

## **Main Project Abstract**

The traditional approach to movie booking has evolved over time due to technological advancements. The Online Movie Management System is a comprehensive solution designed to revolutionize the movie-going experience. This project leverages the power of the MERN (MongoDB, Express.js, React.js, Node.js) stack.

The Online Movie Management System is a revolutionary platform that transforms the movie-watching experience. Our project integrates three essential modules, including the admin module, providing administrators with the authority to oversee user registrations, approve new theaters, and gather insights into user interactions and bookings. The Theater module empowers cinemas to effortlessly manage various aspects, such as adding screens, designing seat layouts, procuring streaming movies, establishing showtimes, and efficiently handling bookings. Users can seamlessly explore detailed movie information, access theater details with screen configurations, and make bookings while conveniently saving their favorite movies for future reference. Beyond these integral modules, our system also introduces the Host User module, allowing users to make bookings for custom events, manage event-related details, and experience the online streaming of short films. Furthermore, the implementation of Natural Language Processing (NLP) enriches the platform with a sophisticated movie recommendation system, enhancing user engagement and satisfaction. With these interconnected modules and cutting-edge features, our system not only streamlines the movie-going process but also caters to diverse cinematic preferences, providing a user-centric, technologically advanced solution for a comprehensive cinema experience.

## **Main Project Modules:**

### **1.Admin:**

- View registered users, block user.
- Approve or reject new theaters.
- Approve Host user
- Access statistics and analytics related to user activities and bookings.

### **2.Theater:**

- Add screens and design seat orientations for booking
- Add and manage Screens, Show Time.
- Add movies to screen for streaming.
- Handle bookings.

### **3.User:**

- View detailed movie information.
- View theaters and their screen orientations
- Book movies and shows.
- Ticket Generation.
- Save favorite movies and events for future reference

- Implement a feature to stream movies and shows online.
- Integrate with The Movie Database (TMDB) API for up-to-date movie information.
- Display real-time data on movie releases, ratings, and more.

#### 4. Host User:

- Enable users to make bookings for custom events.
- Provide a booking management system for event organizers
- Ticket Generation
- Publish short films.
- Online Streaming of Short Film

#### Machine learning Integration

- Semantic Search using NLP

In conclusion, the Online Movie Management System revolutionizes the movie-going experience, offering a comprehensive cinematic journey. Through integrated Admin, Theatre, User, Host User, and NLP-based recommendation modules, our platform surpasses traditional movie booking systems. Admins gain unprecedented control, theatres manage operations effortlessly, and users enjoy a user-centric journey with detailed movie information and flexible bookings. The Host User module adds versatility, enabling users to host custom events and explore short films through online streaming. Natural Language Processing refines movie recommendations, showcasing our commitment to cutting-edge technologies. Addressing diverse cinematic needs and embracing advancements, our system marks a significant leap in the entertainment industry, promising a future of seamless, personalized, and enjoyable cinematic journeys.