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Movie Ticket Booking System

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Abstract: ***The Movie Ticket Booking System is a web-based application developed to simplify and automate the process of booking movie tickets. This system enables users to log in securely, browse currently available movies, select a preferred theatre and showtime, and reserve the desired number of tickets in just a few steps. It provides a convenient alternative to traditional ticket booking methods by reducing manual effort and saving time. Upon successful booking, a confirmation form is generated, which can be printed and presented at the theatre for ticket collection. This system aims to enhance user experience, improve efficiency, and ensure accurate seat management in theatres.***

I. INTRODUCTION

With the rapid growth of internet-based services, the way people interact with entertainment has transformed significantly. One such advancement is the shift from traditional ticket counters to online booking platforms. The **Movie Ticket Booking System** is a WebAppdeveloped to meet the increasing demand for a faster, more convenient, and user-friendly method of reserving movie tickets.

This system allows users to log in securely, explore currently running movies, select preferred theatres and show timings, and book tickets instantly. By offering real-time access to movie schedules and seat availability, the system enhances user satisfaction while reducing manual workload for theatre staff.

In conventional setups, customers often face challenges like long queues, limited ticket availability, and restricted service hours. This project aims to overcome these issues by providing a 24/7 accessible platform that simplifies the entire ticket booking process. It also helps theatre administrators maintain organized records of bookings, manage customer details, and schedule movie shows efficiently.

Overall, this system represents a modern, digital solution for managing movie ticket reservations — designed to benefit both the end-users and cinema management through increased efficiency, accuracy, and ease of use.

II. METHODOLOGY

The Movie Ticket Booking System aims to transform the traditional movie ticketing process into a smoother, more efficient digital experience. Unlike conventional methods that often involve long waits and limited access, this system provides users with instant, around-the-clock access to movie listings, theatres, and seat availability. Its goal is not only to automate the booking process but to make it more intuitive and accessible for all users. By streamlining each step—from selection to confirmation—it offers a modern solution that enhances convenience, reduces errors, and sets a new standard for customer satisfaction in the entertainment industry.

III. SYSTEM ARCHITECTURE

This system architecture is designed for a movie ticket booking platform that ensures high performance, scalability, and user convenience. Clients (Web app, website, mobile web) interact through a load balancer and API Gateway, which routes requests to specific micro-services. These include API s for movie listings, seat layout, booking, paymentRozopay, and communication. A Movie Micro-service handles theater-specific logic, while caching ensures faster data access and reduced database load. All transaction data is stored in a central RDBMS. The Back-office Management System supports admin tasks like schedule updates and booking management, making the system efficient and well-structured.

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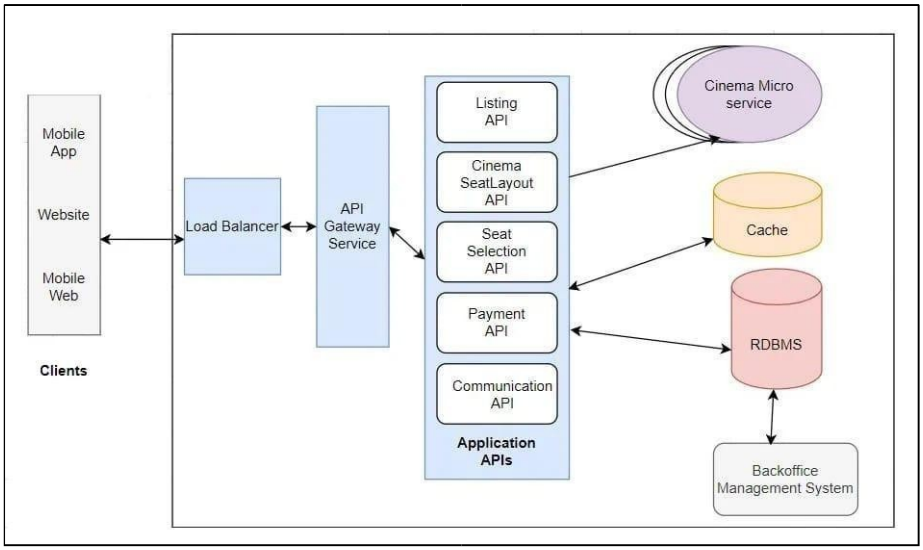


Fig 1: System Architecture.

IV. RESULTS AND DISCUSSION

The system effectively facilitates user interaction by enabling easy navigation across key sections such as the **Movies** page, **Contact Us**, and **About Us**. Users are empowered to either register new accounts or access existing ones seamlessly through the login feature, which ensures a secure and personalized experience. A notable addition is the option for users to toggle between **light** and **dark** modes, allowing them to customize the interface according to their visual preferences and environmental lighting. This not only improves usability but also enhances overall accessibility.

These features collectively contribute to a more engaging and adaptable platform, making the process of browsing and booking movie tickets more intuitive and enjoyable for users.

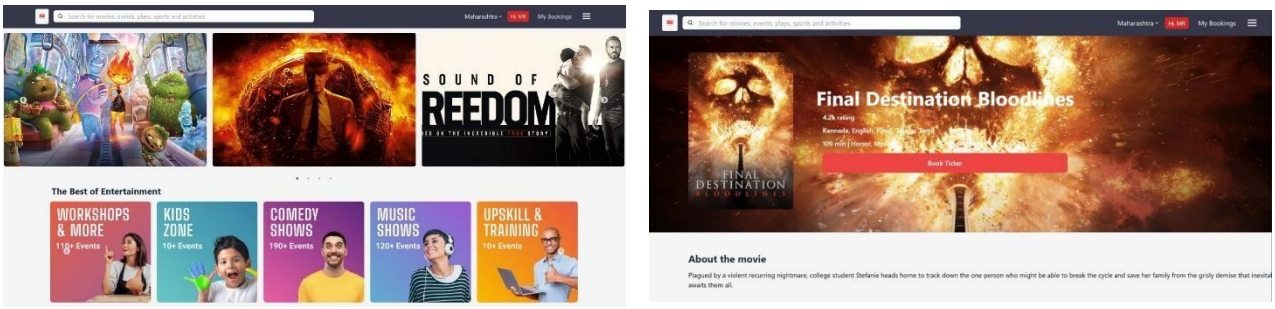


Fig 2: Light and Dark mode



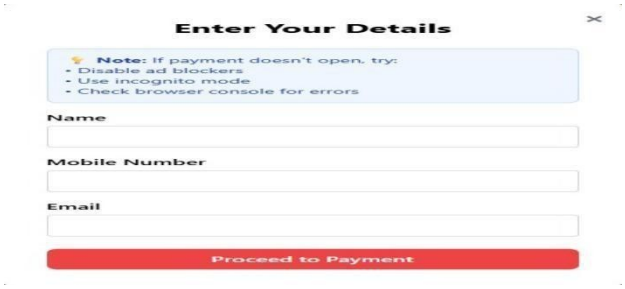


Fig 3: Seat Booking Fig 4: Login Page

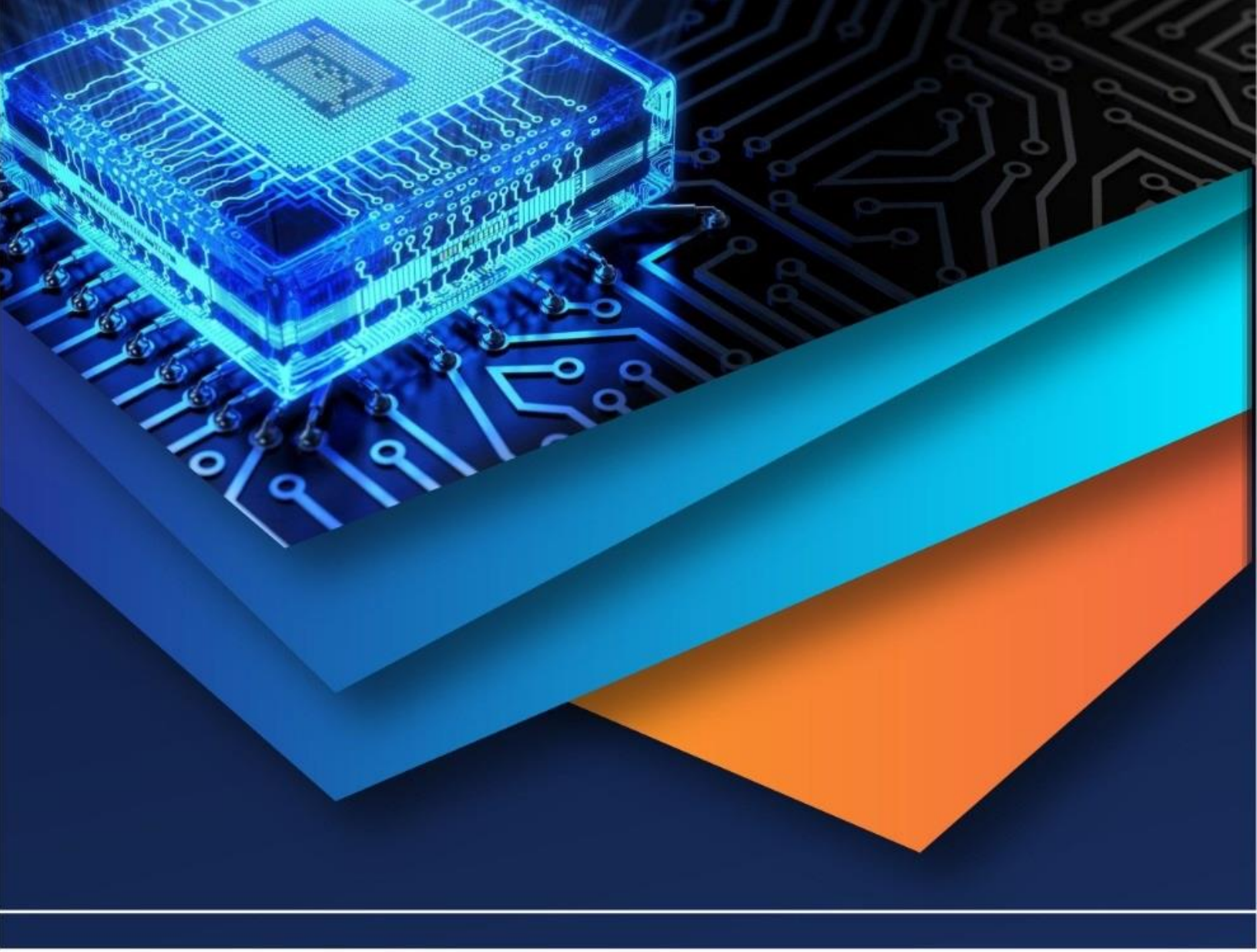
V. CONCLUSION

The Movie Ticket Booking System aims to revolutionize the online ticketing experience by focusing on user convenience, personalization, and accessibility. The inclusion of detailed movie information empowers users to make well-informed choices before booking. With optimized seat selection processes and clear ticket details, the system ensures a smooth and hassle-free reservation journey. Additionally, the incorporation of strong customer support features highlights the project's commitment to delivering exceptional user satisfaction and reliability..

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