B.M.S. COLLEGE OF ENGINEERING BENGALURU-19

(Autonomous College, Affiliated to VTU)

Department Of Computer Applications

Report on

"MYSHOWZ – MOVIE TICKET BOOKING WEBSITE"

Submitted to fulfil the requirements of

INTERSHIP (22MCA4NTIP)

SUBMITTED BY

SANDHYA S

(1BM23MC080)

Under the guidance of

Prof. S Shipla

Assistant Professor

B.M.S. COLLEGE OF ENGINEERING BENGALURU-19

(Autonomous College, Affiliated to VTU)

Department Of Computer Applications

CERTIFICATE

This is to certify that the internship work entitled "Myshowz-**Movie Ticket Booking Website**" is a bonafide work carried out by **Sandhya S (1BM23MC080)**, student of **Master of Computer Applications Department, B.M.S. College of Engineering.** This internship report has been submitted during the academic year **2024-25** in partial fulfillment of the requirement of the degree of Master of Computer Applications IV Semester.

Internal Guide

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Prof. S Shilpa

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CERTIFICATE

Dyashin

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Internship Completion Certificate

Date: 24 January 2025
Sr. No.: IN-BG-CIP-0125-128

To Whom It May Concern

This is to certify that **Ms. Sandhya S**, a student of **BMS College of Engineering, Bengaluru,** has successfully completed the Campus Internship Program from **25 November 2024** to **03 January 2025** at **Dyashin Technosoft Pvt Ltd., Bengaluru.**

During the internship, she worked extensively on **Java Full Stack** and was involved in various projects and tasks.

Ms. Sandhya S, demonstrated exceptional skills in Java Full Stack and showed a keen interest in learning and applying new technologies. Her performance was commendable, and she successfully met all the internship requirements and objectives. She also participated in a practical application case study to implement the learned concepts.

We are confident that Ms. Sandhya's experience and the skills gained during this internship will significantly contribute to her academic and professional growth.

We wish her all the best in her future endeavours.

Sincerely,

DYASHIN TECHNOSOFT PRIVATE LIMITED ★ Bangalore

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DECLARATION

I hereby declare that this project entitled **"Myshowz-Movie Ticket Booking Website"** carried out at INNOVATION , is a report of project work submitted to the **Department of Computer Applications, B.M.S. College of Engineering,** affiliated to **Visvesvaraya Technological University** is an original work completed by me.

To the best of my knowledge this report has not been submitted to any other college or university or published at any time prior to this.

Date: 06-06-2025 **Name: Sandhya S**

Place: Bangalore **USN: 1BM23MC080**

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ACKNOWLEDGMENT

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ABSTRACT

MyShowz is a modern web-based application developed to simplify and digitize the movie ticket booking process. It provides users with a seamless interface to browse currently running and upcoming movies, view show timings, select cinemas, and book seats with real-time availability. The goal is to replace traditional ticketing systems with a faster, more convenient, and paperless solution that enhances the movie-going experience.

The application includes essential features such as user registration and login, dynamic movie listings, responsive seat selection, and booking confirmation. It is built using front-end technologies like HTML, CSS, and JavaScript, along with server-side scripting and database management to handle user data and movie schedules. The system is designed to work efficiently across devices, offering a responsive layout and smooth user interaction on desktops, tablets, and smartphones.

MyShowz also sets the groundwork for future expansion. Planned enhancements include integration with payment gateways, QR-code based digital ticketing, mobile app versions, customer reviews, and AI-driven personalized recommendations. With its robust architecture and user-focused design, MyShowz aims to become a reliable and scalable platform for online cinema ticketing in the entertainment industry.

TABLE OF CONTENTS

MYSHOWZ – MOVIE TICKET BOOKING WEBSITE

1.INTRODUCTION:

In the digital age, convenience and accessibility play a crucial role in shaping user experiences across industries, including the entertainment sector. Traditional movie ticket booking methods—such as long queues at cinema counters or unresponsive booking portals—often lead to customer dissatisfaction and missed opportunities. To overcome these challenges, MyShowz was developed as an intuitive and responsive web application aimed at transforming the way users book movie tickets.

MyShowz offers a platform where users can seamlessly explore now-showing and upcoming movies, select preferred theaters, choose show timings, and book seats in real-time. The system simplifies the ticketing process by integrating key features such as user authentication, dynamic seat layout visualization, and movie filtering by location or genre. Its modern interface and responsive design ensure a smooth experience across devices, whether on desktops, tablets, or smartphones.

The application not only caters to end users but also provides an admin interface to manage movie listings, schedules, and seat availability. Designed with scalability in mind, MyShowz can be further extended to include online payments, digital ticket generation via QR codes, push notifications, and personalized recommendations. As a project, it reflects the increasing demand for smart, user-friendly digital solutions in the cinema and entertainment domain.

2. SCOPE OF THE PROJECT

The **MyShowz** project is designed to provide a comprehensive online movie ticket booking system that enhances the experience for both users and administrators. Its primary goal is to allow users to browse movies, view detailed information, select show timings, choose their seats, and book tickets—all from the comfort of their devices. The system is intended to eliminate manual intervention, reduce wait times, and provide a more flexible and efficient movie booking process.

This project supports core functionalities such as user registration and login, categorized movie browsing (e.g., now showing, coming soon), dynamic seat selection, and booking confirmation. Administrators can manage movie listings, show schedules, and seat arrangements through a secure backend interface. The web application is built to be fully responsive, ensuring seamless usage across mobile phones, tablets, and desktops.

In the future, **MyShowz** can be expanded with additional modules such as payment gateway integration, e-ticket generation with QR codes, SMS/email notifications, loyalty points for frequent users, AI-based movie recommendations, and analytics dashboards for theater management. These features would transform MyShowz from a basic booking platform into a full-fledged smart cinema management system.

3. SYSTEM ANALYSIS

3.1 Existing System

Traditional movie ticket booking often relies on manual processes or outdated websites with limited interactivity and poor user experience. Users must visit the cinema or use non-intuitive portals, leading to long queues, delays, and frequent errors. These systems typically lack real-time seat availability, secure user accounts, and flexibility in managing bookings.

Moreover, such platforms do not support advanced features like digital payments, seat selection visualization, or personalized content. The lack of mobile responsiveness also restricts accessibility for users on smartphones or tablets.

3.2 Drawbacks of Existing System

- **Time-consuming:** Manual booking or slow portals lead to user frustration.
- **Lack of Real-Time Updates:** Seat availability and schedules aren't updated instantly.
- **No Digital Ticketing:** Paper tickets are still common, which can be lost or misplaced.
- **Poor User Experience:** Many systems are not responsive or optimized for modern devices.
- **Limited Admin Control:** Theater admins cannot easily manage schedules, movies, or bookings.
- **No Personalization:** Users don’t get recommendations or notifications based on their preferences.
- **Security Concerns:** Inadequate login systems put user data at risk.

4. SOFTWARE REQUIREMENTS SPECIFICATIONS

4.1 Functional Requirements

1. **User Registration and Login**
    - Secure sign-up and login functionality for users and admin.
2. **Browse Movies**
    - Users can view now-showing and upcoming movies with details like genre, duration, and rating.
3. **Search and Filter**
    - Movies can be searched and filtered based on language, genre, location, and showtime.
4. **Seat Selection and Booking**
    - Interactive seat layout for real-time selection and booking of available seats.
5. **Booking History**
    - Logged-in users can view past bookings and download ticket confirmations.
6. **Admin Panel**
    - Admins can add/edit/delete movies, assign showtimes, and manage theater details.
7. **Responsive Design**
    - Website layout adapts to all devices (desktop, tablet, mobile).

4.2 Non-Functional Requirements

1. **Performance**
    - Pages should load within 2 seconds under normal load.
2. **Scalability**
    - System should support increasing users and bookings without performance drop.
3. **Security**
    - Passwords encrypted, secure sessions, and admin-only access for critical data.
4. **Availability**
    - Uptime goal of 99.9% with backup recovery mechanisms.
5. **Usability**
    - Intuitive navigation, consistent UI, and minimal clicks to complete a booking.
6. **Responsiveness**
    - Compatible with all screen sizes and browsers.
7. **Maintainability**
    - Modular codebase for easy bug fixes and feature updates.
8. **Localization (Optional)**
    - Future support for multiple languages and regional settings.

4.3 Hardware Requirements

- **Processor:** Intel Core i3 or above
- **RAM:** Minimum 4 GB
- **Storage:** 250 GB HDD or SSD
- **Monitor:** 15” or higher with 1024x768 resolution
- **Network:** Stable internet connection for client-server interaction

4.4 Software Requirements

- **Frontend:** HTML, CSS, JavaScript, Bootstrap
- **Backend:** PHP / Node.js (based on project files)
- **Database:** MySQL or MongoDB
- **Web Server:** XAMPP / Apache / Express.js
- **Operating System:** Windows 7/10 or Linux
- **Browser:** Google Chrome, Firefox, Safari

5. DESIGN

5.1 UML Diagram

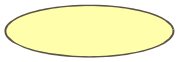
UML (Unified Modeling Language) diagrams help visualize the structure and behavior of the system, making it easier to understand and implement the required functionalities.

Actor:

A coherent set of roles that users of use cases play when interacting with the use `cases.

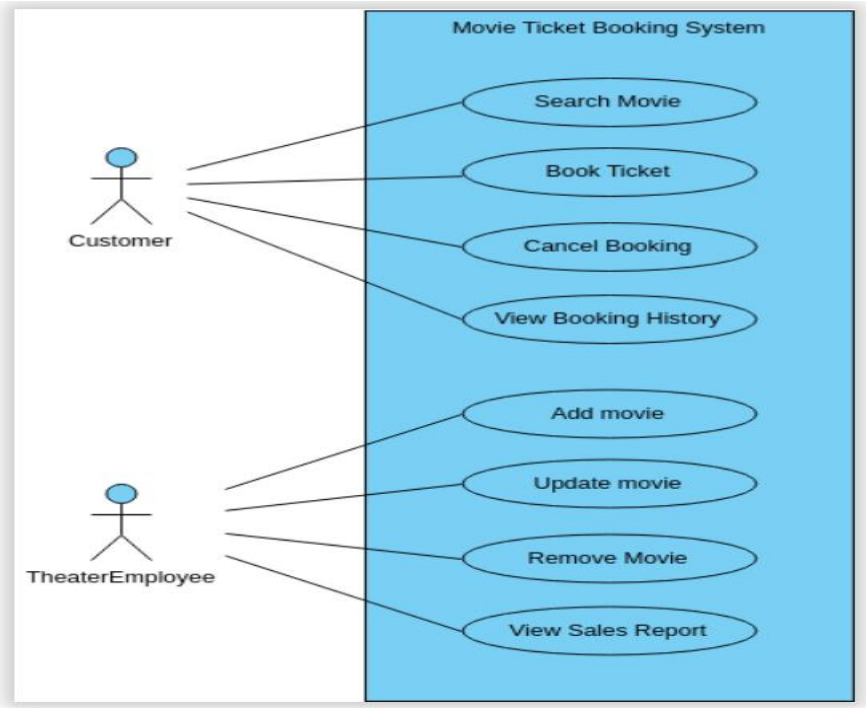
Use case:

A description of sequence of actions, including variants, that a system performs that yields an observable result of value of an actor.



5.1.1 Use Case Diagram

This diagram shows the interactions between users (Customer and Admin) and the system:



Actors:

- User (Customer)
- Admin

Use Cases for Users:

- Register/Login
- Browse Movies
- Select Show & Seats
- Book Tickets
- View Booking History

Use Cases for Admin:

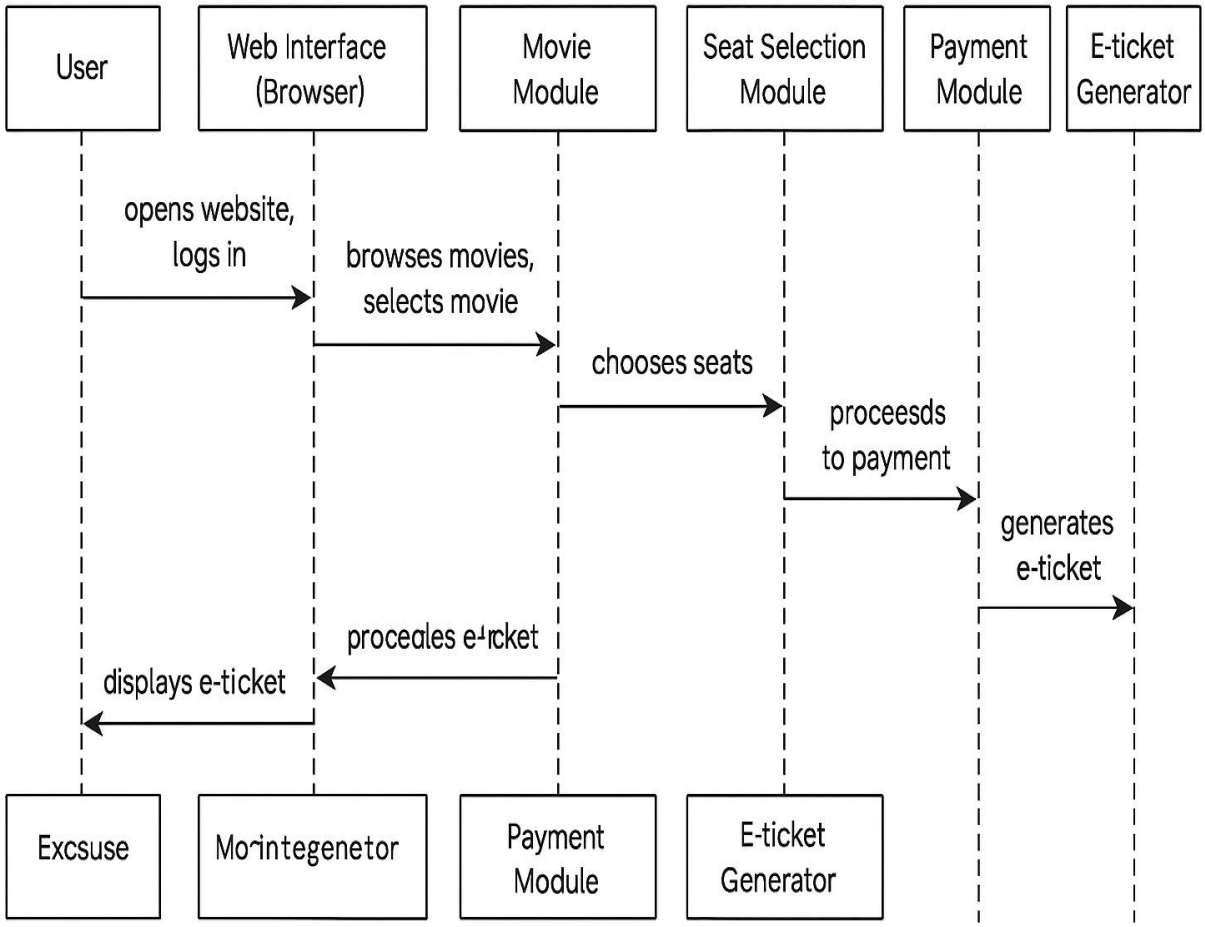
- Login
- Add/Edit/Delete Movies
- Set Show Timings
- View Bookings

5.1.2 Sequence Diagram

The sequence diagram illustrates the flow of events during a typical ticket booking process:

For User Booking Flow:

1. User logs in
2. User selects a movie and showtime
3. System displays available seats
4. User selects seats and confirms booking
5. System stores booking details and displays confirmation

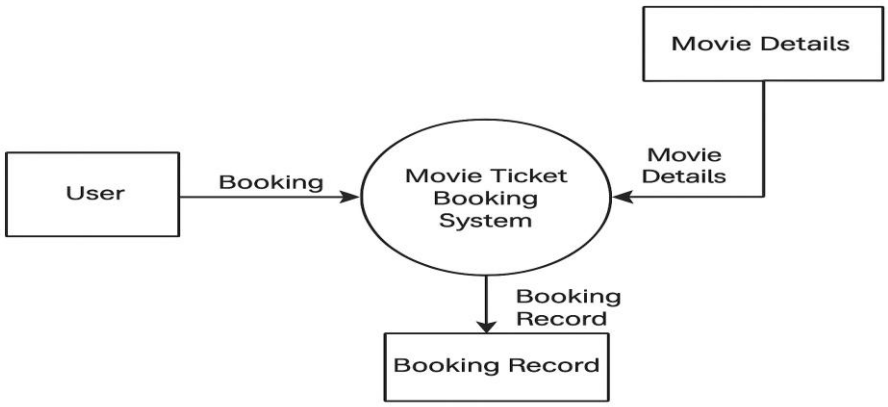


Sequence Diagram: User Ticket booking flow

5.1.3 Data Flow Diagram (DFD)

Level 0 (Context Diagram):

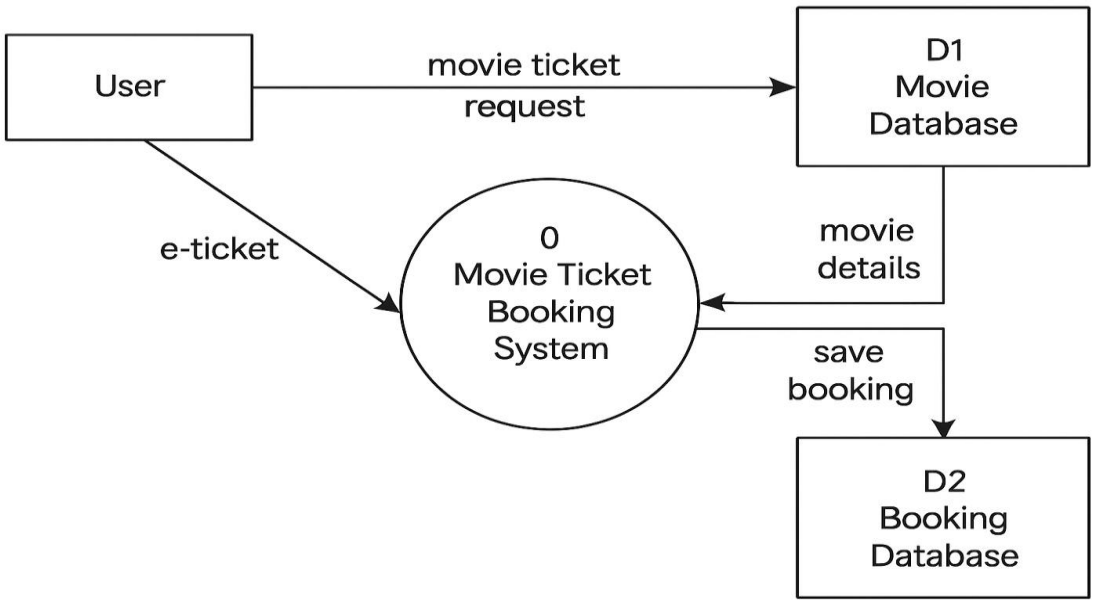
Shows the entire system as a single process interacting with external entities like the user and admin.



Level 1 DFD:

Breaks the system into main modules:

- User Authentication
- Movie Listing
- Seat Booking
- Admin Management
- Database interactions



5.1.4 Entity-Relationship (ER) Diagram

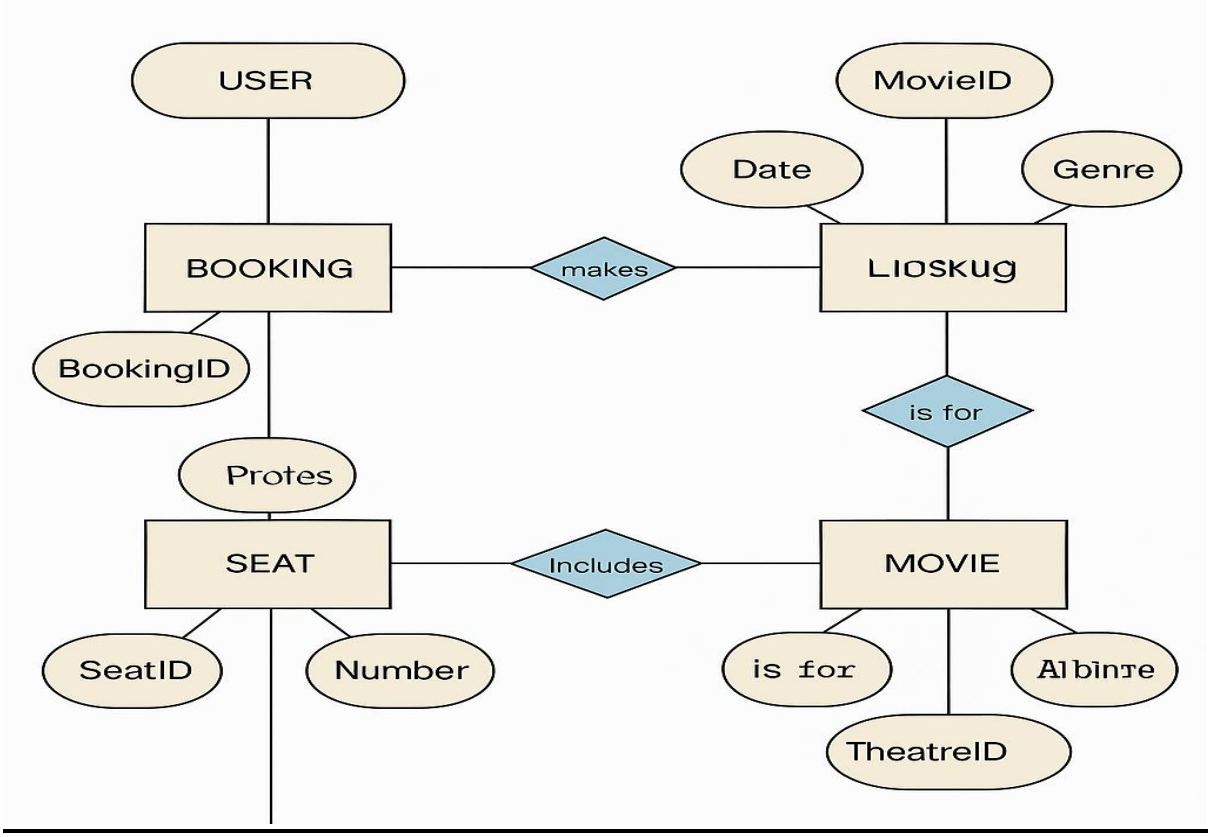
This diagram represents the database structure with relationships:

Entities:

- **User:** (UserID, Name, Email, Password)
- **Movie:** (MovieID, Title, Genre, Language, Duration)
- **Showtime:** (ShowID, MovieID, Theater, Time, Date)
- **Booking:** (BookingID, UserID, ShowID, Seats, Status)
- **Admin:** (AdminID, Username, Password)

Relationships:

- A **User** can make multiple **Bookings**
- A **Movie** can have many **Showtimes**
- Each **Booking** is linked to a **Showtime**



6. IMPLEMENTATION

6.1 Technologies Used

- **Frontend Technologies:**
  - **HTML5 & CSS3:** Used for structuring and styling web pages.
  - **JavaScript:** Adds interactivity to forms, seat selection, and real-time updates.
  - **Bootstrap:** Ensures responsive design for all screen sizes.
- **Backend Technologies:**
  - **PHP** or **Node.js** : Handles server-side logic, form processing, and session management.
  - **MySQL / MongoDB:** Stores user data, movie details, showtimes, and booking history.
- **Additional Tools:**
  - **XAMPP / Apache / Express.js:** For running the local server.
  - **phpMyAdmin:** Database management interface (if using MySQL).
  - **GitHub / Git:** Version control and project collaboration.

6.2 Key Modules Implemented

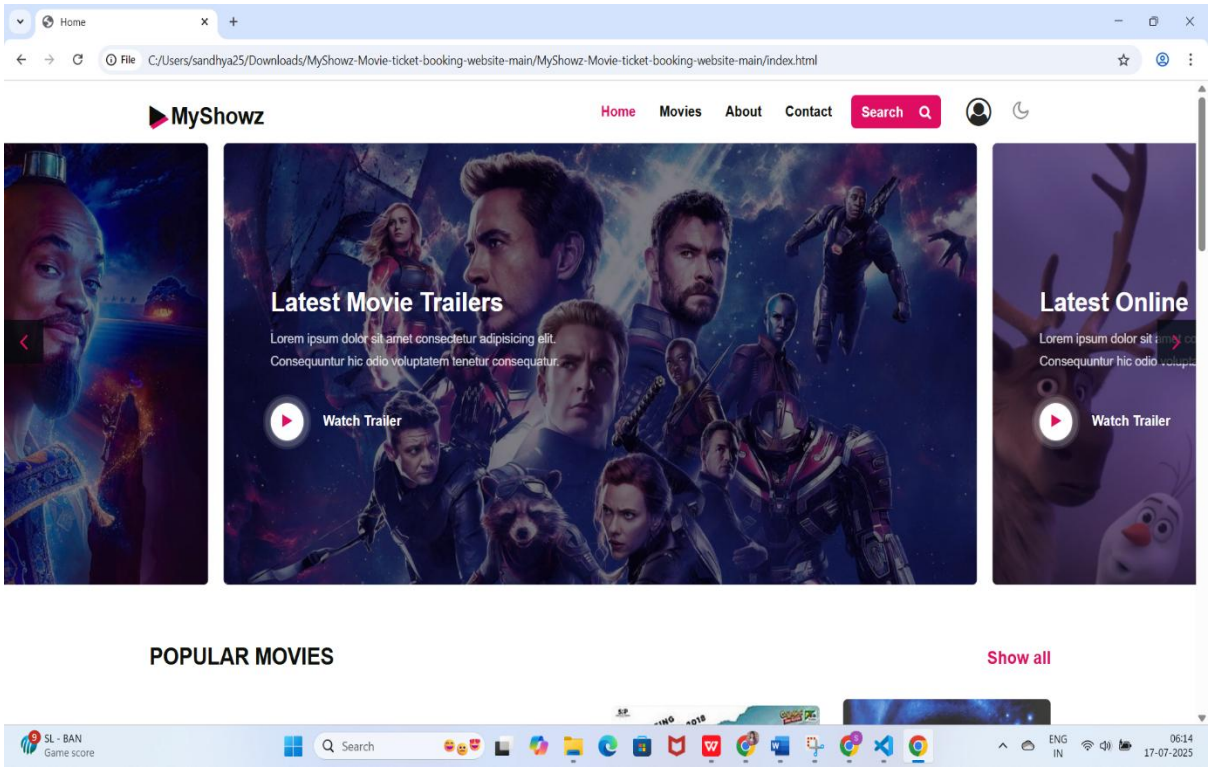
1. **User Registration & Login:**
   - Allows secure authentication using session or JWT-based systems.
   - Prevents unauthorized access to booking features.
2. **Movie Listings Page:**
   - Displays all movies with poster, genre, language, and showtimes.
   - Users can sort or filter by date, location, or type.
3. **Booking & Seat Selection:**

- Real-time seat layout with color-coded availability.
- Users select seats and proceed to confirmation.

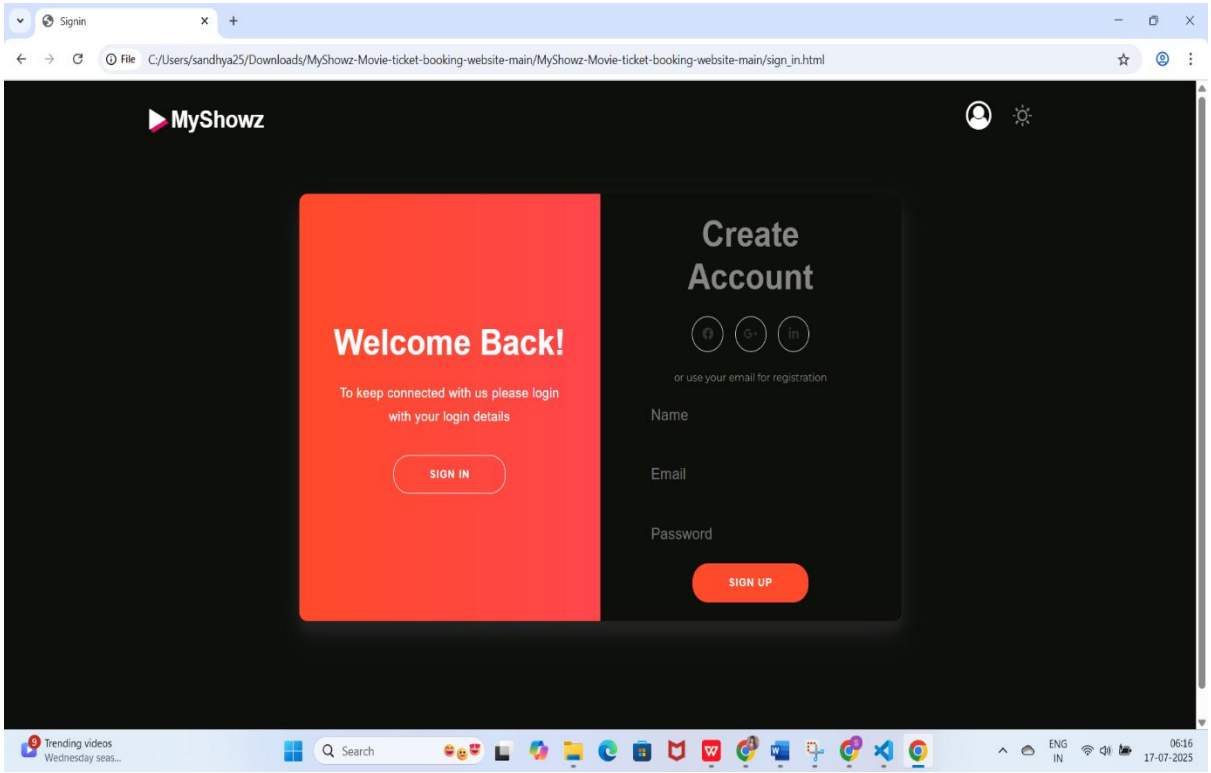
4. **Cart & Checkout:**
   - Confirms selected seats, date, and time before booking.
   - Generates a summary ticket confirmation after submission.
5. **Admin Panel:**
   - Admins can add/edit/delete movies, set showtimes, and view user bookings.
   - Provides content management capabilities for the platform.
6. **Responsive Design:**
   - Ensures optimal experience on desktops, tablets, and mobile devices.

6.3 SCREENSHOTS:

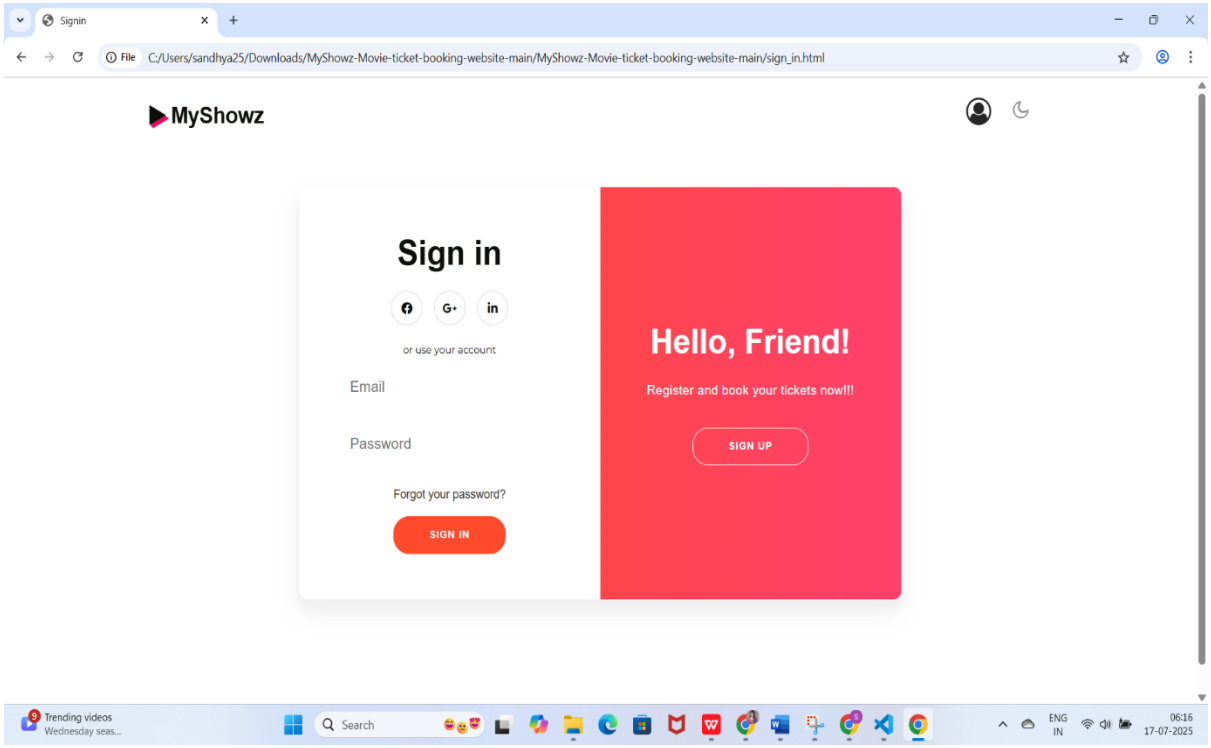
Home Page:



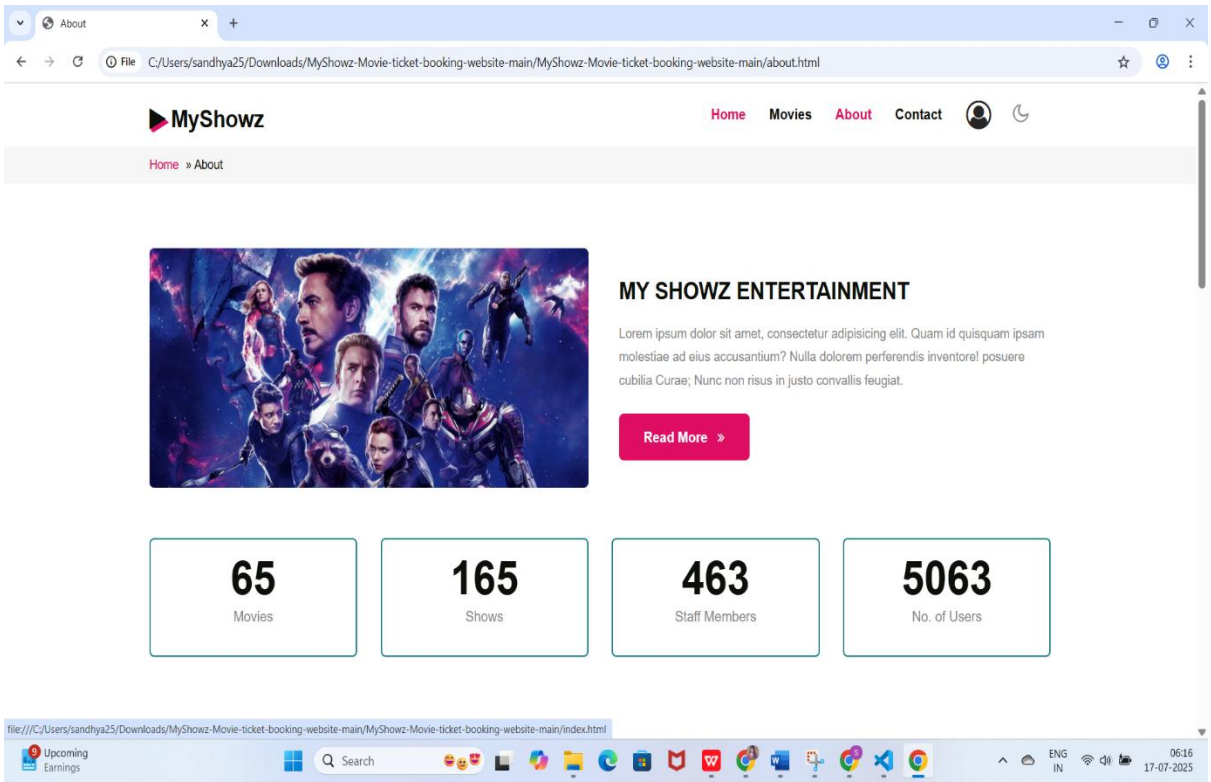
Sign Up Page:



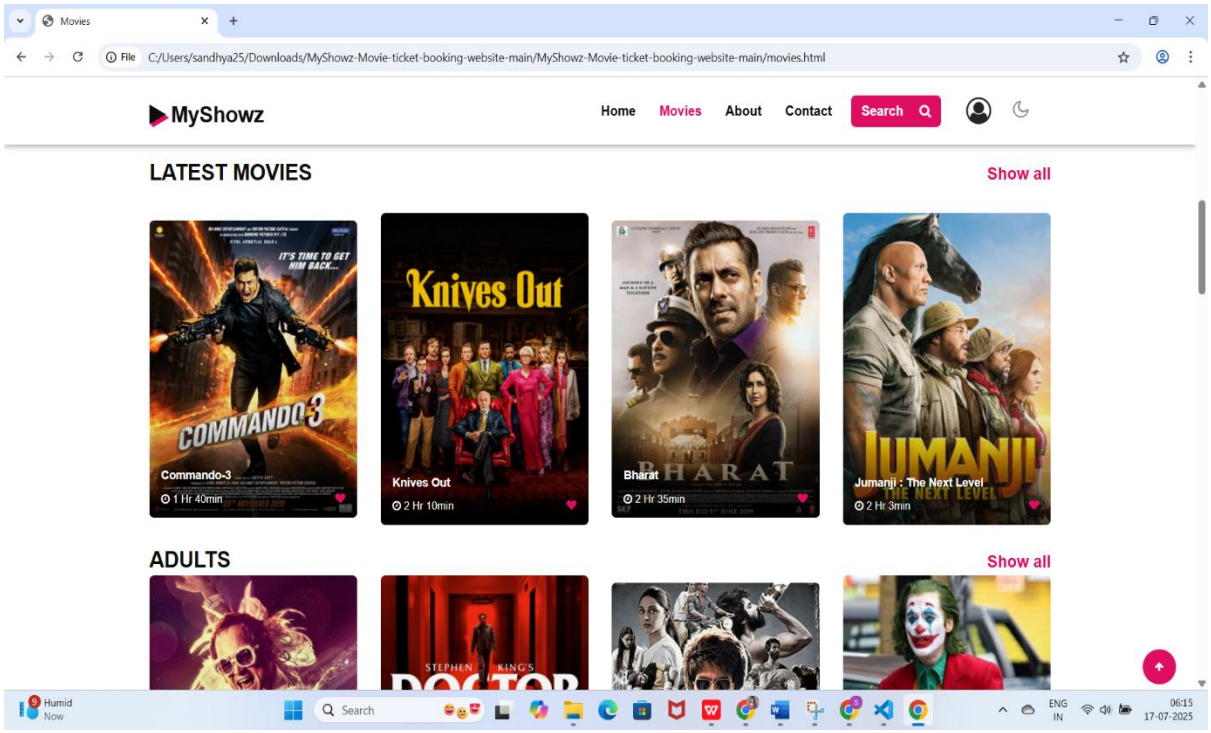
Sign In Page:



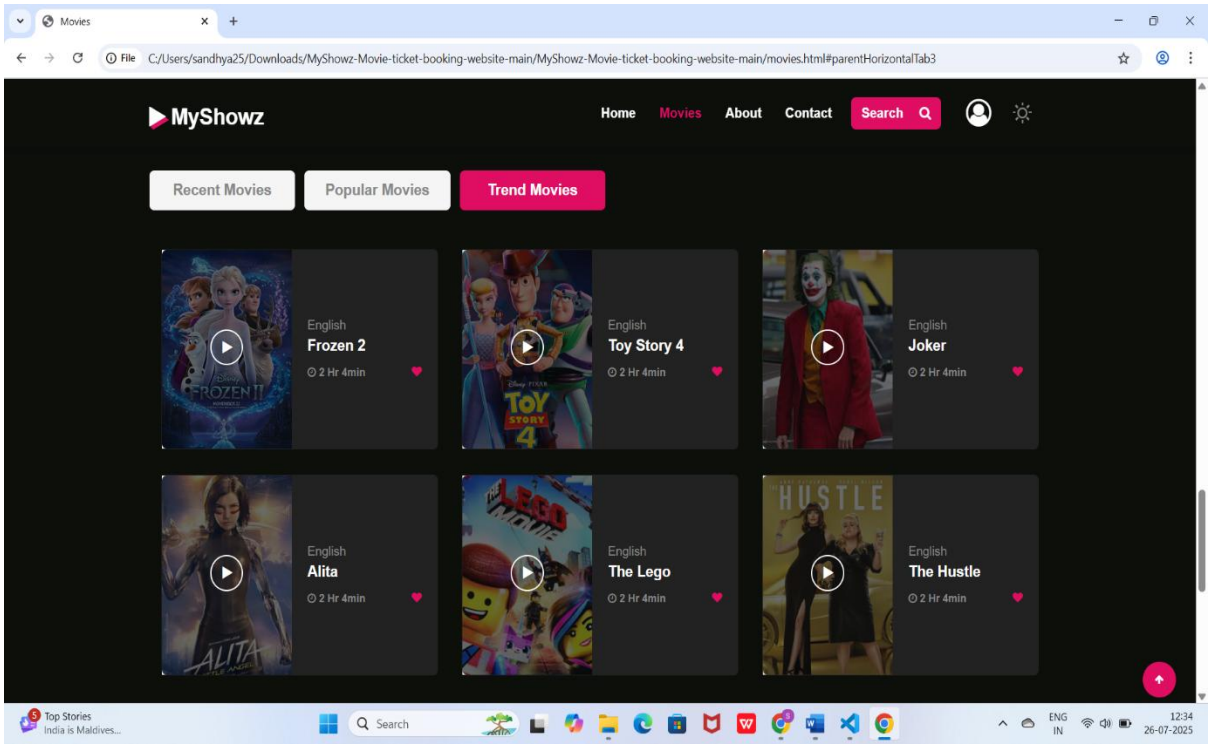
About Us Page:



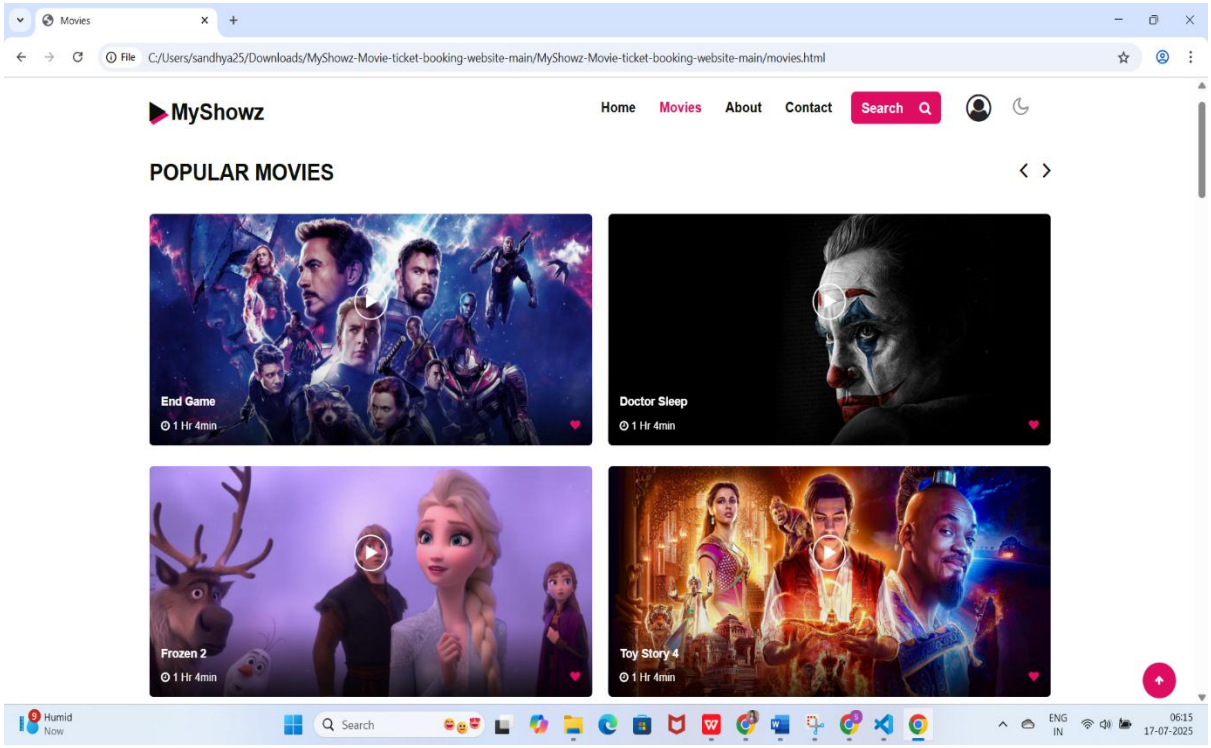
Recent Movies:



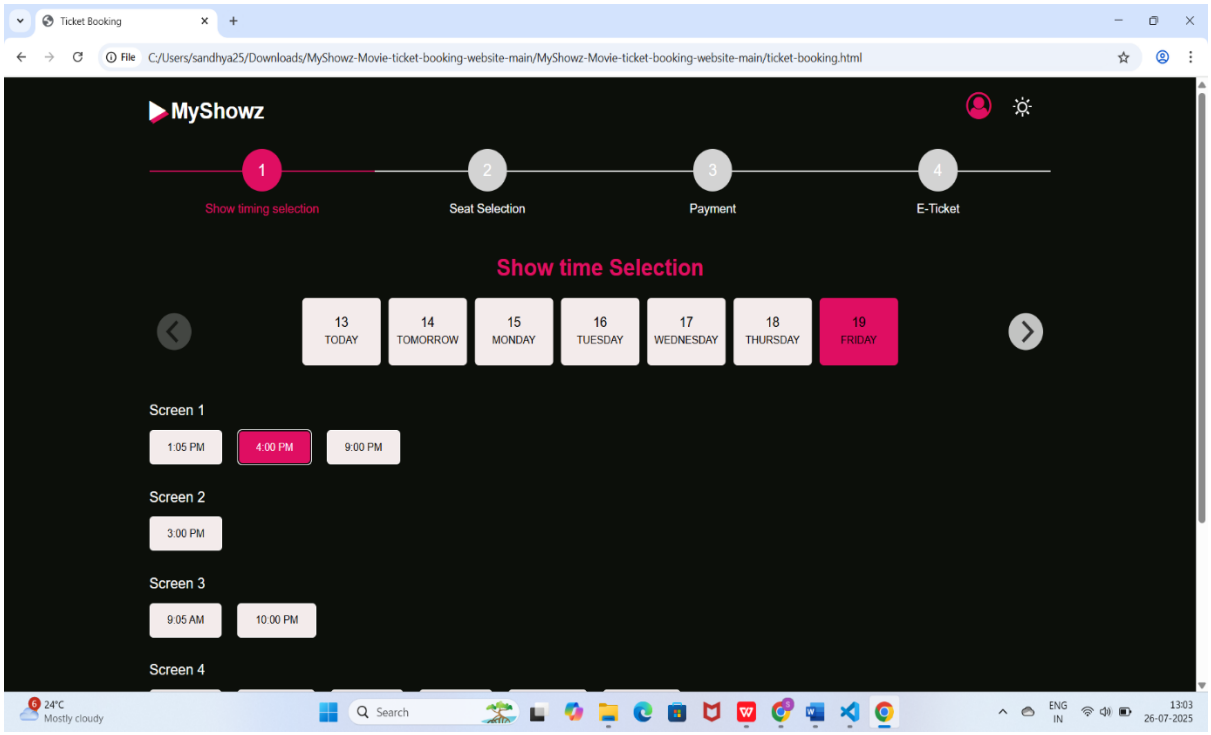
Trendy Movies:



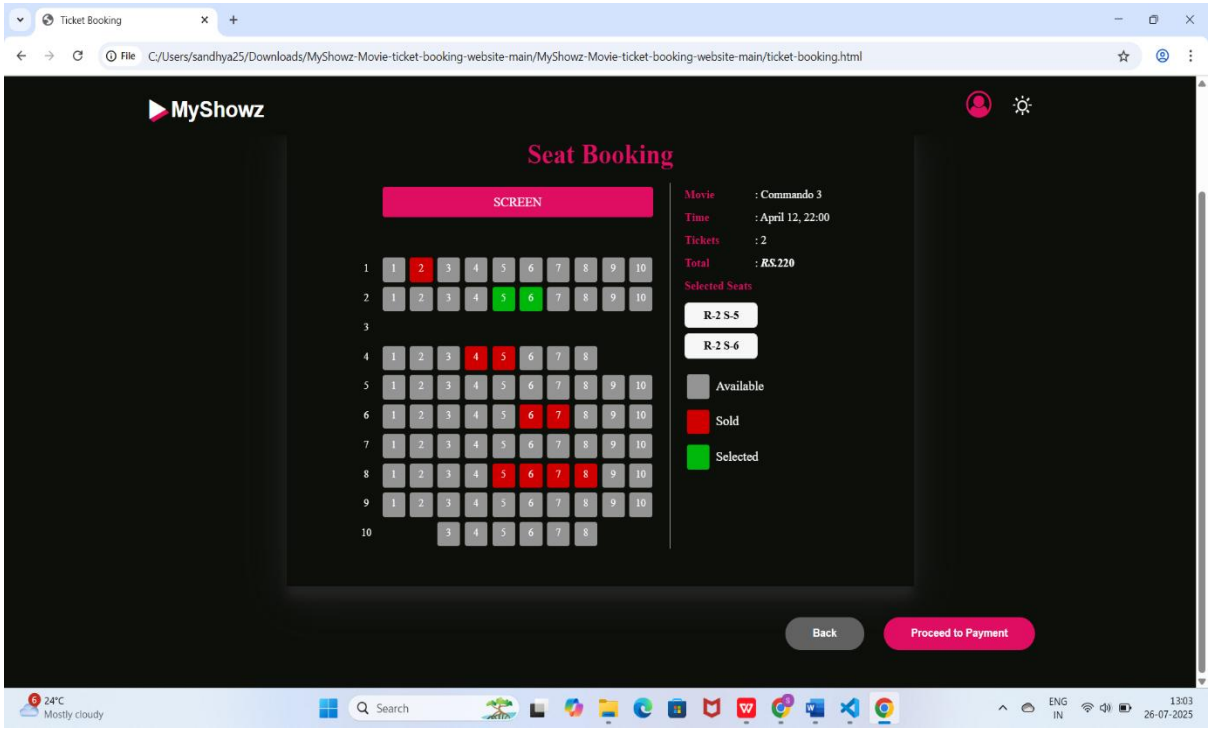
Popular Movies:



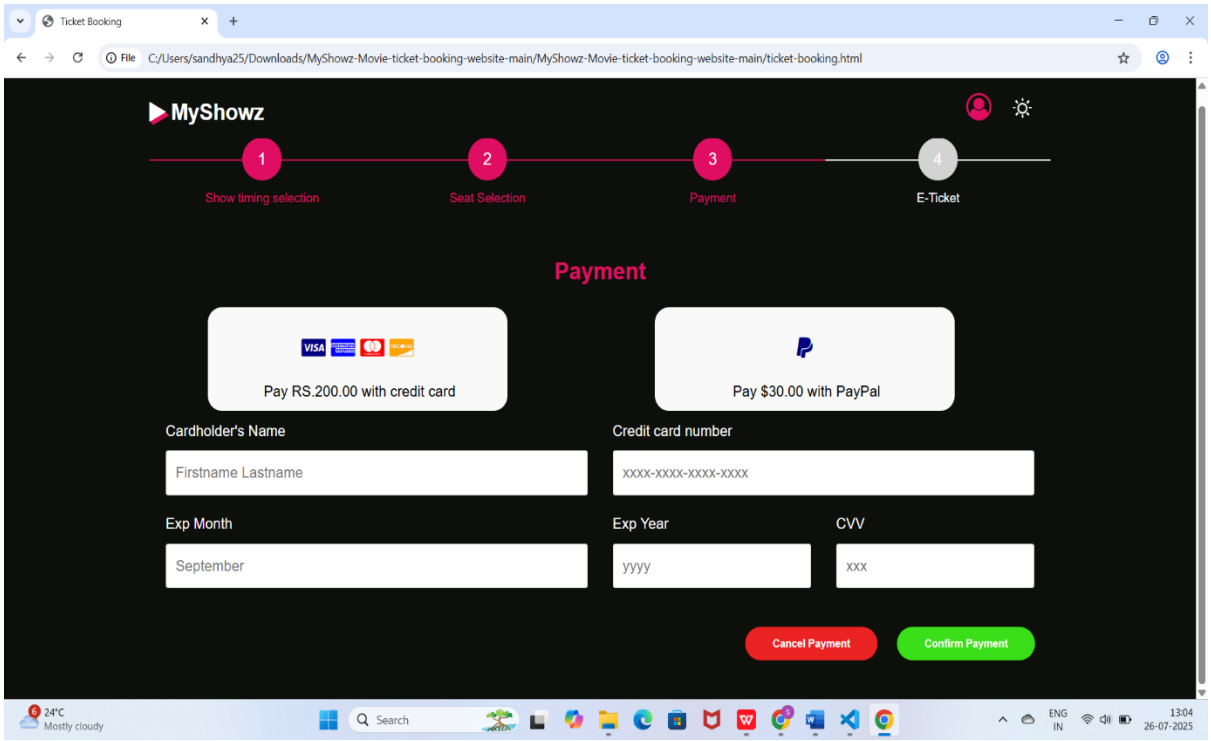
Shows Timing Selection:



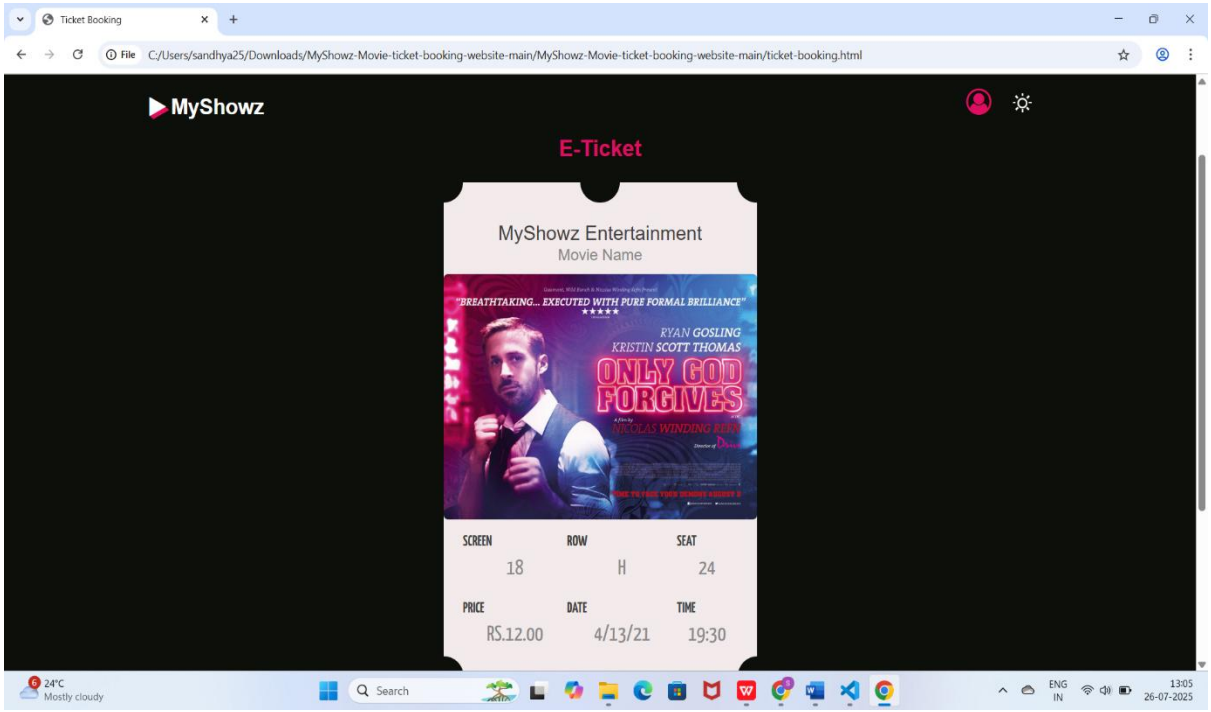
Seat Booking:



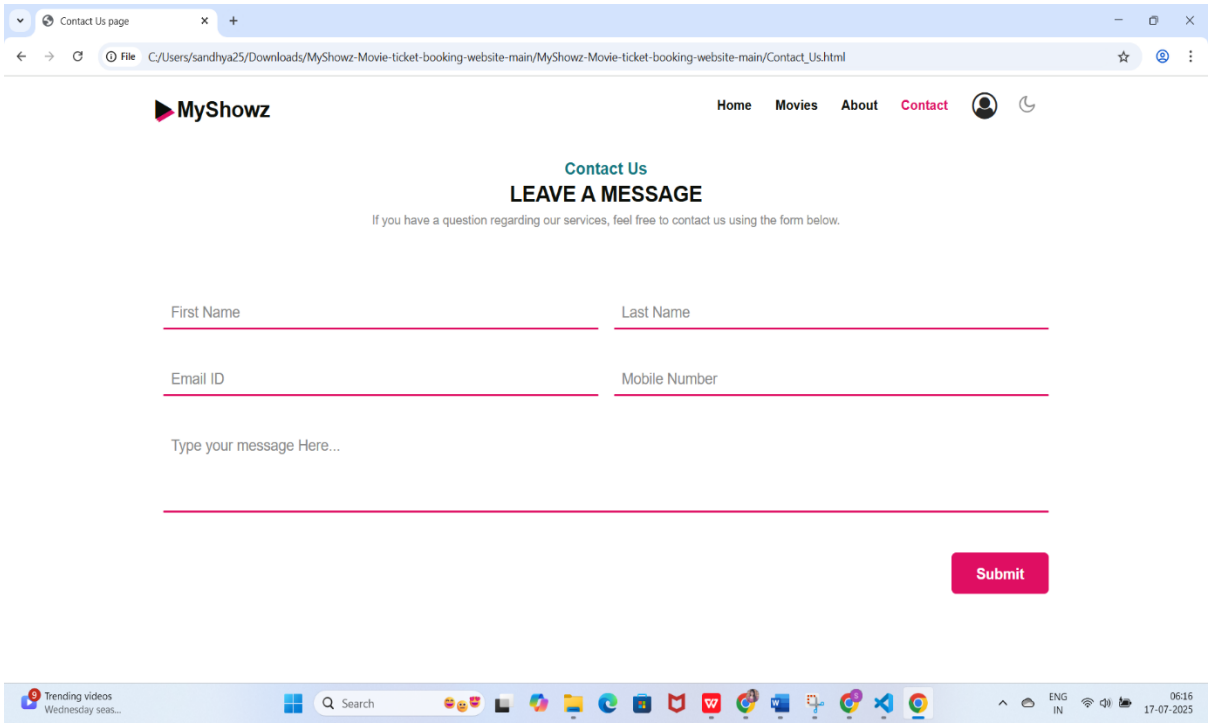
Making Payment Page:



Generating Ticket:



Contact Us Page:



7. TESTING

The testing phase is a crucial part of the development cycle for the Movie Ticket Booking Website – MyShowz. This phase ensures the user interface is functioning as expected across different screens and devices, and the user interactions behave in a seamless, intuitive manner. Since this project is a front-end only Human-Computer Interaction (HCI) project, testing is focused on UI behavior, responsiveness, navigation flow, and user experience.

Software testing was conducted in three steps:

1. Unit Testing

Each individual web page and component (like homepage, sign-in form, seat selection layout, etc.) was treated as a module. Unit testing was carried out to check the correct display of elements, layout alignment, style application, and responsive behavior on different screen sizes (mobile, tablet, desktop).

- Home page, Sign-In/Sign-Up page, Movie listings, Seat Selection, and E-ticket page were tested independently.
- Errors such as broken links, missing elements, and layout inconsistencies were identified and corrected.
- This phase helped ensure each module performed its designated function with clarity and consistency.

2. Integration Testing

Although each component worked well independently, integration testing ensured they also worked cohesively as a full website:

- Navigation flow between index.html, sign-in.html, ticket-booking.html, e-ticket.html, etc., was tested.
- Form actions, light/dark mode toggle, and content transitions were verified.
- Focus was on verifying the consistency of design and the smooth transition from one page to another.

3. Validation and User Experience Testing

This final step confirmed whether the website met user expectations in terms of look, feel, and functionality:

- Users tested scenarios such as viewing available movies, selecting seats, switching themes, and checking their e-tickets.
- Visual validation ensured that all sections were readable, accessible, and engaging.
- Based on feedback, minor design tweaks were made for improving visibility, readability, and user flow.

Test Cases :

Test Case ID	Description	Test Steps	Expected Result
TC01	Homepage loads correctly	Open in Chrome, Firefox, mobile	Page loads with navbar, movies section, and dark/light mode
TC02	Sign-up form input	Enter sample name/email/password and submit	Form responds with visual success (mock only)
TC03	Sign-in with sample data	Enter credentials, submit	Page transitions or displays a fake success (for UI demo)
TC04	Navigation between pages	Click on menu: Home → Movies → Book Now	Pages load smoothly
TC05	Seat selection UI	Click on seat(s), check color/state change	Selected seats highlight as expected
TC06	Toggle dark/light mode	Click toggle button on navbar	Theme changes site-wide
TC07	Mobile responsiveness	Open site on mobile	All elements adjust for screen size
TC08	E-ticket page access	After booking, open e-ticket.html	Displays fake ticket layout

8. SDG GOALS:

SDG 9 – Industry, Innovation, and Infrastructure

The website promotes digital innovation by transforming traditional movie ticketing into an efficient online system, enhancing infrastructure for cinema-goers and streamlining user interaction.

SDG 11 – Sustainable Cities and Communities

By offering easy and contactless ticket booking, the platform helps reduce long queues and overcrowding at theaters, making cities more organized and accessible for entertainment activities.

SDG 12 – Responsible Consumption and Production

MyShowz encourages paperless ticketing and digital receipts, reducing paper waste and supporting eco-friendly practices in daily entertainment consumption.

SDG 13 – Climate Action

Online booking reduces the need for unnecessary travel just to buy tickets, helping lower carbon emissions and supporting environmentally conscious behaviors.

9. CONCLUSION:

The MyShowz Movie Ticket Booking Website was designed to provide users with a smooth, modern, and visually appealing way to book movie tickets online. Through thoughtful design choices, clear navigation, and an intuitive layout, the project successfully reflects the key principles of Human-Computer Interaction (HCI).

Even though it's a front-end-only system, it demonstrates how technology can simplify everyday tasks like ticket booking, reduce physical effort, and enhance user satisfaction. The inclusion of features like dark/light mode, seat selection, and e-ticket viewing made the experience more engaging and realistic.

Overall, this project not only helped improve design and development skills, but also showed how digital solutions can contribute to better, faster, and more accessible user experiences in the entertainment industry.

10. FUTURE ENHANCEMENT:

The current version of **MyShowz** showcases a front-end movie ticket booking platform that focuses on user-friendly design and interactive features such as seat selection, light/dark mode, and a simulated online payment interface.

To make the platform fully functional and industry-ready, several enhancements can be implemented in the future:

- **Real-Time Movie Listings**: Automatically updating movies, showtimes, and seat availability from a central source.
- **User Authentication**: Enabling secure login, registration, and user profile management.
- **E-ticket System with QR Codes**: Generating QR-based digital tickets for quick and contactless check-ins.
- **Mobile Responsiveness and App Version**: Improving the mobile UI further or developing a native mobile app for wider accessibility.
- **Multilingual Support**: Offering the platform in regional languages to enhance usability for diverse users.
- **Personalized Features**: Suggesting movies based on user preferences or previous bookings.

These future enhancements would elevate **MyShowz** from a front-end concept to a complete, user-driven, and scalable movie ticket booking system.

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