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A Project on Booking Movie Online Ticket System

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Abstract: The internet-based movie ticketing system offers a digital platform for cinema hall access to all online users. Users log in and use a Credit/Debit card for ticket procurement. Enjoying films in cinemas is a cherished form of entertainment. However, long queues for ticket acquisition can dampen the experience. Customers input film details, and the system provides comprehensive information on ongoing movies, show timings, and seat availability. Users can order snacks via the app, served in the cinema hall. Customers can modify seating preferences and cancel bookings if needed. Our online ticketing platform is invaluable for individuals with time constraints, sparing them from lengthy queues. It streamlines operations, reducing the need for personnel at the physical booking counter

Keywords: *Tickets, Online, Booking, Website, Movie, User, Reserved.*

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I. INTRODUCTION

Welcome to our revolutionary movie ticket booking platform! Experience unprecedented speed, cleanliness, and personalization as you dive into a seamless booking journey. Delve into comprehensive movie details and effortlessly book tickets with just a few clicks. Let our intuitive site handle cost calculations effortlessly. Rest assured, your order information is securely stored for future convenience once payment is complete. Elevate your movie experience with combo bookings, and enjoy your favorite snacks and drinks delivered straight to your seat during the show. For hassle-free future bookings, simply register on your first visit. Your details will be securely stored, ensuring swift and easy ticketing for all your cinematic adventures. Here's to unforgettable movie moments with us! Happy booking.

II. NEED OF SYSTEM

In the modern digital era, traditional methods of purchasing movie tickets no longer suffice. Consumers seek convenience, accessibility, and efficiency in their moviegoing experience. Hence, the need for a robust movie ticket booking system arises. Such a system would offer round-the-clock access, user-friendly interfaces, and secure transactions, catering to the preferences of today's moviegoers. Additionally, it presents an opportunity for cinemas to streamline operations, optimize sales, and foster customer loyalty, ensuring their competitiveness in a rapidly evolving market. Overall, a comprehensive movie ticket booking system is essential for meeting the expectations of consumers and driving success for cinema operators in the digital age.

III. SYSTEM REQUIREMENT

A. System Specification

➢ *Software Requirements*

- Operating System: windows 11
- Coding language: Node js, HTML, CSS, Express, React
- Data Base: MongoDB

➢ *Hardware Requirements*

Personal computer with keyboard and mouse maintained with uninterrupted power supply.

- Processor: Ryzen i7
- Installed Memory (RAM): 2.00 GB
- Hard Disc: 2 TB
- floppy :1.44Mb

B. Required Tool

The software will be developed using React, Express, Node.js as Front End and MongoDB as Back End.HTML, CSS are used for module design.

C. Front End

➢ *CSS*

CSS, known as Cascading Style Sheets, is a language instrumental in shaping the appearance and layout of HTML

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documents on web pages. It operates through selectors that pinpoint specific HTML elements and declarations that define attributes like colors, fonts, and spacing. With a focus on resolving conflicting styles and supporting inheritance, CSS enables developers to apply styles consistently across child elements. It embraces diverse measurement units and adheres to the box model, treating elements as containers with distinct content, padding, borders, and margins. By incorporating responsive design strategies such as media queries, CSS facilitates seamless adaptation to various devices and screen sizes, ensuring a cohesive user experience across platforms. In essence, CSS empowers developers to fashion visually captivating, functional, and adaptable user interfaces for websites and web applications.

- *HTML*

HTML (Hypertext Markup Language) serves as the cornerstone of web development, acting as the standardized markup language for crafting web pages. It structures web content by defining elements and their relationships within a document. HTML documents comprise tags enclosed in angle brackets, with each tag denoting a specific element or content piece, ranging from headings and paragraphs to images and links. Attributes can augment HTML tags with additional information or functionality, such as specifying image sources or defining form input behaviour. HTML5, the latest iteration, introduced new elements and features like native multimedia support, semantic elements for better structure, and enhanced form controls. With its simplicity, versatility, and broad browser and platform support, HTML remains an indispensable tool in web development.

- *Express*

Express.js, a minimalist web application framework for Node.js, empowers developers with a streamlined approach to building web applications and APIs. Offering features such as routing, middleware integration, and support for various template engines, Express simplifies the development process. Its lightweight nature facilitates efficient handling of HTTP requests, enabling developers to organize application logic seamlessly. With its vibrant ecosystem and user-friendly design, Express.js continues to be a preferred choice for creating scalable and high-performance web solutions.

- *Node.js*

Node.js, a potent JavaScript framework, is renowned for its prowess in crafting server-side web applications. It functions as a virtual machine utilizing JavaScript as its scripting language, operating on a single-threaded events loop with non-blocking Input/Output capabilities. Widely utilized for real-time web applications, distribution systems, and purpose applications, Node.js is esteemed for its open-source, server-side JavaScript runtime environment, facilitating the construction of scalable and efficient network applications. In projects like an online movie ticket booking system, Node.js finds utility in implementing the backend server and application logic. Overall, Node.js furnishes a robust and efficient platform for developing the backend components of such systems, empowering developers to construct scalable, high-performance applications with JavaScript spanning both client and server sides.

- *React*

In the realm of Node.js development, React emerges as a pivotal JavaScript library for crafting dynamic and immersive user interfaces within web applications. With its component-based architecture, React enables developers to break down the user interface into reusable and self-contained components, promoting code reusability and maintainability. Integrating React into Node.js projects involves establishing a comprehensive development environment encompassing essential tools like npm, webpack, and Babel. These tools facilitate efficient dependency management, bundling of assets, and transpilation of JavaScript code, ensuring seamless compatibility across various environments.

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D. Backend

- *MongoDB*

MongoDB is a document-oriented database renowned for its scalability, flexibility, and performance. Unlike traditional SQL databases, MongoDB doesn't utilize tables and SQL but rather employs a BSON format for data storage. It stores data in flexible, JSON-like documents, which makes it suitable for handling large volumes of data efficiently. MongoDB's features include scalability, flexibility, and improved speed and performance. As an open-source NoSQL database management system, MongoDB is widely used across various applications, including online ticket booking systems. In such projects, MongoDB serves as the backend database, storing diverse data types like movies, theaters, showtimes, users, and booking systems. Leveraging MongoDB in an online movie ticket booking system ensures scalable and flexible data storage, enabling efficient retrieval and manipulation of data essential for seamless operation.

IV. ARCHITECTURE

An architecture diagram visually represents the structure, components, relationships, and interactions within a system or software application. It offers a high-level overview of the system's design, aiding stakeholders in comprehending how various parts of the system collaborate to accomplish specific functionalities or objectives. Architecture diagrams are instrumental in software development, system design, and IT infrastructure planning, facilitating the communication of intricate concepts in a succinct and understandable manner.

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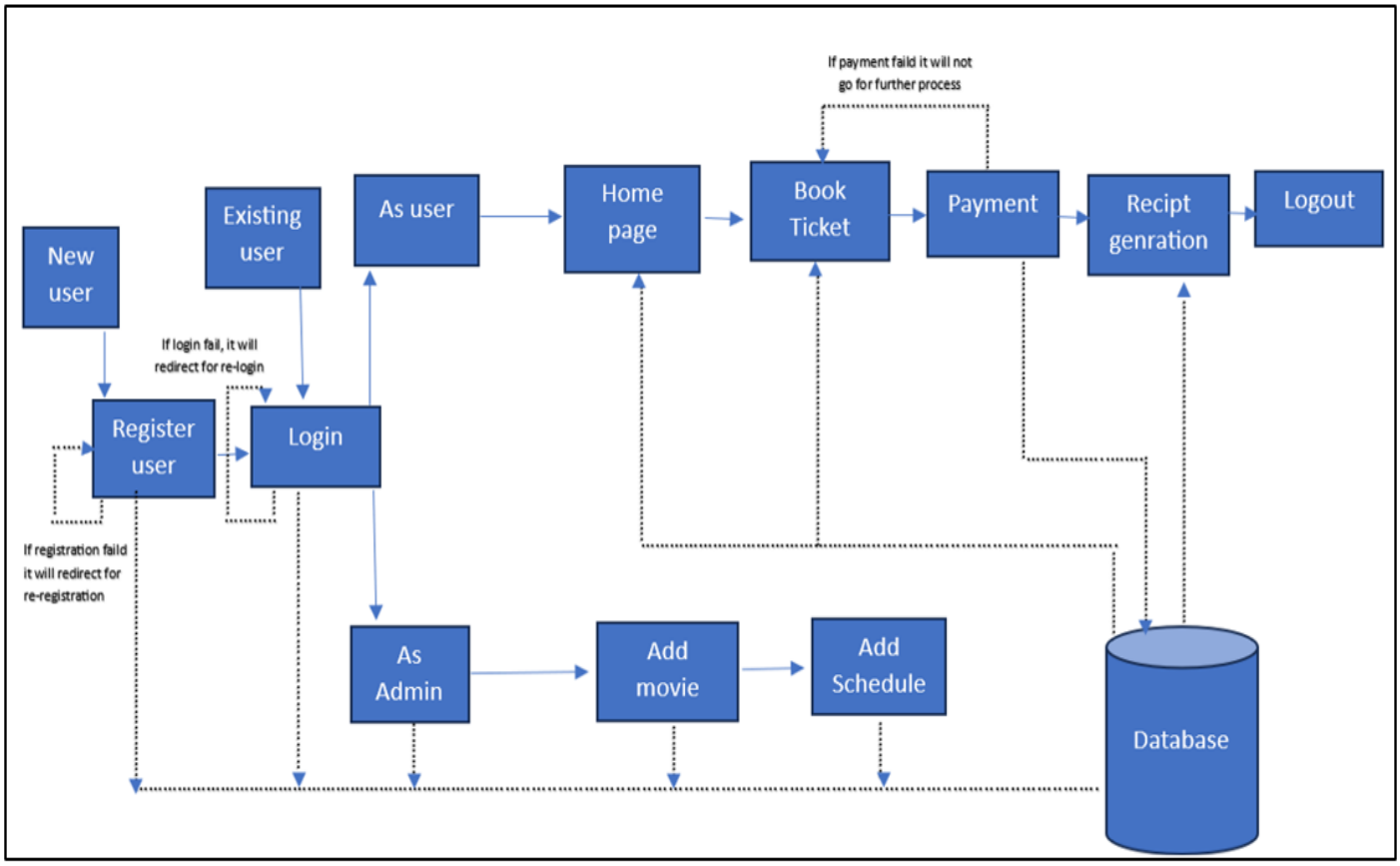

Fig 1 Architecture

V. SCREENSHOTS

➢ *Home Page*

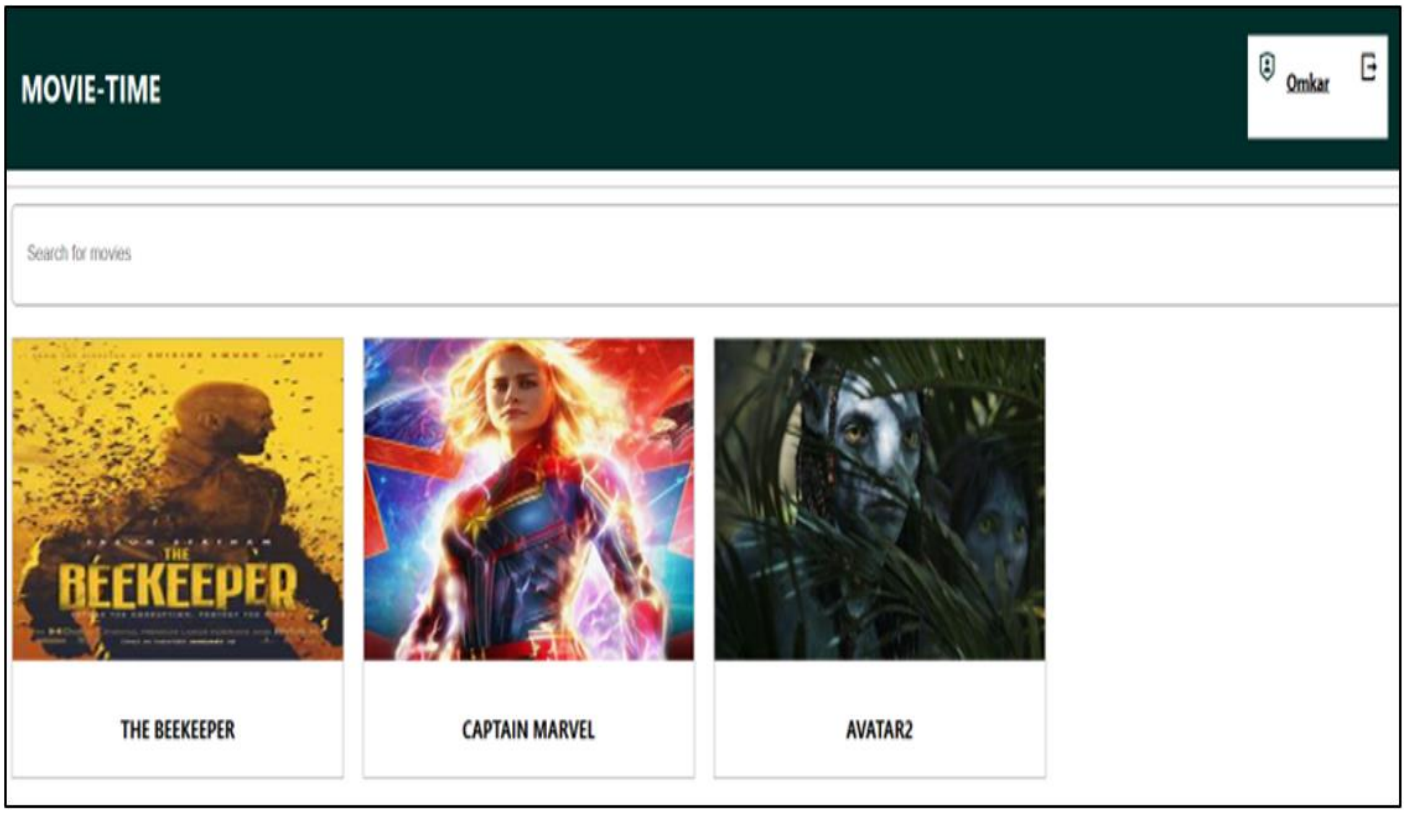

Fig 2 Home Page

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➢ *Movie Page*

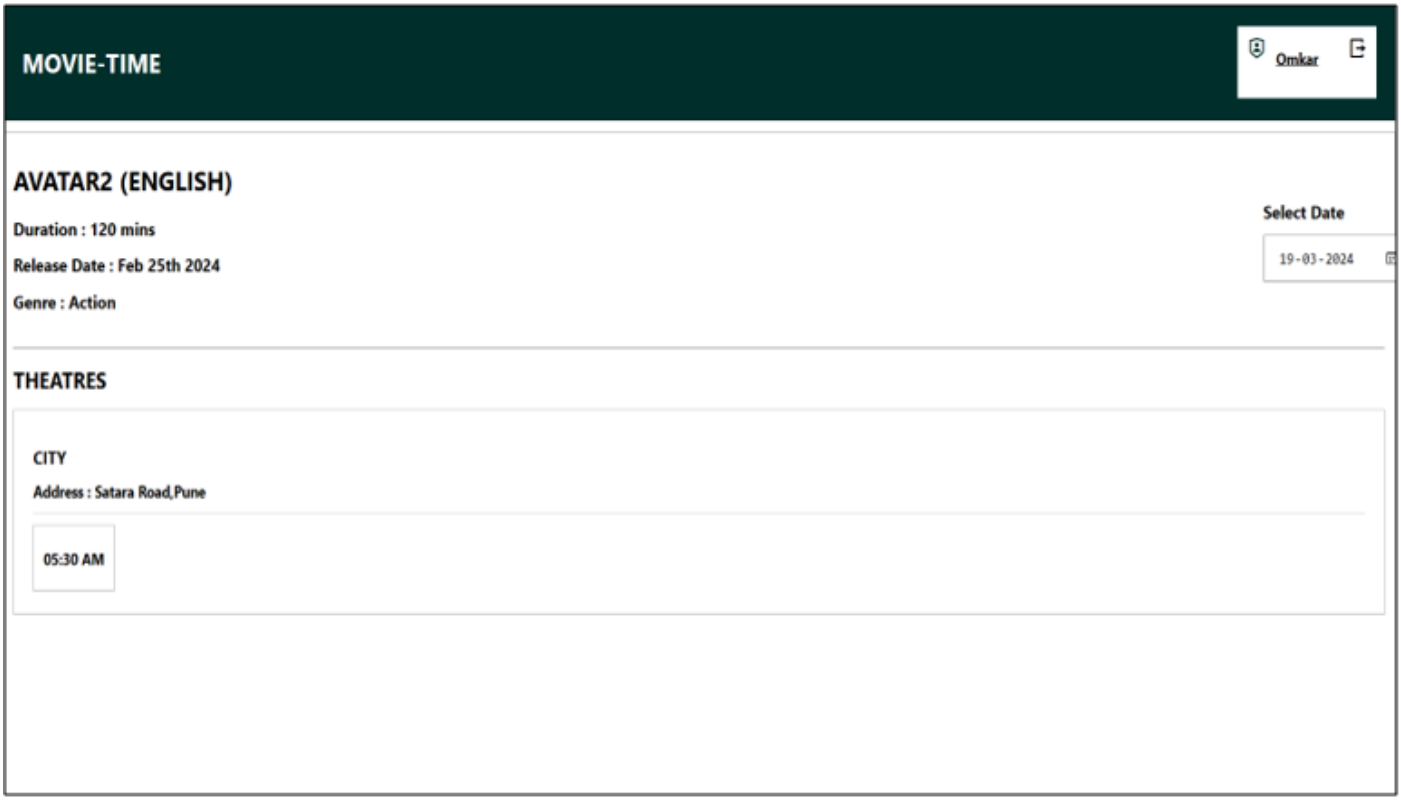

Fig 3 Movie Page

➢ *Seat Reservation Page*

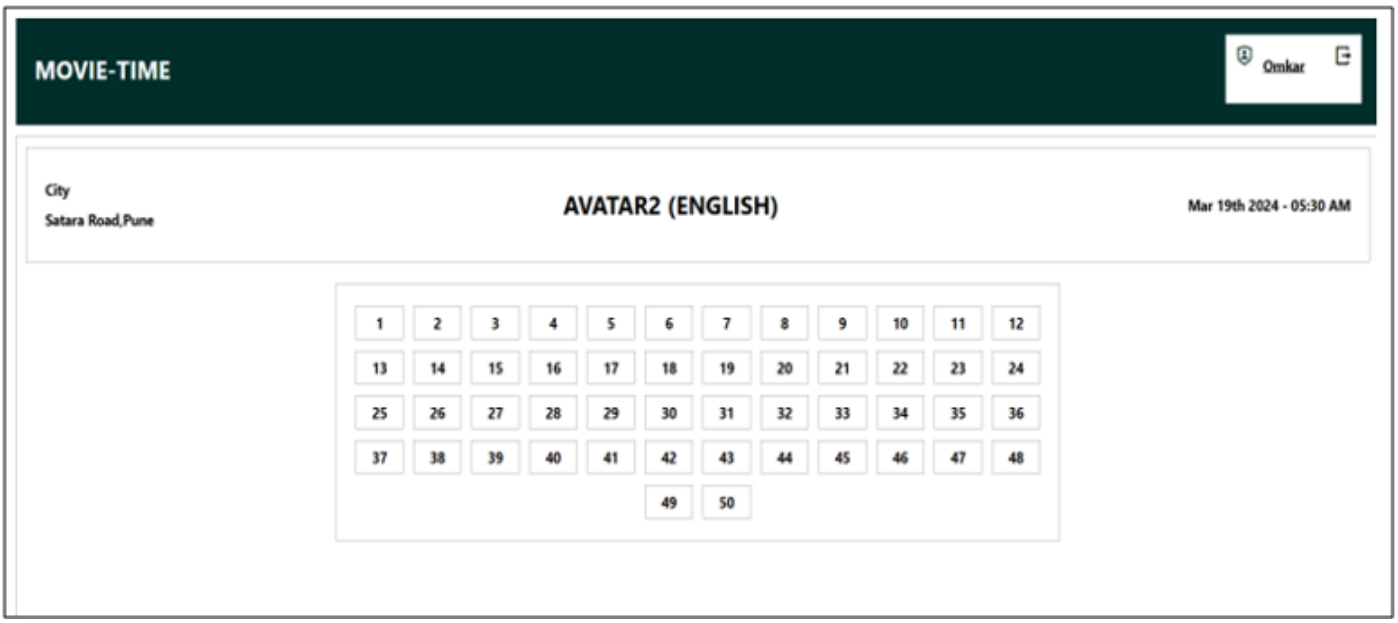

Fig 4 Seat Reservation Page

VI. CONCLUSION

After finalizing your movie ticket booking, it's crucial to carefully check the details provided in your confirmation email or message. Verify the accuracy of information such as the movie title, showtime, theatre location, and seat numbers. Confirm that your payment has been processed and that your selected seats match your preferences if applicable. Whether you've chosen e-tickets or physical ones, ensure they are easily accessible for entry to the theatre. Plan your journey considering factors like traffic and parking availability. Upon arrival at the theatre, just relax and enjoy the cinematic experience without any added stress.

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FUTURE SCOPE

Looking ahead, the future of movie ticket booking will likely see advancements driven by technology and changing consumer preferences. This includes enhanced personalization through data analytics and AI, augmented reality (AR) integration for seat selection, seamless integration with streaming services, and improved ticket security through blockchain technology. These developments aim to offer moviegoers more convenient, personalized, and immersive experiences when booking tickets for their favourite films.

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