

MOVIEIUM : ONLINE MOVIE TICKET BOOKING SYSTEM

ARPIT SINGH

*School of Computer Science
and Engineering
Galgotias University
Uttar Pradesh, India*

*School of Computer Science
and Engineering
Galgotias University
Uttar Pradesh, India*

*School of Computer Science
and Engineering
Galgotias University
Uttar Pradesh, India*

*School of Computer Science
and Engineering
Guide
Galgotias University
Uttar Pradesh, India*

JAIVEER YADAV

DAYA NIDHI MISHRA

**Mr-MURARI KRISHNA
SAHA**

[I] ABSTRACT

This document presents the design and implementation of an online movie ticketing system. The system is designed to enable consumers to purchase movie tickets online with ease and user-friendliness without having to wait in long queues or visiting the physical ticket outlets for features such as movie selection, seat selection, payment processing, ticket confirmation, . ticketing renewals and ticket transfers. The system also uses recommendation systems to suggest movies to users based on existing selections and browsing history. In addition, the system incorporates security features such as user authentication, data encryption, and secure payment processing to ensure customer information is protected. Various programming languages, frameworks and databases were used for implementation. Overall, the system provides an efficient and convenient way to book movie tickets, improving overall cinema experience for customers.

Keywords- Movie Ticket Booking, Ticket Transfer, Ticket Rescheduling, Ticket Cancellation, E-Ticketing, User Interaction, User Experience, Customer Satisfaction, Database Management, Software Development, Agile Methodology, Usability Testing,

[II] INTRODUCTION

Welcome to the redesigned website. Movie ticket booking is a fast, clean and somewhat personalized website, specially designed to optimize your booking experience. Log in, navigate, search for yourself and if time permits, leave your valuable information. Customers can watch any screening at any time and book any movie ticket as per their requirement. The program actually accounts for the small family and the large family. When the visitor finally decides to book a ticket, the order details including customer name, address and payment instructions are securely stored in database and pay Combo booking is also provided at the time of ticket booking and has a wonderful place to send combos to your seat while watching a movie. Someone else has to register for the first time or visit the website and then it will be stored permanently in our database in the future and you can use that username and password this to book your movie tickets whenever you want. [1]

[III] LITERATURE REVIEW

BookMyShow is the most popular movie ticketing platform in India. More than 60% of moviegoers book

their tickets using BookMyShow, and more than 80% of PVR moviegoers book their tickets online. Over 70% of BookMyShow's users are between the ages of 18-34. The reason BookMyShow has no competitors in India is its beautiful User Interface. The UI is more responsive to the audience. The average user time is only 5 minutes. Moreover, payments are secured and user data is also kept secure.



Fig 1. Distribution of BookMyShow users based on their age and gender.

Ticketplease.com is one of the popular online movie booking system which not only books movie tickets but also books tickets for Concerts and Sports Event. Ticketplease.com is associated with many single screen cinemas and major multiplexes across India. The website not only focuses on movie buffs but also intends to engage music and sports enthusiasts digitally to purchase tickets for concerts and events across India. Fandango is a popular booking site in the U.S.. The reason for its success is that it is more than just a booking site. It provides entertainment information like news about movies, interesting facts about movies, top 10 directors of all time, top 10 movies of 2022, 10 horror movies that greatest etc. It is a highly interactive website with an average of 130 movies released in a month largely according to research. Economic cinema will develop and reach the audience. But there are no low-budget movies. There are many low-budget movies that

failed at the box office but succeeded when released on OTT. The reason for this is the movie recommendation system of many OTT platforms like Netflix, Amazon Prime, Hotstar etc. use According to the survey, there are issues with the existing online ticketing system .[2]

[IV] OBJECTIVES

The main objective of the Movie Ticket Booking System business is to manage movie, customer, booking, payment, seating information. It takes care of all matters relating to screening, seating and cinema. The project is built for both client and operator endpoints and provides both client and operator channel access. The goal of the project is to develop a web infrastructure that reduces the manual process of viewing movies, clients, shows, subscriptions and payments. It tracks all the details related to bookings, payments and seats. The following functions offered by the movie ticket booking system.

- Provides information on all movies in the theater.
- Movie Ticket Booking System manages payment details, seat details, movie and show details online.
- Track customers, offers, payments and all other information.
- Manage customer data.
- Display the film's profile and description
- Provides the customer with the facility to book and pay for movie tickets online.
- To make the film and customer management more efficient
- Handles payment details and administration of transactions.
- Monitor film information.
- Improved addition and updating of records resulting in more efficient use of features on film content.
- Manage payment information.[6]

[V] METHODOLOGY

Usually to somehow actually overcome the existing problem, I somehow for all intents and purposes basically make this presentation online where any data about any cinema, movie, theater, rates can actually actually get the number very online, client they are usually pretty certainly they are usually basically it's personal computer or laptop To let display signs of improvement is basically a great way to look good, somehow really that is the existing problem contradicts. The online cinema ticket booking system would allow online cinema ticket booking, which is definitely necessary, or so they thought. A user can book a ticket whenever he wants because the system will be internet based for all intents and purposes, especially it shows how the user can book a ticket whenever and wherever he wants because the specifications will be internet-based, or so they thought , Or so they originally thought, and that's just as important. An online movie ticketing system, for all intents and purposes, will provide enough information so that the user can, for the most part, learn

about the movie and, based on that information, book the ticket size , or he hoped.[4]

The Online Movie Ticket Booking System will almost certainly improve the user experience over the current system, or so it was expected, subtly. Online movie ticket booking systems are most often particularly particularly pretty somehow a lot definitely a much better experience for booking movie tickets, which shows how online movie ticket booking systems will really actually provide really improved the actual actual user experience much better now that there is a system. [3]

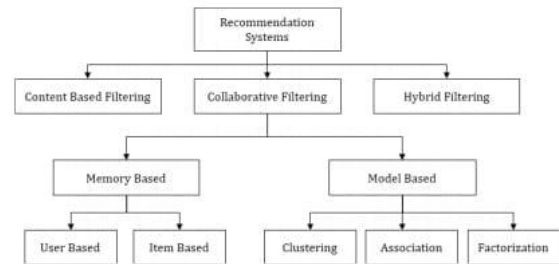


Figure 1: Taxonomy of Recommendation System

Various recommendation systems are surveyed in following section

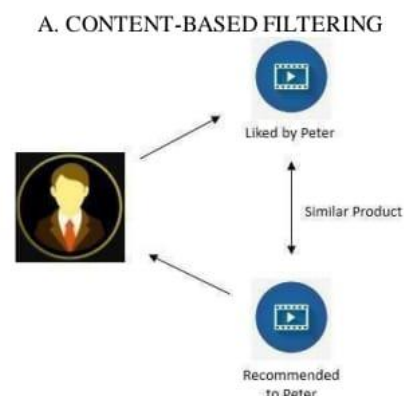


Figure 2: Content Based Filtering

Content-Based Filtering has several strengths and weaknesses. One of its strengths is that it can provide recommendations to new users as it does not require any data from other users. It can also provide recommendations to users with unique tastes and preferences. Additionally, it can provide content features that explain the reasons for an item being recommended [5].

However, one of the weaknesses of Content-Based Filtering is the overspecialization problem. It only recommends items that match the user's profile, which can result in missing out on recommending other items that the user might be interested in. Another problem is that it may not be able to recommend items that do not have enough information. 3 B. COLLABORATIVE FILTERING Figure 3: Collaborative Based Filtering Collaborative filtering was first introduced in 1991 by Goldberg et al. However, the Tapestry system presented technical deficiencies and only applied to smaller user

groups. Group lens is another scoring-based collaborative filtering recommendation system that recommends news and films. Nowadays, many e-commerce sites such as Amazon, CD Now, Drugstore and Movie finder use the recommendation system due to the massive amount of data available. Collaborative filtering is a wellknown technique for recommending items based on the similarity between users. It suggests relevant items to the user based on their neighbors' choices. This approach takes the ratings given by the user for any item from the large catalog of item catalog of ratings given by the user, also known as the user-item matrix. Figure 3 provides an example of how collaborative filtering recommends movies to the user based on their interests. [6]

[VI] SCOPE OF THE PROJECT

It can help mobilize the right personnel further. In no time, the collection becomes clear, simple and subtle. It will help the person deal with the past year more effectively and clearly. It also helps the management in the collection costs and the collection will be more smooth. The aim of our work is to provide an automated workflow, i.e. . we tried to computerize various tasks related to Movie Ticket Booking System.

- The computer system requires the person to fill out forms and several forms can easily be processed simultaneously.
- There is no need to create a manifest on the computer system but we can print it directly, saving our time.
- To help employees capture effort in their work.
- To use resources more efficiently by increasing their productivity through automation
- The system provides information that can be used for a variety of purposes.
- It meets the needs of the user
- Easily understood by user and user
- Be easy to operate
- Have a good user interface
- Be extensible
- Delivered on time within budget

[VII] IMPLEMENTATION

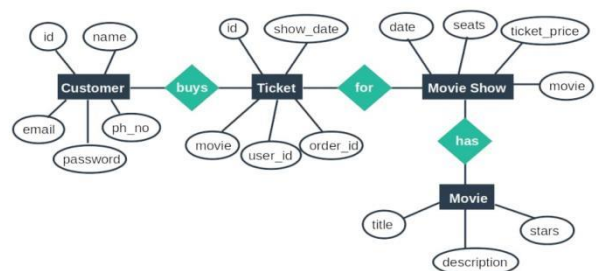
1. Content-based filtering for the recommendation system: This recommendation system uses attributes of a movie such as genre, director, description, actors, etc. to provide personalized recommendations to users. The idea behind such a system is that if a user of a movie or If you like a game or you can also find other movies or shows with similar characteristics Demographic filtering etc. Many other algorithms recommend movies based on popular actors, director and budget but not user tastes. Content based filtering provides recommendations based on the user's interests. Content filtering has some limitations because it can only provide recommendations based on the user's existing interest, without taking into account the reality of what other users think of a product about, so sometimes there may be low recommendations

2. Natural Language Processing for Sentiment Analysis: By analyzing the sentiment of a movie review, one can find out whether it is positive or negative and this information can be used to calculate the overall rating of the movie. This process of determining the sensitivity of a probe can be automated using natural language processing. Many viewers rely on reviews from other users to decide whether or not to watch a particular movie. Text reviews are more effective than ratings. In this algorithm, we used NLTK library, TfidfVectorizer and Naïve Bayes sklearn model.

3. Ticket rescheduling algorithm: The person who wants to reschedule the ticket provides his ticket ID and user ID. The application reviews the ticket information and checks for the availability of additional show times. If available, the application allows the user to select an additional display time. Once from the user

[VIII] DESIGN

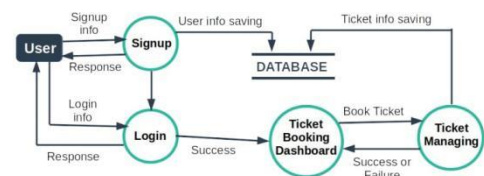
• ER DIAGRAM

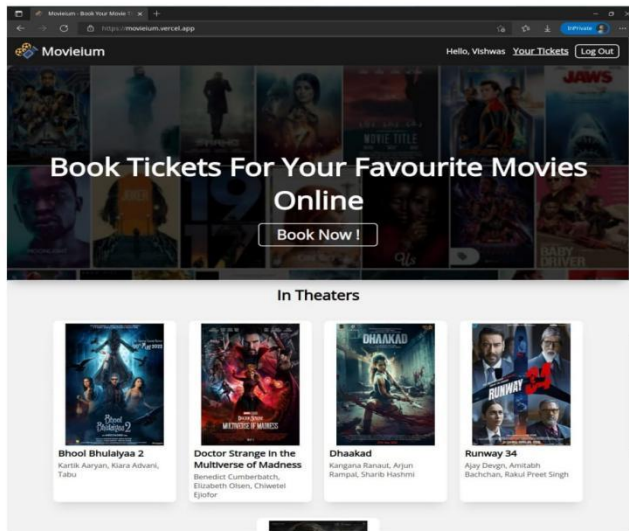
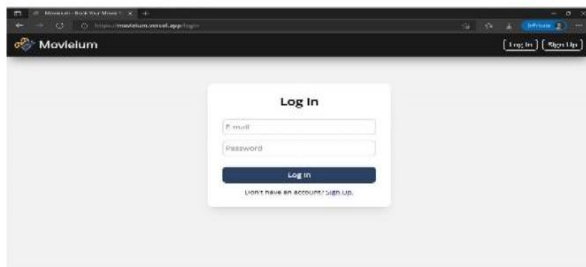
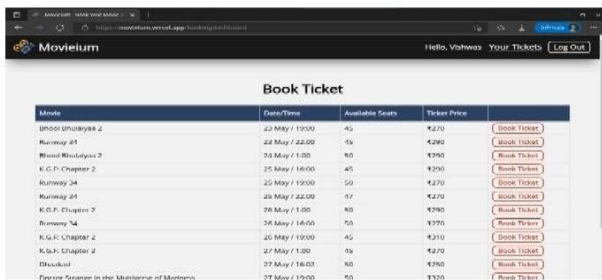
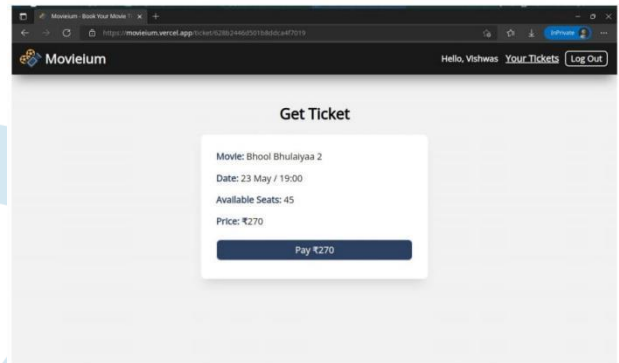
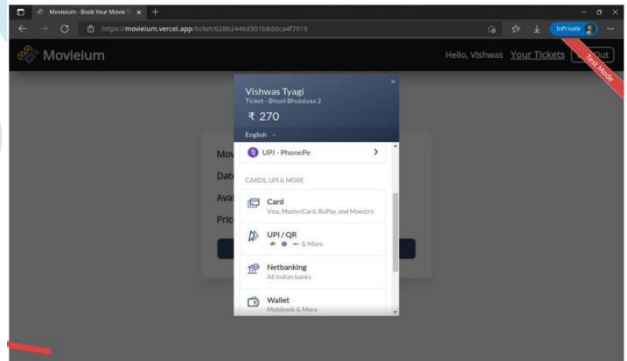
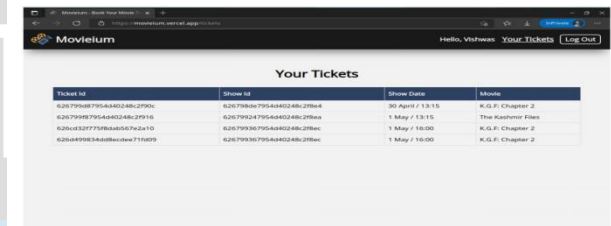


• DATA FLOW DIAGRAM (LEVEL 0)



• DATA FLOW DIAGRAM (LEVEL 1)



[IX] RESULTS**1. HOMEPAGE****2. LOGIN PAGE****3. BOOKING DASHBOARD****4. TICKET PAGE****5. PAYMENT PAGE****6. TICKET HISTORY****7. ADMIN DASHBOARD****[X] CONCLUSION**

This work is being carried out successfully and the performance appears to be satisfactory. This project is designed to meet functional requirements. It is developed in PHP and the database is built on My SQL server keeping the system specifications in mind. User can book tickets using this website. The relationship between the company manager, the employee, and the customer provides a positive link to complete the ticketing process. We designed the project so that the user can access as much data, detail and information as possible. In this project, a web page is provided to the user which can be used to book movie tickets online. We used php as technology to implement as web page. Php has advantages such as increased performance, scalability, built-in security, and vulnerability. To build any website using PHP, we need a programming language like PHP. MySQL was used as the back-end database because it is one of the most popular open source databases, and provides fast, easy-to-configure, and flexible data. On the front end we used HTML and CSS.

Cinema Ticket Booking System" IEEE Transactions on Intelligent Transportation Systems, vol. 44, pp.865– 873.

[12] Romero C and Ventura S, (2016) "Online Movie Ticket Booking System" in ResearchGate.

[XI] REFERENCES

https://youtube.com/playlist?list=PL7sXjuC2T0RSuZWaTL_9MZFlsx_yjklZW&si=-ZjC8ze6Av2nDPDv

<https://youtube.com/playlist?list=PLF7Fmg1q6SPDzaXuSmYRuK mzET9jNq8lB&si=UQ7-4gbcYhTjjFZa>

<https://youtube.com/playlist?list=PLBksHKiCgmdCmyfiuyxHQ23ZfcAIUo1AF&si=FkWJz8riXUGLJExr>

<https://www.slideshare.net/slideshow/online-ticket-reservation-systemsrs-erd-dfd-structured-charts/250905800>

[1] Rastogi T. Online Movie Booking System. 2021

[2] Bui, K. Application For Booking Movie Tickets Online. 2022

[3] Jacob J. Online Cinema Ticket Booking. 2021

[4] Renugadevi S, Sakthiprasath, R Kalaiselvi, P RRamakrishnan, P Kumar LS. And Gomathi, S. A Study on Customers Attitude Towards Online Ticket Booking During Covid-19 With Special Reference To Coimbatore City. Journal of Pharmaceutical Negative Results, pp.2489-2495. 2022

[5] Dr.S.M.Yamuna, R.Shiji. Customer Preference And Satisfaction Towards Online Movie Ticket Booking System. 2020

[6] Diego Buenaño Fernández, Sergio Luján-Mora, (2017) "Ticket Reservation System for the Millennium Forum" IEEE Transaction vol.30, pp.105–111.

[7] Jaganath M., Raj Kumar R. (2016) "User Intention towards the Use of Movie Tickets Booking Applications" IEEE Transactions, vol. 22, pp.301– 380.

[8] Karthiya Banu R, Ravanani (2015) "JOBS: Javacardbased Online-ticket Booking System" IEEE Transaction Knowledge and Information Systems, vol. 32, pp.345– 400
Karthiya Banu R, Ravanani (2015) "JOBS: Javacard-based Online-ticket Booking System" IEEE Transaction Knowledge and Information Systems, vol. 32, pp.345– 400.

[9] Mohammad Ashhar Saleem Khan¹, Dyuti Jain², IEEE, and Florin Leon², (2018) "Movie Ticketing Website" in IEEE vol.21, pp.216-363.

[10] Prof. Prithviraj Y J¹, S Vaishnavi², Swathi R³, Vemala Susmitha⁴, (2017) "Online Movie Ticket Reservation" IEEE Transactions on Intelligent Transportation Systems, vol. 171, pp.724 1733.

[11] Rahul Rajouria, Vishal Yadhav, Ruchika Mishra, and Swadi Jain, (2019) "Online