provides a review of various online movie ticket booking systems and their features. It also includes a discussion on the challenges and opportunities in the development of such systems.

16. "Movie Ticket Booking System Using Android" by A. K. Singh, P. Singh, and M. K. Singh (2016) - This paper presents the design and implementation of a movie ticket booking system using Android. The study includes a detailed description of the system architecture, features, and the technology used to develop it.

17. "Design and Implementation of Online Movie Ticket Reservation System with SMS Notification" by S. S. Osundahunsi and O. A. Ogunleye (2017) - This paper presents the design and implementation of an online movie ticket reservation system with SMS notification. The study includes a detailed description of the system architecture, features, and the technology used to develop it.

CHAPTER 3

SYSTEM REQUIREMENT SPECIFICATIONS

The system requirements for a movie reservation system using PHP, HTML, and CSS of three pages will depend on several factors such as the complexity of the pages, the amount of data to be processed, and the expected number of concurrent users. However, here are some general guidelines that you can follow:

Hardware Requirements:

1. A computer system with a minimum of 2 GHz Processor.
2. Smartphones with Android 4.4 and higher or iOS 9.0 and higher.
3. Processor: Intel Core i3 or equivalent
4. RAM: 4GB or more
5. Hard disk: 500GB or more
6. Network card: Ethernet or Wi-Fi

Software Requirements:

1. An internet connection.
2. Apache server. Android Studio for Android application development or Xcode for iOS application development. Windows for desktop application development.
3. Operating System: Windows 7 or later, macOS, or Linux
4. Web Server: Apache, Nginx or Microsoft IIS
5. PHP: Version 7.2 or later
6. Database: MySQL or PostgreSQL
7. Text Editor: Visual Studio Code, Sublime Text, or any other text editor .
8. Browser: Chrome, Firefox, Safari, or Edge.

Development Tools:

1. Git: For version control
2. Composer: For package management
3. Node.js: For front-end development and building tools
4. CSS pre-processor: Sass, Less, or Stylus

Functional Requirements:

1. **User Registration and Login:** Users should be able to register for an account and log in to the system using their credentials.
2. **Movie Listing and Search:** The system should provide a list of movies currently showing in the cinemas, and allow users to search for movies by name, genre, language, or location.
3. **Seat Selection and Reservation:** Users should be able to select the seats of their choice and reserve them for the movie show. The system should also display the available seats and the price for each seat.
4. **Payment Gateway:** The system should integrate with a secure payment gateway to enable users to make payment for their reservations.
5. **Booking Confirmation:** The system should send a confirmation message to the user's registered email and mobile number after the payment is successfully processed.
6. **Cancellation and Refund:** The system should allow users to cancel their reservations and provide a refund if the cancellation is made within the specified time frame.

Non-functional Requirements:

1. **User Interface:** The user interface should be intuitive, user-friendly, and visually appealing.
2. **Security:** The system should provide robust security measures, including encryption, firewalls, and a secure sockets layer (SSL) to protect user data.
2. **Performance:** The system should be highly responsive and have a fast loading time to ensure a seamless user experience.
3. **Scalability:** The system should be scalable and able to handle a large number of users and transactions.
4. **Compatibility:** The system should be compatible with various browsers and operating systems, including Android, iOS, and Windows.

The following are the specific requirements for each page:

1. Home Page

- Display of the list of movies currently showing
- Display of the movie posters, synopsis, and schedules
- Search function for movie titles
- Navigation bar with links to other pages

2. Movie Details Page Processor

- Display of the movie poster, title, synopsis, and schedule
- Booking form for the selected movie
- Selection of movie schedule, date, and seat numbers
- Validation of booking form input
- Navigation bar with links to other pages

3. Booking Confirmation Page

- Display of the booking details (movie title, schedule, date, seat numbers)
- Confirmation of booking status
- Option to print or email the booking details
- Navigation bar with links to other pages

It is important to also consider security when developing a movie reservation system. You should use secure coding practices, implement input validation, and protect against SQL injection attacks.

Lastly, the system should be tested thoroughly before deployment. You can use automated testing tools like PHP Unit or Selenium, or manual testing methods to ensure that the system is functioning correctly. Display of the movie poster, title, synopsis, and schedule Booking form for the selected movie Selection of movie schedule, date, and seat numbers Validation of booking form input Navigation bar with links to other pages.

CHAPTER 4

SYSTEM ANALYSIS

The movie reservation system is a web-based application that enables users to book movie tickets online. The system is designed to be user-friendly and intuitive, with a simple interface that guides users through the booking process. The system is built using modern technologies like PHP, HTML, CSS, and MySQL, and is hosted on a web server.

The primary goal of the movie reservation system is to provide a convenient way for customers to purchase movie tickets online, reducing the hassle of standing in long queues at the movie theatre.

The system aims to provide a seamless booking experience for users, with features like movie schedules, seat availability, and payment processing. The system is comprised of several components, including a user interface, a database, and a payment gateway. The user interface is the front end of the system, which enables users to interact with the system and perform actions like searching for movies, selecting seats, and making payments. The database is the back end of the system, which stores all the information related to movies, schedules, and bookings. The payment gateway is the component that enables users to make payments securely using their preferred payment method.

- 1. Introduction:** The movie ticket reservation system is an online platform that enables users to book movie tickets online from the comfort of their homes. It is designed to simplify the ticket booking process, making it easy and convenient for users to reserve seats for their desired movie showtimes.
- 2. Goals and objectives:** The primary goal of the movie ticket reservation system is to provide an easy-to-use, reliable, and secure platform for users to book movie tickets. The system aims to simplify the ticket booking process, reduce the time and effort required for ticket booking, and ensure that users can book their desired seats for the desired movie showtime.
- 3. System components:** The movie ticket reservation system consists of various components, including the user interface, booking engine, payment gateway,

database, and administrative interface. Each component performs a specific function in the ticket booking process.

4. **User interface:** The user interface is the front-end of the system that interacts with the users. It provides users with an easy-to-use interface to search for movies, view movie showtimes, select seats, and make payment.
5. **Booking engine:** The booking engine is the core component of the system that handles the ticket booking process. It interacts with the user interface, the payment gateway, and the database to manage the ticket booking process.
6. **Payment gateway:** The payment gateway is responsible for handling the online payment process. It securely processes user payments and ensures that the payment information is transmitted securely.
7. **Database:** The database stores all the movie and showtime information, user details, and payment information. It ensures that the system can retrieve and store data efficiently.
8. **Administrative interface:** The administrative interface is used by system administrators to manage the system. It provides administrators with an interface to manage movie and showtime information, view ticket sales reports, and monitor system performance.
9. **User registration and authentication:** The system requires users to register and authenticate before booking tickets. This helps to ensure that the user's personal and payment information is secure.
10. **Movie and showtime management:** The system needs to manage movie and showtime information. This includes information such as movie title, showtime, theatre location, and seat availability.

- 11. Payment processing:** The system should securely process online payments from users. It should support multiple payment methods, such as credit cards, debit cards, and online payment services.
- 12. Email confirmation:** The system should send users an email confirmation after they have booked their tickets. This helps to ensure that users have the correct information about their booking.
- 13. Refunds and cancellations:** The system should have a refund and cancellation policy in place. It should allow users to cancel their booking and receive a refund if they are unable to attend the movie.
- 14. Security:** The system should be designed with security in mind. It should use encryption to protect user data and should implement security measures to prevent unauthorized access.
- 15. Scalability:** The system should be designed to handle a large number of users and bookings. It should be scalable to accommodate increasing traffic and user demands.
- 16. Usability:** The system should be easy to use and navigate. It should provide users with clear instructions and a user-friendly interface.
- 17. Performance:** The system should be designed to perform efficiently. It should be optimized for fast response times and minimal downtime.
- 18. Compatibility:** The system should be compatible with different web browsers and operating systems. It should be tested to ensure that it works correctly on different devices.
- 19. Accessibility:** The system should be designed to give accessibility to all types of devices.

CHAPTER 5

SYSTEM IMPLEMENTATION

System implementation is the process of writing code and integrating the system components to develop a functional software application. In the case of a movie ticket reservation system, the implementation process would involve the following steps:

- 1. Introduction:** The movie reservation system is an online platform that allows users to book movie tickets in advance.
- 2. Objectives:** The objectives of the system are to provide a convenient and user-friendly way for customers to purchase movie tickets, reduce long waiting lines at the theatre, and improve the overall movie-going experience.
- 3. User Roles:** The system has two types of users - customers and administrators. Customers can browse movies, select a screening time, choose seats, and make payments. Administrators can add or delete movies, adjust screening times, manage seat availability, and generate reports.
- 4. Technology Stack:** The system is built using PHP, HTML, CSS, and MySQL. It is hosted on an Apache web server and uses Git for version control.
- 5. Architecture:** The system follows a client-server architecture. The client is the user's web browser, which communicates with the server via HTTP requests. The server processes the requests, retrieves data from the database, and sends back responses to the client.
- 6. User Interface:** The user interface is designed to be intuitive and user-friendly. It uses a modern and responsive design with easy navigation and clear calls to action.
- 7. Database Design:** The database schema consists of tables for movies, screening times, seats, bookings, and users. The tables are linked through foreign keys to ensure data consistency.

- 8. Movie Listings:** The home page displays a list of movies currently showing. Users can browse through the list, view movie details, and select a screening time.
- 9. Movie Details:** The movie details page displays information about a selected movie, including the title, synopsis, poster, and screening times. Users can choose a screening time, select seats, and make payments.
- 10. Seat Selection:** The seat selection page displays a seating chart of the theatre. Users can choose seats based on availability and price. The system also shows the total cost of the booking.
- 11. Payment:** The payment page allows users to pay for their booking using a credit card or other payment methods. The system uses secure payment gateways to ensure transaction safety.
- 12. Booking Confirmation:** The booking confirmation page displays the details of the booking, including the movie title, screening time, seat numbers, and booking reference number. Users can print or email the booking details for future reference.
- 13. Admin Dashboard:** The admin dashboard provides an overview of the system's performance, including the number of bookings, revenue, and popular movies. It also allows administrators to manage movies, screening times, seats, and users.
- 14. Reports:** The system generates reports on movie attendance, revenue, and user demographics. Administrators can use these reports to make informed decisions about pricing, scheduling, and promotions.
- 15. Conclusion:** A movie reservation system is a powerful tool that streamlines the ticket booking process and improves the movie-going experience for customers. By leveraging modern technologies and user-centred design principles, the system can help theatres increase revenue, reduce wait times, and enhance customer satisfaction.

CHAPTER 6

INTERPRETATION OF RESULTS

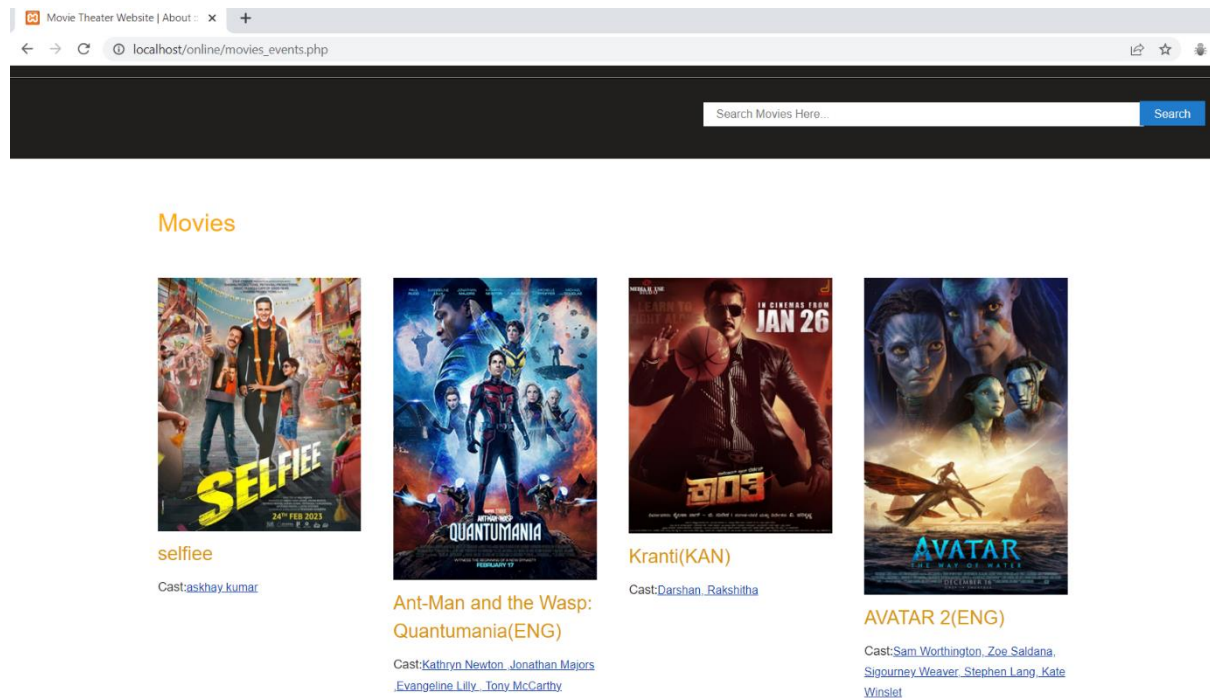


Fig 6.1: Home Page – Description of Movie List-upcoming, present and trailer of movies

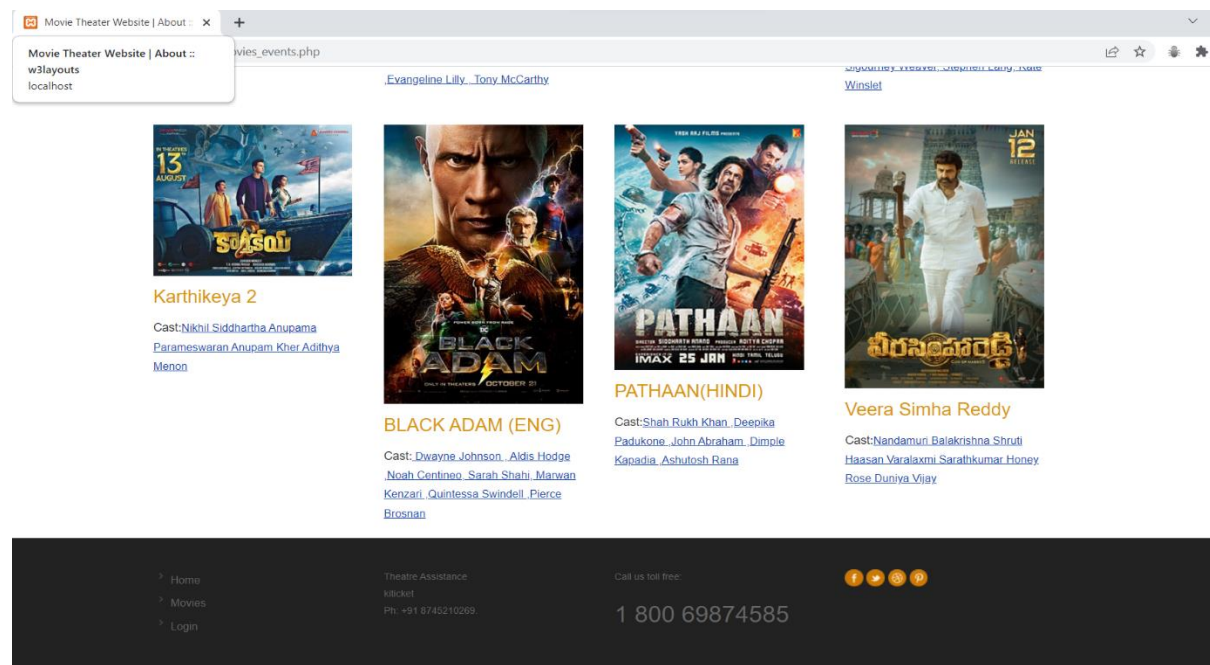


Fig 6.2: Home Page with Helpdesk- Contact details of the owner of the Page, upcoming movie and current movie present in the theatres

Movie Theater Website | About: x

localhost/online/login.php

movie
TICKET
Booking

HOME MOVIES LOGIN

Search Movies Here... Search

Login

Sign in to start your session

Email

Password

Login

New Here? Register

Home Theatre Assistance Call us toll free: 1 800 69874585

Movies Kibicket Ptn: +91 8745210269

Login

Fig 6.3: Login Credentials- Login details are verified of customers who has signed up at first only

Movie Theater Website | About: x

localhost/online/registration.php

Search Movies Here... Search

Register

Sai Sathvika

43

Female

9854102365

sai@gmail.com

Login

Home Theatre Assistance Call us toll free: 1 800 69874585

Movies Kibicket Ptn: +91 8745210269

Login

Fig 6.4: Sign Up Page- New users can use this to create account

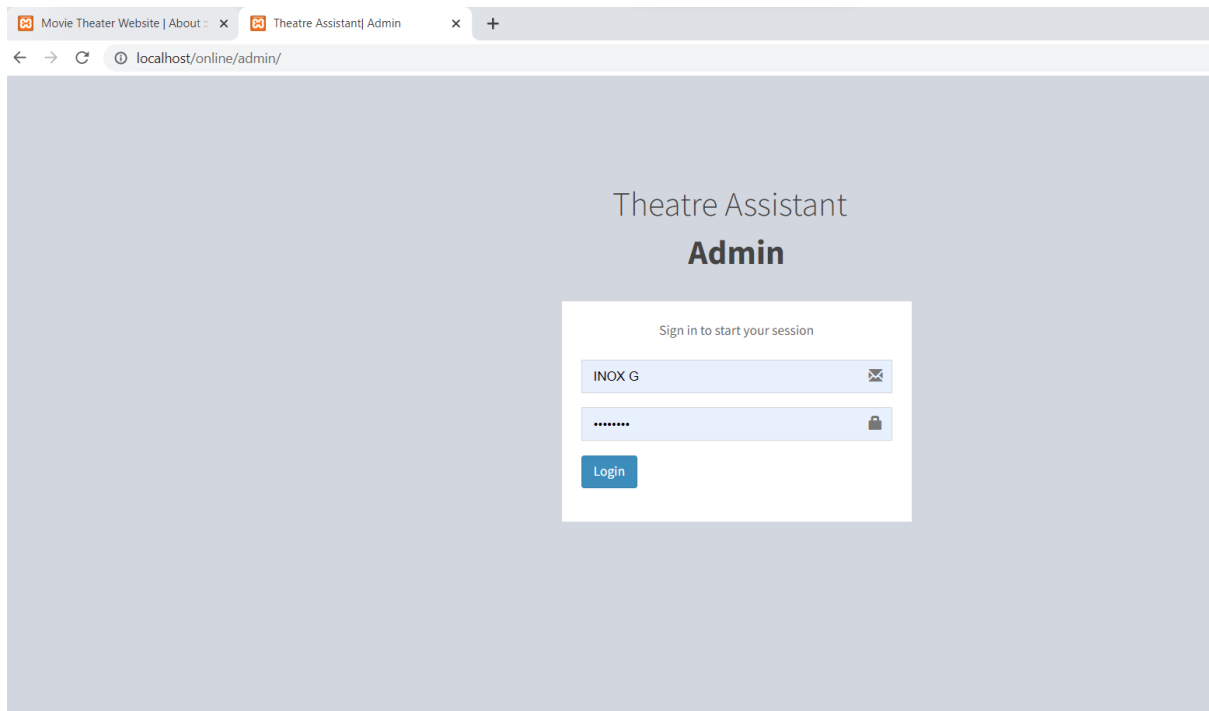


Fig 6.5: Admin Login Credentials- Login details of the admin are verified in this page

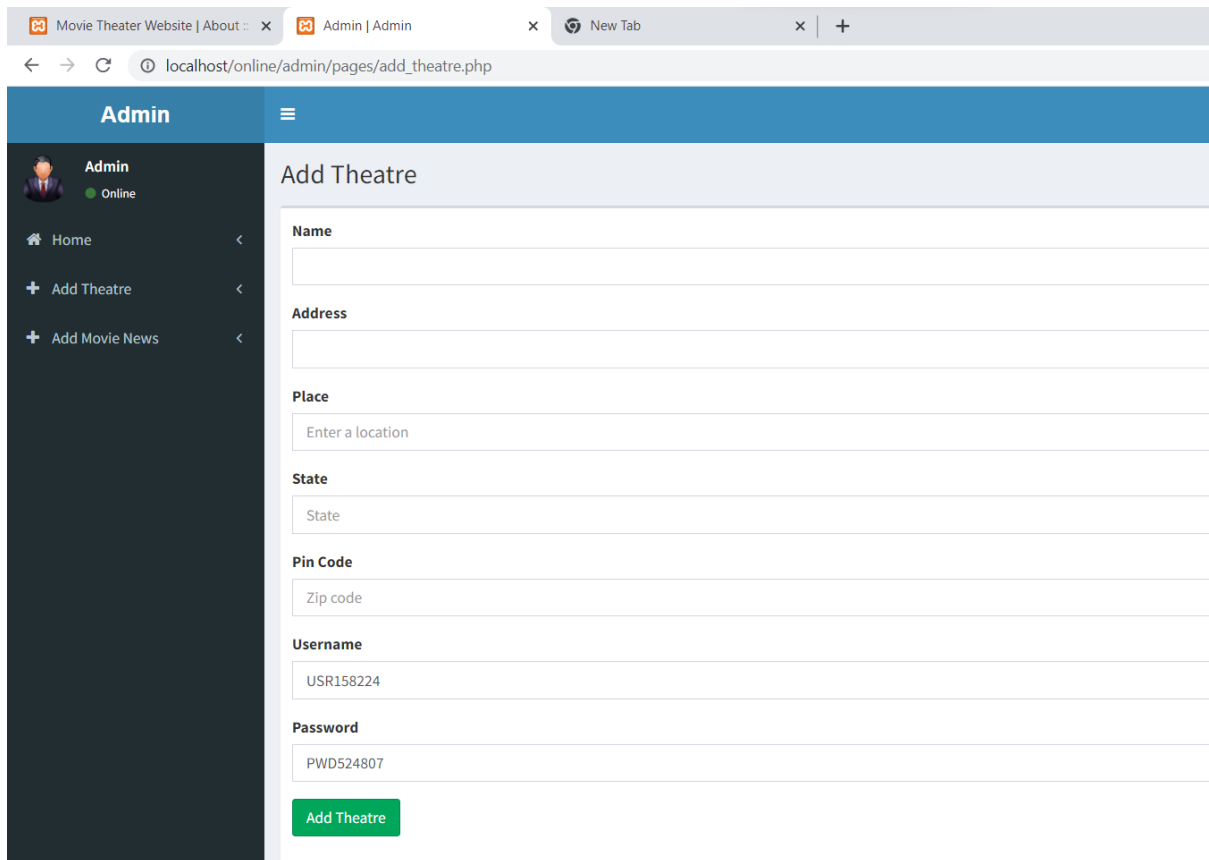


Fig 6.6: Theatre Add Up Credentials-In this the theatre are added as new users

MOVIE TICKET RESERVATION

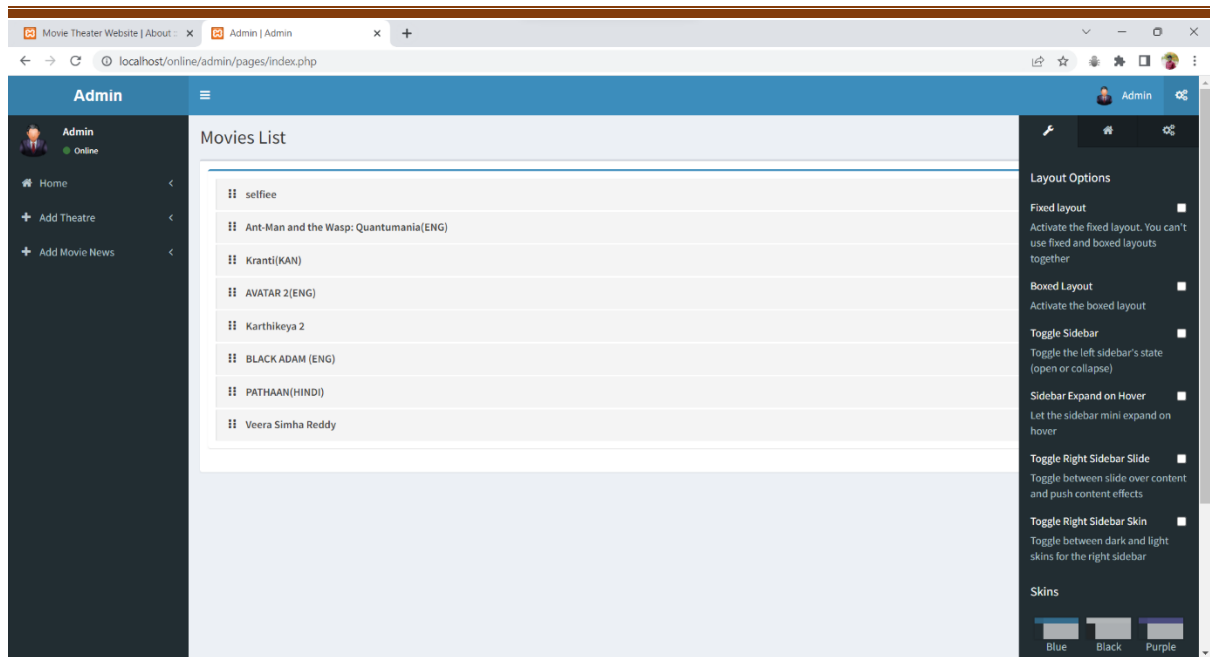


Fig 6.7: Movie List- This is used to Add the new movies to the home page

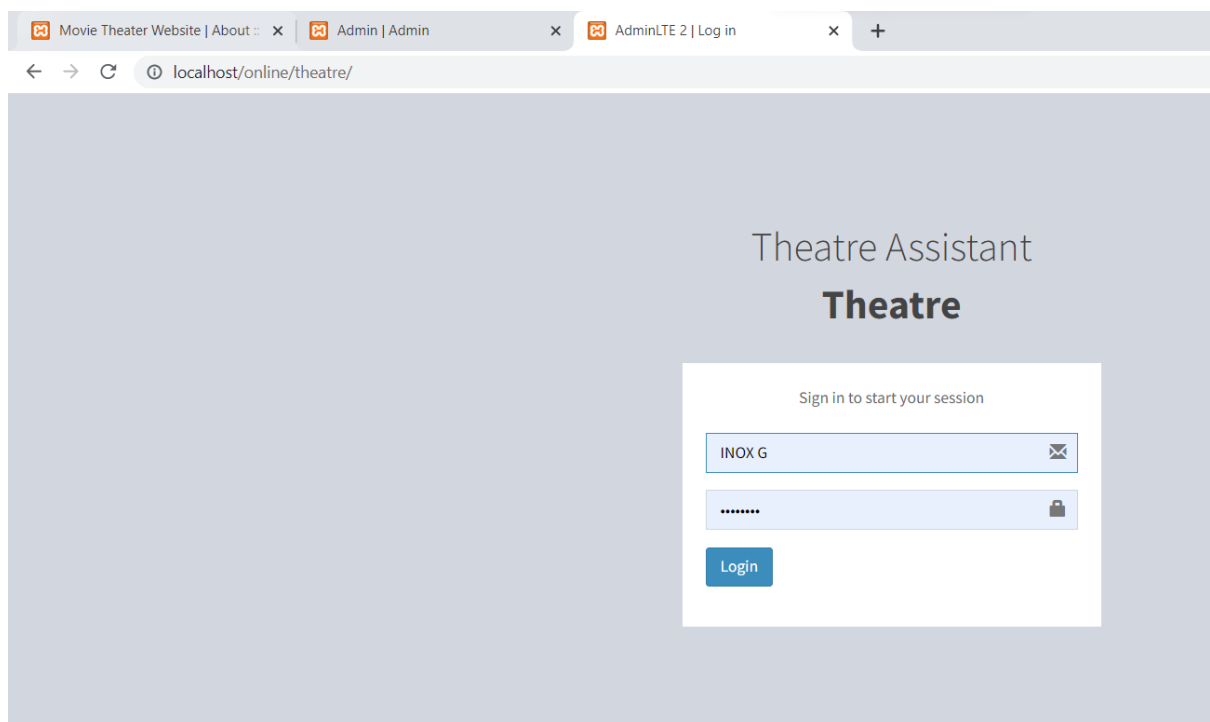


Fig 6.8: Theatre Login Credentials- This is used to login to the theatre further addition of movies, showtime.

MOVIE TICKET RESERVATION

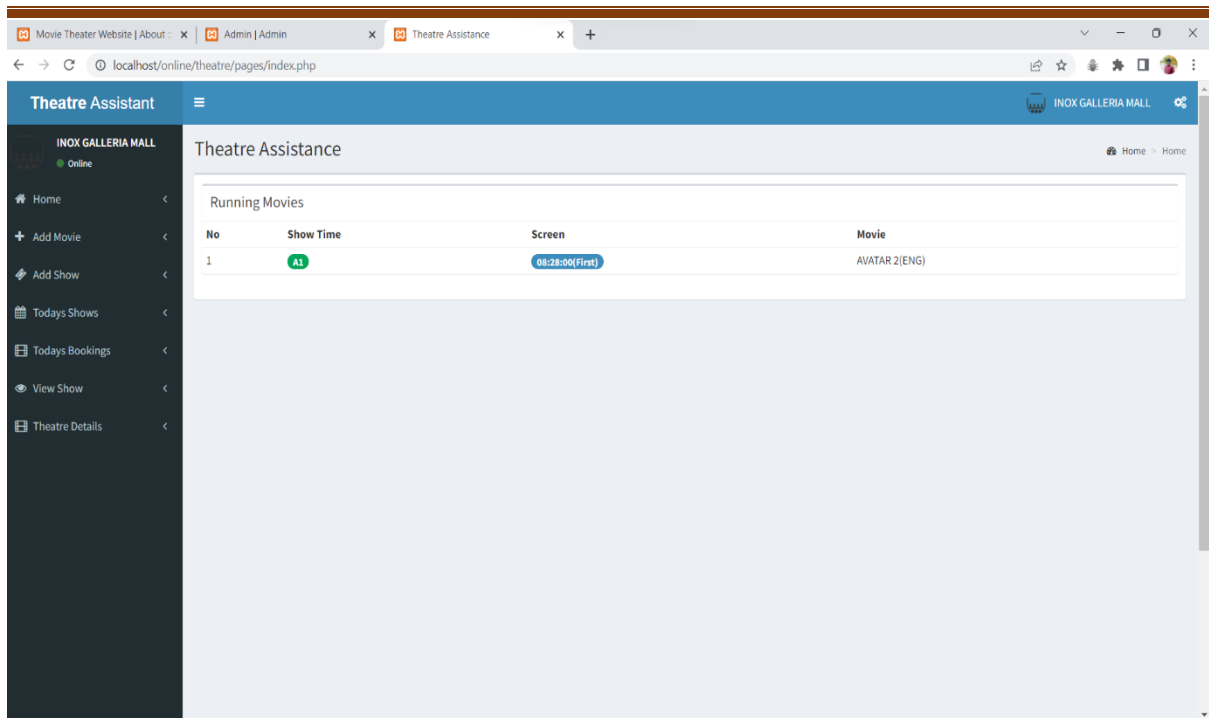


Fig 6.9: Running Movie Show Details- This is used to check the running movie details and movie name as well as screen details

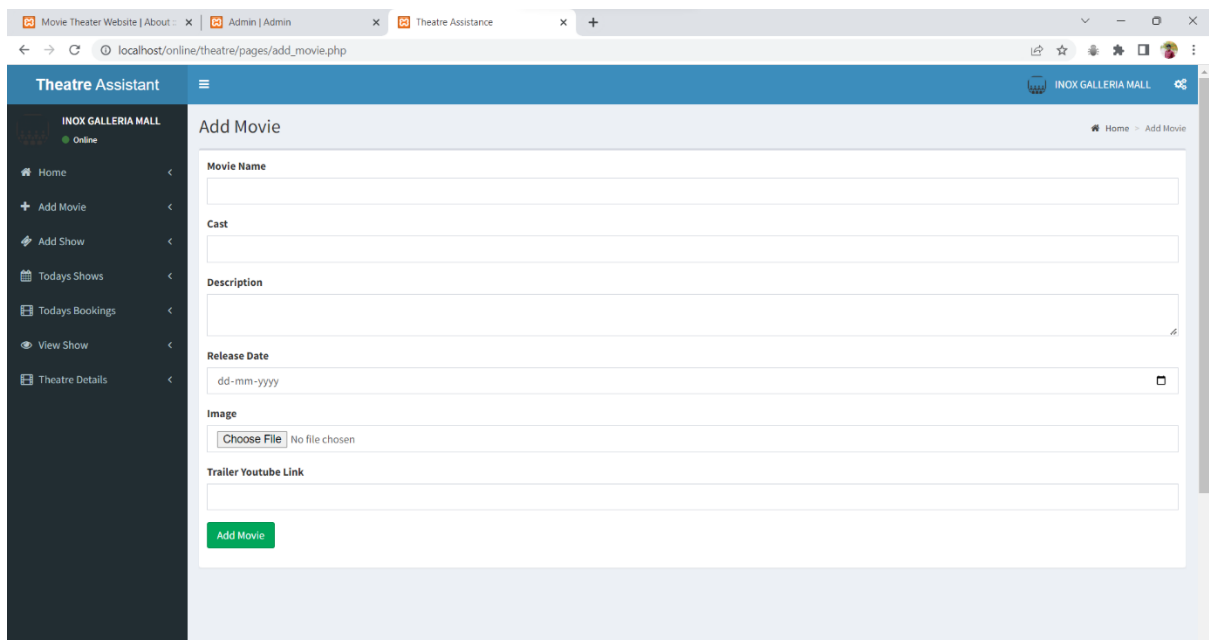


Fig 6.10: Movie Add Up for Theatre- This is used to add Movie its description, cast, trailer and the poster.

MOVIE TICKET RESERVATION

The screenshot shows the 'Add Show' form in the Theatre Assistant application. The form is located on the right side of the page, with a sidebar on the left containing navigation links: Home, Add Movie, Add Show, Today's Shows, Today's Bookings, View Show, and Theatre Details. The form has the following fields:

- Select Movie:** A dropdown menu with 'Select Movie' as the placeholder.
- Select Screen:** A dropdown menu with 'Select Screen' as the placeholder.
- Select Show Times:** A text input field with 'Select Show Times' as the placeholder.
- Start Date:** A date input field with the format 'dd-mm-yyyy' and a calendar icon.

At the bottom of the form is a green 'Add Show' button.

Fig 6.11: Movie Show Timings- This is used to add any show time of the theatre so that customer can choose the show timings

The screenshot shows the 'View Shows' table in the Theatre Assistant application. The table is located on the right side of the page, with a sidebar on the left containing navigation links: Home, Add Movie, Add Show, Today's Shows, Today's Bookings, View Show, and Theatre Details. The table has the following columns:

- Sl.no**
- Screen**
- Show Time**
- Movie**
- Options**

The table contains four rows of data:

Sl.no	Screen	Show Time	Movie	Options
1	A1	08:28 AM (First Show)	AVATAR 2(ENG)	<button>Stop Running</button> <button>Stop Show</button>
2	A2	10:40 AM (First Show)	Kranti(KAN)	<button>Start Running</button> <button>Stop Show</button>
3	INOX VIP	02:40 PM (Second Show)	Ant-Man and the Wasp: Quantumania(ENG)	<button>Start Running</button> <button>Stop Show</button>
4	INOX VIP	02:40 PM (Second Show)	BLACK ADAM (ENG)	<button>Start Running</button> <button>Stop Show</button>

Fig 6.12: Available Shows- This shows all the show timings details of a single theatre and the theatre owner can stop the running and start a show using this

MOVIE TICKET RESERVATION

The screenshot shows a web browser with three tabs: 'Movie Theater Website | About', 'Admin | Admin', and 'Theatre Assistance'. The address bar shows 'localhost/online/theatre/pages/add_theatre_2.php'. The page title is 'Theatre Assistant' and the logo is 'INOX GALLERIA MALL'. The main content area is titled 'Theater Details' and contains two sections: 'General Details' and 'Screen Details'.

General Details

Theater Name	INOX GALLERIA MALL
Theater Address	Galleria Mall,near NES bus stop , opposite to yelahanka ,bangalore
Place	
State	karnataka
Pin	560066

Screen Details

Sino	Screen Name	Seats	Charge	Show Time	
1	A1	230	190	08:28 am ,11:45 am ,	+ Add Screen + Add Show Times
2	INOX VIP	50	1500	02:40 pm ,	+ Add Show Times
3	A2	300	270	10:40 am ,05:45 pm ,	+ Add Show Times

Fig 6.13: Theatre and Screen Details- This shows us the details of theatre contact details, address and shows running

The screenshot shows a web browser with two tabs: 'Movie Theater Website | About' and 'Admin | Admin'. The address bar shows 'localhost/online/booking.php'. The page features a movie poster for 'Avatar: The Way of Water' and a description of the film. Below the description is a 'Watch Trailer' button. The main content area is a booking form with the following details:

Theatre	INOX GALLERIA MALL,
Screen	A1
Date	09-Mar-2023 ➔
Show Time	08:28 AM First Show
Number of Seats	1
Amount	Rs 190

Below the form is a blue button labeled 'Book Now'.

Fig 6.14: Booking Credentials- This shows the details of the booking and charges details including the show time, screen number and theatre details.

MOVIE TICKET RESERVATION

The screenshot shows a web browser with three tabs: 'Movie Theater Website | About', 'Admin | Admin', and 'Theatre Assistance'. The address bar shows 'localhost/online/booking.php'. The main content area features a movie poster for 'BLACK ADAM' on the left. To its right is a detailed description of the film, including the cast (Aldis Hodge, Noah Centineo, Sarah Shahi, Marwan Kenzari, Quintessa Swindell, and Pierce Brosnan) and the plot. Below the description is a 'Watch Trailer' button. On the right side of the page, there are two movie listings: 'Krantil(KAN)' and 'BLACK ADAM (ENG)', each with its own poster, release date, cast, and description. At the bottom left, there is a booking form with the following fields: Theatre (Rockline Cinemas), Screen (Audi 2), Date (20-Mar-2023), Show Time (11:30 AM Noon Show), Number of Seats (1), and Amount (Rs 500). A 'Book Now' button is located at the bottom of the form.

Theatre	Rockline Cinemas,
Screen	Audi 2
Date	20-Mar-2023
Show Time	11:30 AM Noon Show
Number of Seats	1
Amount	Rs 500

[Book Now](#)

Fig 6.15: Booking Credentials – This shows the description of the movie and trailer link of the movie

The screenshot shows a web browser with two tabs: 'BillDesk - All Your Payments. Sing' and '+'. The address bar shows 'localhost/online/bank.php'. The main content area is titled 'BANK' and displays the following transaction details: Merchant (Shop Street), Transaction Amount (INR 190), and Debit Card (9874512012563256). Below this, there is an 'Authenticate Payment' section with the text 'OTP sent to your mobile number ending 0119'. A prompt 'Enter One Time Password (OTP)' is followed by a text input field. To the right of the input field is a 'Make Payment' button. Below the input field is a 'Resend OTP' link. At the bottom left, there is a 'Go back to merchant' link.

BANK	
Merchant	: Shop Street
Transaction Amount	: INR 190
Debit Card	: 9874512012563256

Authenticate Payment
OTP sent to your mobile number ending 0119

Enter One Time Password (OTP)

[Go back to merchant](#) [Resend OTP](#) [Make Payment](#)

Fig 6.16: Payment Details- This the details of the transaction number and as well the OTP sent to registered number can be fed to this page portal

MOVIE TICKET RESERVATION

The screenshot shows a web browser with the URL `localhost/online/profile.php`. The page has a dark header with the 'movie TICKET Booking' logo on the left and navigation links 'HOME', 'MOVIES', 'RAKSHITH M', and 'LOGOUT' on the right. A search bar with the placeholder 'Search Movies Here' and a 'Search' button is located below the header. The main content area is divided into two sections. The 'BOOKINGS' section on the left contains a table with the following data:

Booking Id	Movie	Theatre	Screen	Show	Seats	Amount	
BKID2738486	Kranti(KAN)	INOX GALLERIA MALL	A2	First	1	Rs 270	✓
BKID8107269	Kranti(KAN)	Prasanna Theatre	screen2	Others	1	Rs 150	✓
BKID7897065	Kranti(KAN)	Prasanna Theatre	screen2	Others	1	Rs 150	✓
BKID8034803	selfiee	Prasanna Theatre	screen 1	First	1	Rs 170	✓

The 'Films in Theaters' section on the right features a movie poster for 'Karthikeya 2' and the following details:

Karthikeya 2
Release Date: 2022-08-13
Cast: Nikhil Siddhartha Anupama Parameswaran Anupam Kher Adithya Menon
Description: [Karthikeya 2 is a 2022 Indian Telugu-language mystery action-adventure film](#) [4][5], [written and directed by Chandoo Mondeti](#). The film serves as a sequel to the 2014 film [Karthikeya](#) and stars [Nikhil Siddhartha](#), [Anupama Parameswaran](#), and [Anupam Kher](#). It is produced by [Abhishek Agarwal Arts](#).

Fig 6.17: Booked Tickets- This is the customer user view where the booked tickets will be visible including the screen number, movie name, theatre and number of seats and amounts

CHAPTER 7

CONCLUSION & FUTURE ENHANCEMENTS

In conclusion, the movie reservation system is a powerful tool that enables users to book movie tickets online, reducing the hassle of standing in long queues at the movie theatre. The system is built using modern technologies like PHP, HTML, CSS, and MySQL, and is designed to be user-friendly and intuitive. By providing an easy and convenient way for customers to purchase movie tickets, the system can help theatres increase revenue and improve the overall movie-going experience. However, there is always room for improvement, and several areas can be enhanced to make the system even better.

Future Enhancements:

- 1. Mobile Application:** In addition to the web-based system, the development of a mobile application can enhance the customer experience by providing a more convenient way to book tickets on-the-go. The application can also include features like push notifications, movie recommendations, and personalized offers.
- 2. Virtual Seating:** The implementation of a virtual seating chart can improve the user experience by enabling users to select specific seats in advance. The virtual seating chart can also provide real-time information on seat availability, helping users make informed decisions about their booking.
- 3. Dynamic Pricing:** The implementation of dynamic pricing can help theatres maximize revenue by adjusting ticket prices based on factors like demand, time of day, and seat location. This can also help distribute demand more evenly, reducing congestion during peak hours.
- 4. Social Media Integration:** The integration of social media platforms like Facebook and Twitter can help theatres reach a wider audience and promote their movies and events. The system can also allow users to share their booking details on social media, increasing visibility and word-of-mouth marketing.

5. **Loyalty Programs:** The implementation of a loyalty program can encourage repeat business and customer loyalty. The system can offer rewards like discounts, free tickets, and exclusive screenings to users who book tickets regularly.
6. **Real-Time Updates:** The implementation of real-time updates can provide users with up-to-date information on movie schedules, seat availability, and promotions. This can also help users make informed decisions about their bookings and reduce confusion or frustration.
7. **Customer Feedback:** The implementation of a customer feedback system can help theatres gather insights into the customer experience and identify areas for improvement. The system can also provide a platform for users to share their opinions and suggestions.
8. **Multiple Payment Methods:** The implementation of multiple payment methods can provide users with more flexibility and convenience when booking tickets. The system can support payment methods like PayPal, Apple Pay, and Google Wallet.
9. **Multi-Language Support:** The implementation of multi-language support can cater to users from different regions and nationalities. The system can offer language options like English, Spanish, French, and Chinese.
10. **Accessibility Features:** The implementation of accessibility features like closed captioning, audio descriptions, and assistive technologies can help users with disabilities enjoy movies and book tickets with ease.
11. **Advanced Search:** The implementation of an advanced search feature can help users find specific movies based on criteria like genre, cast, director, or rating.
12. **User Reviews:** The implementation of a user review system can provide valuable feedback to other users and help them make informed decisions about their bookings.

13. Gamification: The implementation of gamification features like leader boards, badges, and rewards can make the booking process more engaging and fun for users.

14. Data Analytics: The implementation of data analytics tools can help theatres analyse user behaviour, preferences, and trends, and make data-driven decisions about pricing, scheduling, and promotions.

15. Live Chat Support: The implementation of live chat support can provide users with instant assistance and help them resolve any issues or concerns they may have. 16. **Personalized Recommendations:** The implementation of personalized recommendation engines can provide users with movie recommendations based on their past bookings and preference

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