



## Movie Ticket Booking System

Summer 2023

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Course : CSE 482 (Internet and Web Technology)

Section : 02 Group: 01

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Date : 16 August, 2023

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# Introduction

The Online Movie Ticket Booking System is a web-based platform designed to simplify the process of purchasing movie tickets online. In today's fast-paced world, people seek convenience and efficiency in their daily tasks, and the entertainment industry is no exception. This system provides users with the ability to browse through available movies, access detailed information about each movie, view showtimes, select seats, and securely purchase tickets without the hassle of visiting a physical theatre or box office. The Online Movie Ticket Booking System aims to provide a seamless and user-friendly experience for movie enthusiasts, allowing them to browse, book, and enjoy movies with utmost convenience. This project addresses the demands of modern moviegoers by offering a technologically advanced solution that enhances their entertainment experience and simplifies the process of purchasing tickets for the latest cinematic releases.

## Background and Product Context

Movie theaters have been a popular form of entertainment for decades. People enjoy watching movies on the big screen, and theaters provide a social environment where friends and families can gather to enjoy a film together. However, the traditional process of buying movie tickets involved physically going to the theater and purchasing tickets at the box office. This often led to long queues, limited seating availability, and inconvenience for customers. With the rise of technology and the internet, there emerged a need to streamline the process of booking movie tickets. This gave birth to online movie ticket booking systems, which aimed to make the ticket booking process more convenient, efficient, and user-friendly.

A movie ticket booking system is an application that allows customers to browse available movies, showtimes, and theater locations, and then book tickets for their preferred showtimes. The product context involves several key components:

1. **User Interface:** The system typically has a user-friendly interface that displays a list of currently playing movies, along with details such as movie synopses, trailers, showtimes, and theater locations. Users can select their preferred movie and showtime.
2. **Seat Selection:** In addition to choosing the movie and showtime, users can often select specific seats in the theater. This feature is especially important for larger groups or those who have specific seating preferences.
3. **Payment Processing:** The system integrates with online payment gateways, allowing users to pay for their tickets securely using various payment methods, such as credit/debit cards, digital wallets, or other online payment systems.

4. **Account Management:** Many systems offer user accounts that allow customers to save their preferences, track booking history, and receive notifications about upcoming movies and special offers.
5. **Booking Confirmation:** After completing the booking and payment process, users receive a booking confirmation through email or SMS, which serves as their electronic ticket.
6. **Integration with Theaters:** The system needs to integrate with the databases of different theaters, showing accurate showtimes, movie availability, and seating information in real-time.
7. **Mobile Apps:** To cater to the growing use of mobile devices, most movie ticket booking systems have mobile applications that offer the same functionality as the web platform.
8. **Customer Support:** A robust customer support system is crucial to handle issues related to booking, payment, cancellations, and any other queries customers might have.
9. **Feedback and Ratings:** Some systems allow users to provide feedback and rate their movie experiences, helping other users make informed decisions.

## User Story

### Use Case 1:

**TITLE:** User's Registration

**ACTOR:** User

**PURPOSE:** To Register by the users.

**DESCRIPTION:** The user who can access the website will be able to register into the system. The user must provide the User Name, Email, Password, Gender, Phone Number.

**EXCEPTION:**

I) Email does not match

Error: Please provide a valid email

II) Password must not be too short.

Error: Password should have both letter and digit.

### Use Case 2:

**TITLE:** User Login process

**ACTOR:** User

**PURPOSE:** To Login to the system by the user

**PRE-REQUISITE:** Search for a movie ticket booking website

**DESCRIPTION:** The registered user will be able to log in using the Email, Phone no, and Password, and the Non-registered user who will not be able to log in will click the Register Now button first. The log in process will be verified by an email system.

**EXCEPTION:**

I) Email does not exist

Error: This email is not registered yet. Please Register first.

II) Password does not match.

Error: Please provide a valid password.

III) Any field is not filled up.

Error: All the fields must be filled up

### **Use Case 3:**

TITLE: Forget Password by user

ACTOR: User

PURPOSE: To reset the password by user

PRE-REQUISITE: User Login process

DESCRIPTION: If the user has forgotten password. He can reset password for getting his account back. he can click in the " Forget password" option. Then a email having reset password link will be sent to user. Using the link, user can change password and can get access to the account again.

### **Use Case 4:**

TITLE: Logout by user

ACTOR: User

PURPOSE: To logout by user

DESCRIPTION: If the user wants to logout he can click on the logout option given at the top of the bar. Thus after clicking "Logout" the entire session will be diminished for the user.

### **Use Case 5:**

TITLE: Logout by user

ACTOR: User

PURPOSE: To logout by user

DESCRIPTION: If the user wants to logout he can click on the logout option given at the top of the bar. Thus after clicking "Logout" the entire session will be diminished for the user.

### **Use Case 6:**

TITLE: Book Tickets by user

ACTOR: User

PURPOSE: To book Tickets by user

PRE-REQUISITE: Categorize movie search

**DESCRIPTION:** After searching for movies the user can select the desired movie and can find get tickets option. Clicking in the get tickets option, user can find the schedule of the show, ticket price and the desired cineplex, type of seats. Then a page for confirming ticket will appear on the screen.

### **Use Case 7:**

**TITLE:** Get confirmation for ticket by user

**ACTOR:** User

**PURPOSE:** To get confirmation for ticket by user

**PRE-REQUISITE:** Book Tickets by user

**DESCRIPTION:** For confirming tickets, a new screen will appear where a online receipt will be visible. The user will has to confirm to book a ticket. A confirmation mail along with the online receipt will be mailed to the user by the system.

### **Use Case 8:**

**TITLE:** Movie Search

**ACTOR:** User

**PURPOSE:** Searching Movie Through Search Bar

**DESCRIPTION:** User can only search movies after logging in to the system. At the top of navigation bar user can find the search bar. There user can simply enter the desired movie in the search bar and click enter. The movie details section will appear on the screen.

### **Use Case 9:**

**TITLE:** Categorize Movie Search

**ACTOR:** User

**PURPOSE:** Categorize Movie Search or Filter Search

**DESCRIPTION:** User can access to our web application after only verified log in process. There will a section page in our system named “Movie Filter Search”. There will be movie genres list and by clicking onto one of the lists, the movie list will appear. For example: If any user clicks on the action genre button, the action movie list will show on the screen.

### **Use Case 10:**

**TITLE:** Install on Mobile

**ACTOR:** User & Admin

**PURPOSE:** Using and Install as A Responsive Mobile Application

**DESCRIPTION:** Both user and admin can install our website as a mobile application on their phones, tablets etc. Our web application will be based on Progressive and Responsive Web App. So that our application will run into any device for its responsiveness.

### **Use Case 11:**

TITLE: Movie Details Page

ACTOR: User

PURPOSE: Details of Movie Page Section such as Cast, Runtime etc.

DESCRIPTION: Whenever user search movies or click on any movie names, it will redirect to the movie details page from backend service. Every movie will have a unique id from the database. So, by clicking on the movie name it will match the exact id and redirect to details page and view its all information based on the unique id. The details page section will have information like runtime, casting, directors, trailer, poster, genre etc.

### **Use Case 12:**

TITLE: Admin Login

ACTOR: Admin

PURPOSE: Login to the admin

DESCRIPTION: The admin is already registered to the web application, the admin will be able to login into the software.

### **Use Case 13:**

TITLE: Admin CRUD Operations

ACTOR: Admin

PURPOSE: To manage the movie list by performing Create, Read, Update, and Delete operations

DESCRIPTION: The admin has the responsibility to manage the movie list in the software. They can perform various CRUD (Create, Read, Update, Delete) operations on the movie list to ensure that users have access to an accurate and up-to-date movie collection.

### **Use Case 14:**

TITLE: Admin Checking Report Status

ACTOR: Admin

PURPOSE: To view the current status of generated reports

DESCRIPTION: The admin wants to check the status of various reports that are generated by the software. These reports might include sales reports, user activity reports, and other analytical data. The admin needs to ensure that the reports are being generated accurately and on time, and they want to be informed about any potential issues or delays in report generation.

### **Use Case 15:**

TITLE: Admin Forgot Password



ACTOR: Admin

PURPOSE: To reset the password for an admin who has forgotten their login credentials

DESCRIPTION: The "Admin Forgot Password" functionality allows administrators who have forgotten their password to regain access to their account by resetting their password through a reset link which is sent by mail.

### **Use Case 16:**

TITLE: Chatbot Helper

ACTOR: User

PURPOSE: To Instruct the User by Replying Question

DESCRIPTION: A chatbot helper will be added to our website. User can frequently ask question there. Chatbot will reply based on the question according to the database store. For example: In the database, a column added for question like "Hello", the reply column will be "Hello" or "Hi". So, if any users type to the chatbot by questioning "Hello", the chatbot will reply back "Hello or Hi".

### **Use Case 17:**

TITLE: Upcoming Movie Section Page

ACTOR: User

PURPOSE: To See the Upcoming Movie Lists for Advance Booking

DESCRIPTION: A detailed page of upcoming movie list will be added on our web application. Whenever an user clicks on that particular link, the upcoming movie list will appear based on the real time date method of javascript. Here user can also see the pre booking button.

### **Use Case 18:**

TITLE: Pre-Booking Movie

ACTOR: User

PURPOSE: User Can Book Tickets Based on Upcoming Movie Lists

DESCRIPTION: User after viewing the upcoming movie lists section page, there will be button called pre booking. By simply clicking on that particular button, it will redirect to the checkout page and check if there are any seats for pre booking purposes. If any seats available, then user can go through next process and purchase the advance booking ticket and get confirmation mail for pre-booking.

## **Solution Description**

## Front-end plan

User and Admin Features:

1. Home page
2. Login & registration page
3. Search movies result page
4. Movie details page
5. Upcoming movies page
6. Current shows page
7. Book movies page
8. Payment slip details page
9. Admin working page

## Back end development

Account Creating and Password Recovery:

1. Sign up and log in form and verification by email.
2. Google login
3. Forgot Password
4. MySQL Database

Profile Management:

1. User profile
2. Admin profile

Searching Facility:

1. Movie genre based
2. Movie title search
3. Desired cineplex search

## Development Plan

### Phase 1: Interface Design and Front-End Development (Week 1-2):

Week 1-2:

Create wireframes and mockups for the website's main pages (home, movie listings, booking, user profile, etc.).

1. Decide on the overall color scheme, typography, and visual elements.
2. Start implementing the front-end using HTML, CSS, and JavaScript:
  - Set up the project structure with appropriate folders.
  - Develop the home page with dynamic content placeholders.
  - Create a responsive design to ensure the website works well on different devices and screen sizes.
  -

## **Phase 2: Back-End Development and Database Integration (Week 3-5):**

Week 3:

Set up the server environment:

- Choose a web server and set it up.
- Install PHP and configure the environment.
- Develop the database schema for storing movies, users, bookings, and other relevant features.

Week 4:

Start back-end development using PHP:

- Create the necessary PHP scripts for user authentication and registration.
- Develop API endpoints for retrieving movie information and user data.
- Implement basic validation and error handling.

Week 5:

Complete back-end development and database integration:

- Build API endpoints for booking tickets and updating user profiles.
- Integrate the front-end with the back-end using AJAX or Fetch API for dynamic content loading.
- Test the interaction between the front-end and back-end systems.

## **Phase 3: Hosting, API Calls, and Integration (Week 6-8):**

Week 6:

Choose a hosting provider and set up the environment for deployment (e.g., shared hosting, cloud hosting).

- Configure the domain name and set up SSL certificates for secure connections.

Week 7:

- Implement external APIs for features like payment gateways and movie data.
- Integrate the booking process with a payment gateway for secure and smooth transactions.
- Conduct thorough testing of the website's functionality and security.

Week 8:

- Optimize the website for performance:

- Minify and compress CSS, JavaScript, and images.
  - Implement caching mechanisms to reduce load times.
- Conduct load testing to ensure the website can handle multiple users simultaneously.

## Phase 4: Final Demonstration and Deployment (Week 9-10):

Week 9-10:

- Prepare the website for deployment:
- Identify and fix any bugs, performance issues, or security vulnerabilities.

## Project Schedule

Whole project will take a total of 10 weeks from the day of start.

Objective/Time	Phase 01		Phase 02			Phase 03			Phase 04	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Interface Design and Front-End Development										
Back-End Development & Database Integration										
Hosting, API Calls, and Integration										
Final Demonstration and Deployment										

## Project Github Link

[Movie Ticket Booking System](#)

## Special Features

1. PWA App
2. Chatbot Helper
3. QR Scanner Ticket
4. Upcoming Movie Category Show
5. Verified Log in through Email
6. Trailer Section in Movie Details
7. Pre Order Ticker Booking