

MOVIEGUY
A MOVIE TICKET BOOKING SYSTEM

**A PROJECT REPORT SUBMITTED IN PARTIAL FULFILMENT
OF REQUIREMENT
FOR THE AWARD OF THE DEGREE**

MASTER OF COMPUTER APPLICATIONS (MCA)

OF

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

BY

REHAN THOMAS RAJESH

Reg No.: 22PMC143



**MARIAN COLLEGE
KUTTIKKANAM**

(AUTONOMOUS)

MAKING COMPLETE

Marian College Kuttikkanam Autonomous

Peermade, Kerala – 685 531

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Under the guidance of
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PG DEPARTMENT OF COMPUTER APPLICATIONS

Marian College Kuttikkanam Autonomous

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

KUTTIKKANAM – 685 531, KERALA.

CERTIFICATE

This is to certify that the project work entitled

MOVIEGUY

is a bonafide record of work done by

REHAN THOMAS RAJESH

Reg. No. 22PMC143

In partial fulfillment of the requirements for the award of Degree of

MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022-2023

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Examiner

Examiner

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“Gratitude is a feeling which is more eloquent than words, more silent than silence.” In undertaking this project, we needed the direction, assistance and cooperation of various individuals and organizations, which is received in abundance with grace of God, without their unconstrained support, the project could not have been completed. If words are considered as the symbol of approval and token of acknowledgement, then let the following words play the heralding role of expressing our gratitude. We wish to acknowledge our sincere gratitude to our manager

V Rev Fr. Bobby Alex Mannamplackal and Principal **Prof Dr Ajimon George, Marian College Kuttikkanam (AUTONOMOUS)**, for all their efforts and administration in educating us in this premier institution. We extend our gratitude to **Mr. Win Mathew John**, Head of the Department of Computer Application, who is a constant source of inspiration and whose advice helped us to complete this project successfully. I express our deep sense of gratitude to our internal project guide, **Ms. Reny Jose**, for his profound guidance for the successful completion of this project.

With great enthusiasm we express our gratitude to all the faculty members of MCA department for their timely help and support.

Finally, we express our deep appreciation to all our friends and family members for the moral support and encouragement they have given to complete this project successfully.

Rehan Thomas Rajesh

ABSTRACT OF MOVIEGUY

MovieGuy is a website that provides the users with the feature of booking the movies online so as to avoid standing on queues in order to buy a movie ticket. The main objective of this system is to provide users a website to book the movie which they would like to see at the comfort of their home itself. This system is created using HTML, CSS, JS at its front end and DJANGO at its backend, the database used is SQLite3. The website does not require high end systems as it needs on less disk space and minimum use of RAM, graphics card and processor. With the help of the MovieGuy website the users can watch the movie trailers and then book the tickets for the movie they would like to watch.

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1.PROJECT REQUIREMENTS

REQUIREMENTS

1.Movie list Management

- The admin should be able to add movies as well as the movie description,
- The user should be able to view those movies and read the synopsis of the movie
- On clicking the movie poster, the user can read a short summary of the movie as well as see the director's name and the movie starring.

2. Theatre Management

- The admin should be able to add the theatres and its location.
- On doing so the user can select the theatre which is in their same locality or the place which they wish to go.
- All the theatre should be set according to the location.

3.Searching for Movies

- There should be a search bar where the user can search for the movies, they would like to book a ticket for.
- On searching for the movie, the movie poster should be displayed on the screen.
- The user then can select the movie and read the synopsis or book the ticket also.

4.View Ticket

- Once booking is over the user should be able to view the ticket.
- The ticket should contain the seat selected by the user.

5.Selection of Seats

- The user should have the option of selecting the seats.
- The selection of the seat should be shown in such a way that the user can see where they can sit and where the screen.
- So, booking the ticket the user should know exactly where their seat is.

6.Different types of screens

- All multiplex theatres will have more than one type of screens.
- These screens are to be available to the users, so as to allow them to select the screen which they want to watch the movie in if the movie is available in that screen.

7. Watching the trailer

- One of the most essential part of selecting a movie to book a ticket is to check out the movie trailer.
- The user should be able to watch the movie trailer after selecting the movie they prefer to book the ticket for. Only after which the option for selecting the theatres and seats should be available.

8.Payment

- The user should be able to add their card details.
- Once the details are entered, and OTP verification should be done, to ensure the payment.

2. FEATURES AND HIGHLIGHTS

FEATURES AND HIGHLIGHTS

1. Searching for Movies

The user can search for the movies that are currently running in the theatres.

2. Booking Tickets

The user can book tickets and view it in the booking tab.

3. Selection of seats

The user can select their seats as they wish as a page will be available for them where they can select their preferred seats.

4. Selection of Type of screen

Users can select the preferred screens like 2D,3D,4DX, IMAX for the movies available in these halls.

5. Selection of Theatre

Users can select the theatre according to the location they prefer.

6. Payment

Users can pay with their card and a One Time Password will be given which, only after verification will the payment be successful.

7.Login and Registration

Users can create a profile and also login later. This profile is limited only to that specific user. All the booking details of the specific user is also shown in the booking tab.

3. TECHNICAL ASPECTS

DJANGO LIBRARIES & THIRD PARTY APIS:

Admin Page: django-jazzmin:

- Django-jazzmin is a customizable admin interface for Django projects.
- It provides a modern and responsive admin page with additional features and customization options.
- With django-jazzmin, the default Django admin interface can be enhanced and tailored to specific project requirements.

CSS: Bootstrap 5:

- Bootstrap 5 is a popular CSS framework that provides a collection of pre-built responsive components and utilities.
- It simplifies the process of designing and styling web pages, making them visually appealing and mobile-friendly.
- Bootstrap 5 can be used to create a consistent and professional-looking user interface for the online inventory management system.

Image Manipulation:Pillow:

- Pillow provides a wide range of functionalities for image manipulation, including resizing, cropping, rotating, filtering, and more. It supports various image formats such as JPEG, PNG, GIF, and BMP.
- Pillow provides a set of operations that can be applied to the ImageField objects in the Django models. These operations include resizing, cropping, and applying filters. You can perform these operations before rendering the image on the frontend or while saving the image to the server.

4.ARCHITECTURE

ARCHITECTURE

Framework: The project uses Django framework for the project. Django is a high-level Python web framework that follows the Model-View-Controller (MVC) architectural pattern.

Model-View-Controller (MVC): Django follows the MVC architectural pattern, where models represent the data structures of the application, views handle the logic and data processing, and templates are responsible for rendering the user interface.

Database: Django provides an Object-Relational Mapping (ORM) layer that allows to interact with a database. The code snippets suggest that there is a defined models (e.g., Ticket, Show, Movie, Hall, Theatre, etc.) that represent the application's data and relationships.

Templates: The code includes Django templates (HTML files) that define the structure and layout of your application's user interface. Templates are used to generate dynamic HTML content by rendering data from views.

Views: Views in Django handle the business logic of the application. They receive requests from the user, interact with the models and database, and render the appropriate templates to generate a response.

URLs and Routing: There are defined URL patterns using Django's URL routing mechanism. The URLs are mapped to specific views, allowing users to access different pages and functionalities of your application.

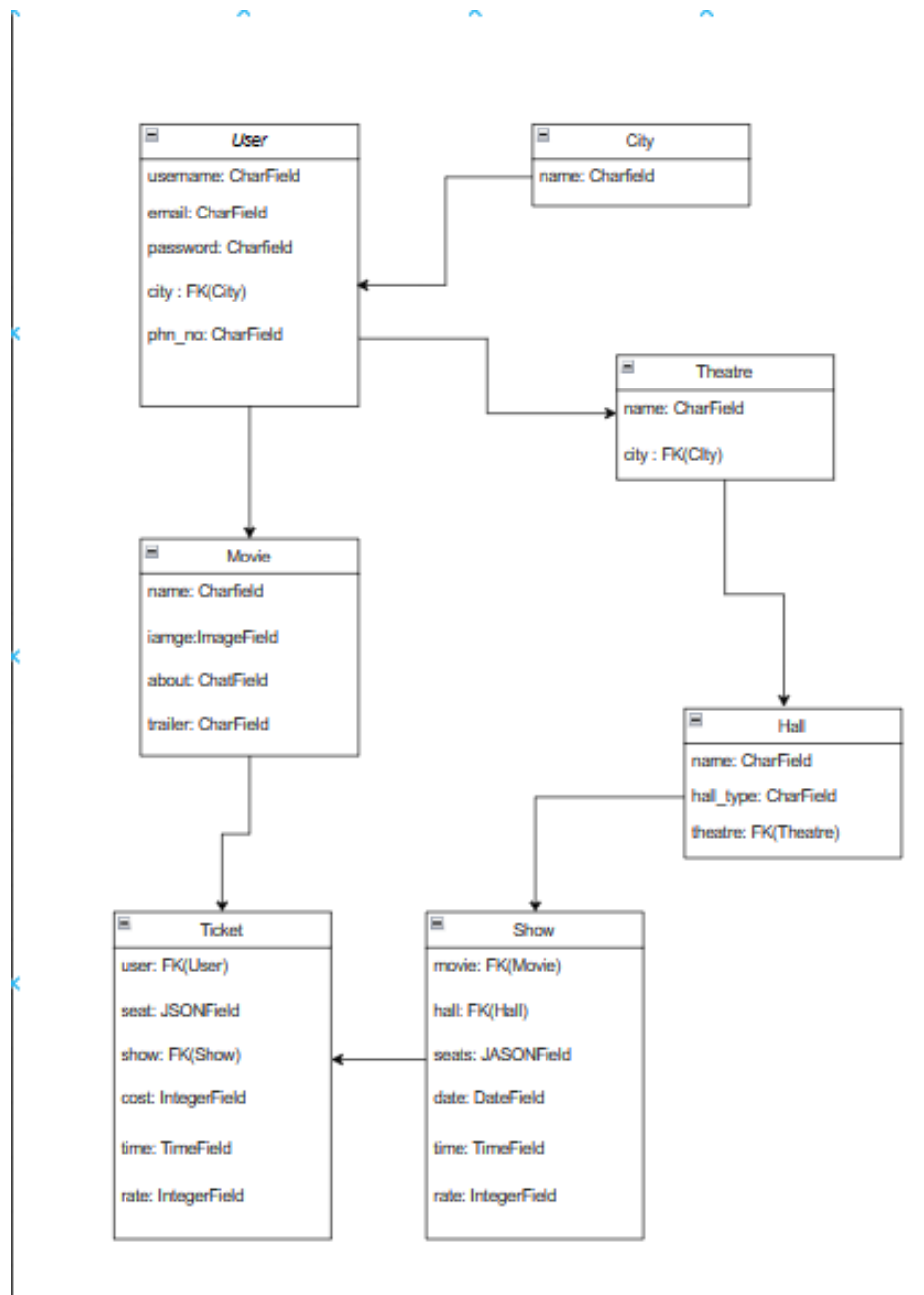
Authentication and User Management: Have implemented user authentication using Django's built-in authentication system. Users can register, log in, and access certain features based on their authentication status.

Payment Integration: The code includes a payment process where users can enter their credit card details.

Front-end: The front-end of your application seems to use HTML, CSS, and Bootstrap for styling and layout. There are defined classes and styles in the HTML templates to create an appealing user interface

5.DATABASE (CLASS DIAGRAM)

CLASS DIAGRAM



6. CHALLENGES FACED DURING DEVELOPMENT

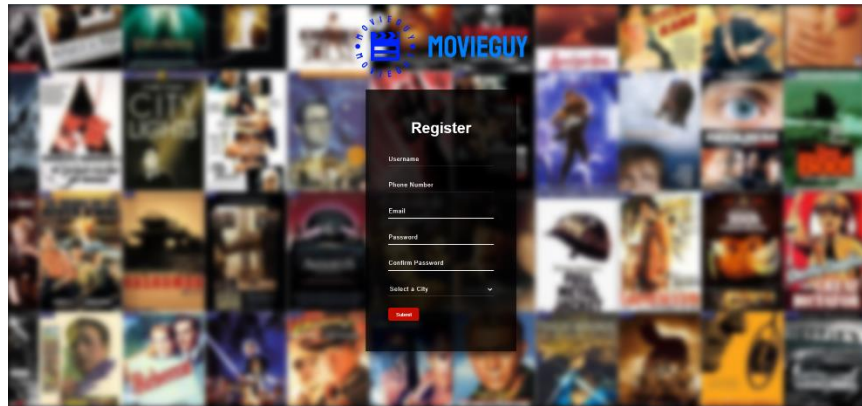
CHALLENGES FACED

- Ensuring accurate and consistent data across different modules and database tables.
- Handling data validation and ensuring data integrity during development.
- Creating a user-friendly interface that is intuitive and easy to navigate.
- Balancing the need for a visually appealing design with functional requirements.
- Getting the payment page ready using OTP verification.

7.IMPORTANT SCREENSHOTS AND EXPLANATION

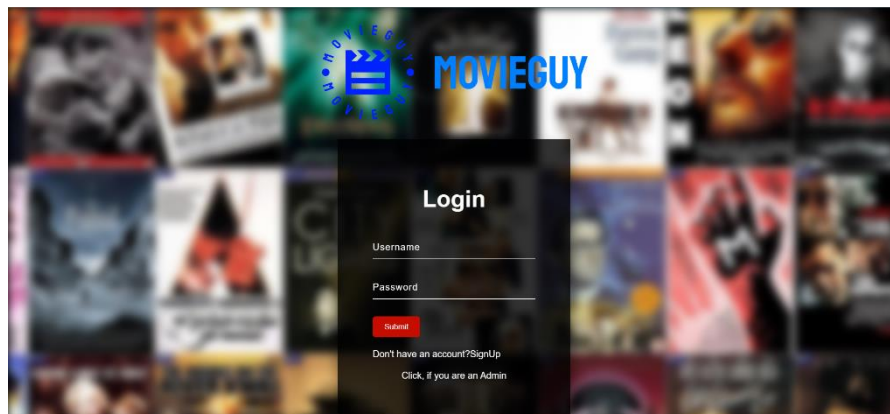
SREENSHOTS

1.Registration Page



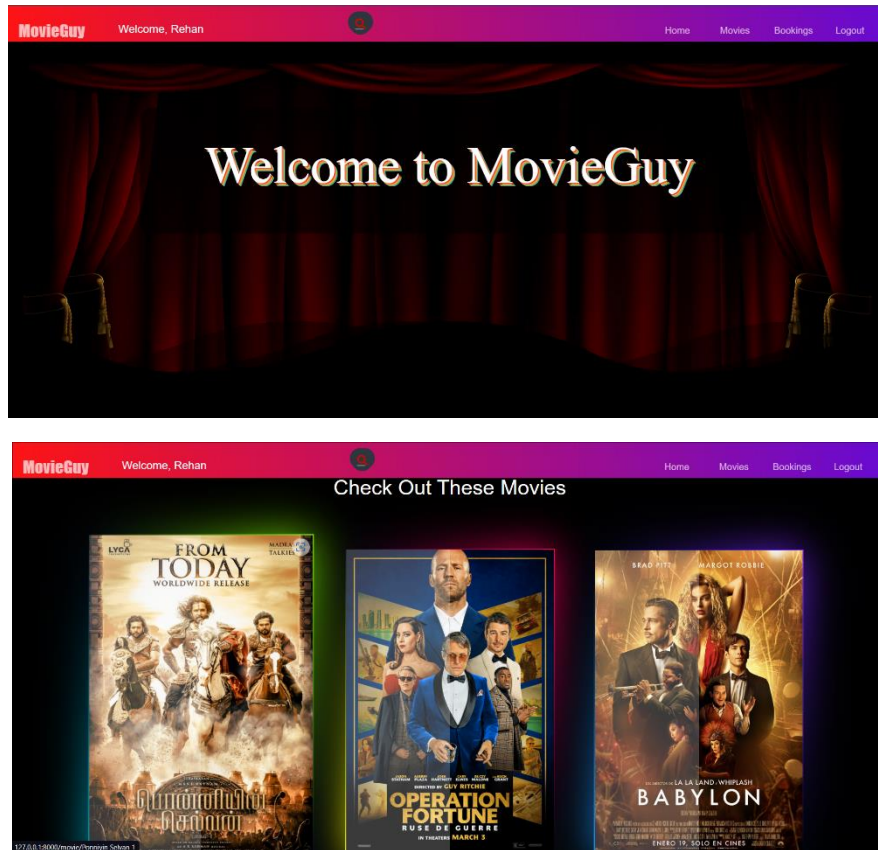
This page allows a user to register and create a profile.

2.Login Page



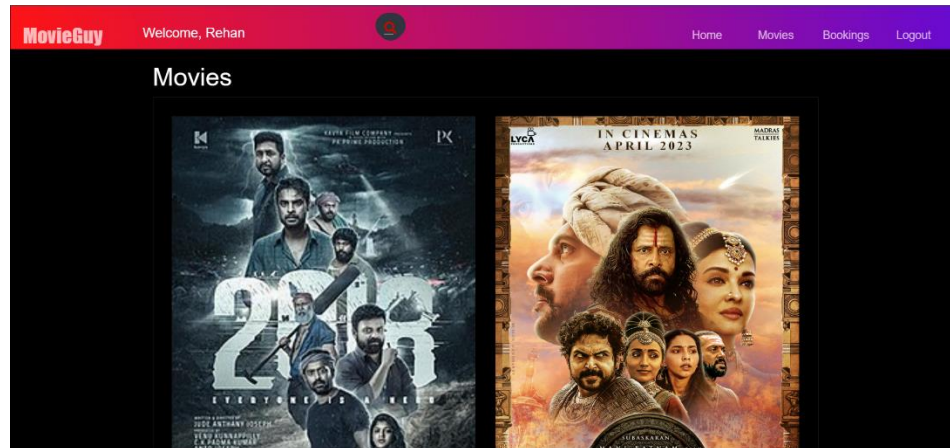
Allows a user to login into their account.

3. User Dashboard



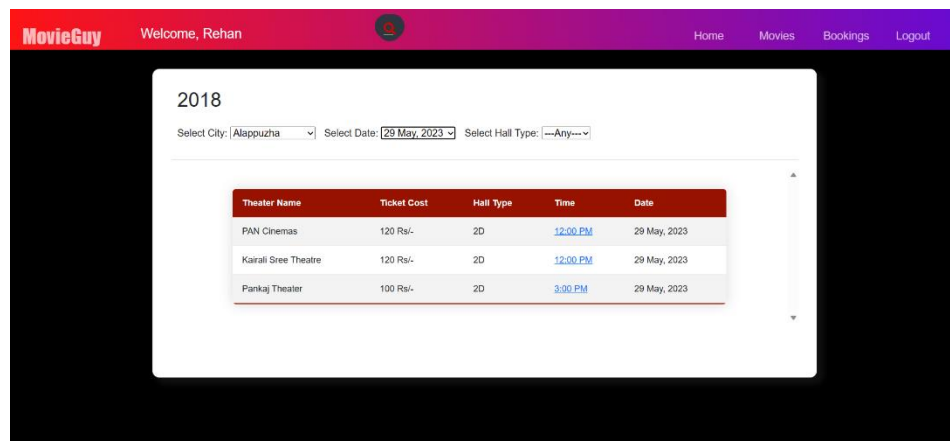
Here the user can checkout the movies and in the navigation bar there are options such as Home, Movies, Bookings, Logout. Which helps to the user to navigate through the different facilities of the website. On clicking on the movie posters on the “Check Out These Movies” portion of the user dashboard, the user is redirected to the movie specific page.

4. Movie Page



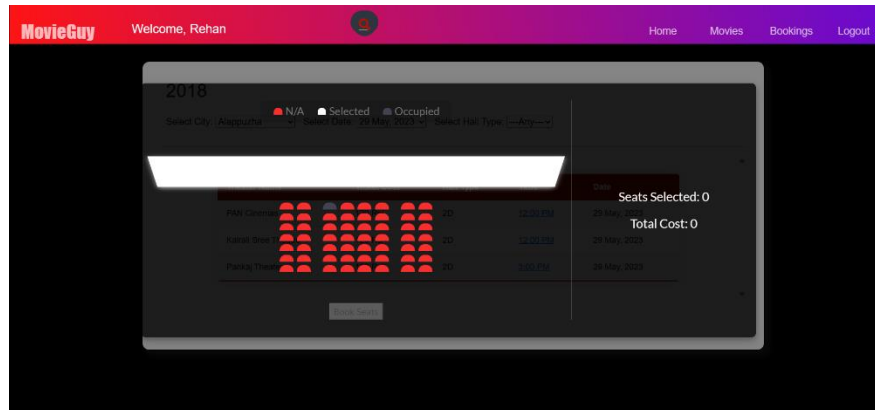
This page allows the user to see all the available movies currently running and which are available for booking. On clicking the movie will be redirected to the page containing the movie details.

5. Theatre and location selection



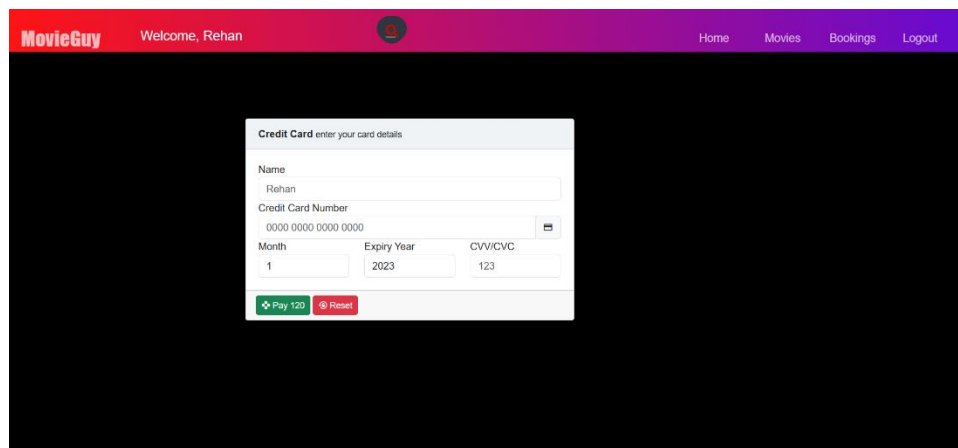
This page gives the user the option to either select the theatre in their locality or select a location and select the theatre where the movie is available. Also provides the user with the option of selecting the type of screen they would like to watch the movie in.

6. Seat Selection



Here the user is given the option to select where the user wants to sit and the payable amount is calculated accordingly and the number of seats selected is shown in the same page. Here the theatre screen is shown and the user can select the seat they desire.

7. Payment



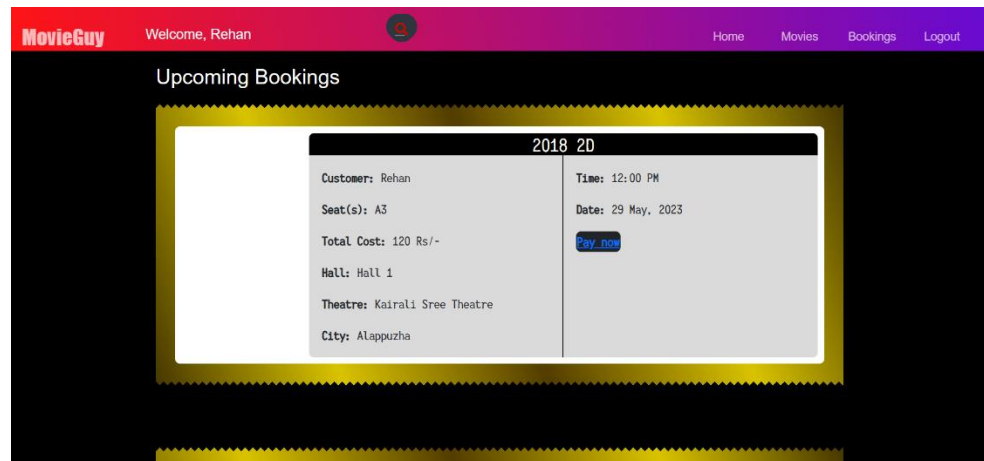
After the user selects their desired seats then comes the payment page where the user can enter their card details and proceed to pay.

8.OTP Verification

The first screenshot shows the 'Credit Card Details' modal. It displays the OTP 0359 and a button to 'Enter OTP'. The background shows a credit card form with fields for Name, Credit Card Number, Month, Expiry Year, and CVV/CVC. The second screenshot shows the 'Enter OTP' modal. It has a text input field containing the OTP 0359 and buttons for 'Verify OTP' and 'Cancel'. The background shows the same credit card form.

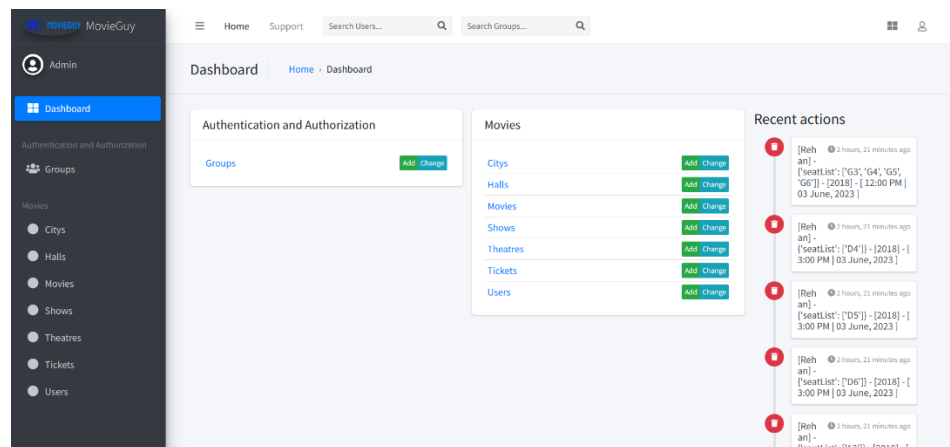
This page allows the user to enter an OTP that is generated and confirm the payment.

9. View Ticket Page



This page shows the ticket and the payment option. This ticket shows the booking details such as the seat number, time of show, hall details, theatre details, city etc.

10. Admin Main Page



The admin has their own panel where a certain number of operations can be done.

11. Add Movies Page

The screenshot shows the 'Add movie' page in the MovieGuy admin interface. The left sidebar contains a navigation menu with 'Admin' at the top, followed by 'Dashboard', 'Authentication and Authorization', 'Groups', and 'Movies'. Under 'Movies', there are sub-items: 'Citys', 'Halls', 'Movies' (which is highlighted), 'Shows', 'Theatres', 'Tickets', and 'Users'. The main content area has a breadcrumb trail: 'Home > Movies > Movies > Add movie'. The form includes fields for 'Name *', 'Image *' (with a 'Choose File' button and 'No file chosen' text), 'About *', 'Trailer *' (with a text input containing 'movies.Movie.name'), 'Director *' (with a numeric input '0'), and 'Movie stars *' (with a numeric input '0'). On the right, there are three buttons: 'Save' (green), 'Save and add another' (blue), and 'Save and continue editing' (blue). The footer shows 'Copyright © 2023 MovieGuy Ltd. All rights reserved.' and 'Jazzmin version 2.6.0'.

Here the admin can add movies by adding the name of the movie, image of the movie, about the movie, trailer of the movie and also the director of the movie as well as the cast of the movie.

12. Add Theatre Page

The screenshot shows the 'Add theatre' page in the MovieGuy admin interface. The left sidebar is identical to the previous screenshot, with 'Theatres' highlighted under the 'Movies' section. The main content area has a breadcrumb trail: 'Home > Movies > Theatres > Add theatre'. The form includes fields for 'Name *' and 'City *' (with a dropdown menu and a small icon). On the right, there are three buttons: 'Save' (green), 'Save and add another' (blue), and 'Save and continue editing' (blue). The footer shows 'Copyright © 2023 MovieGuy Ltd. All rights reserved.' and 'Jazzmin version 2.6.0'.

The admin can add any theatres according to the city of where the theatre is located. On doing so the user is able to select the theaters that they prefer.

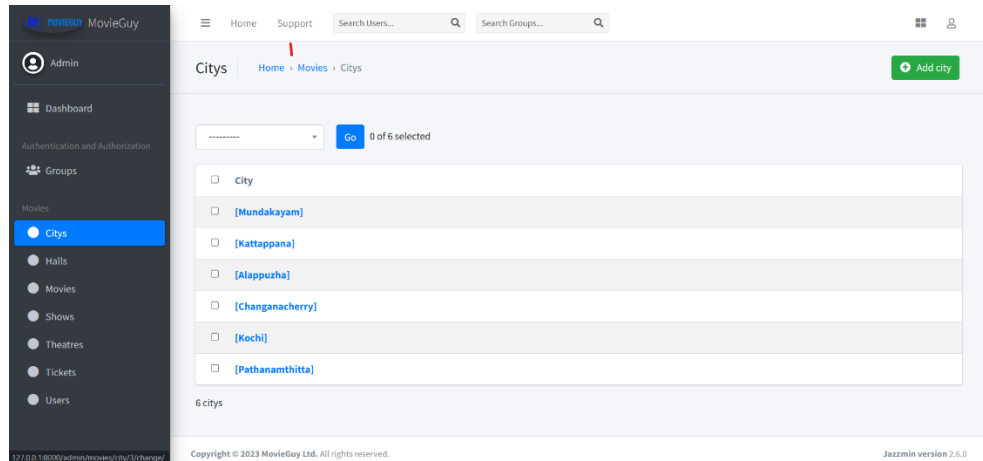
13. Add Show Page

Show timings can be added. This depends on the movie, hall type, date and time of the show.

14. Add Hall Page

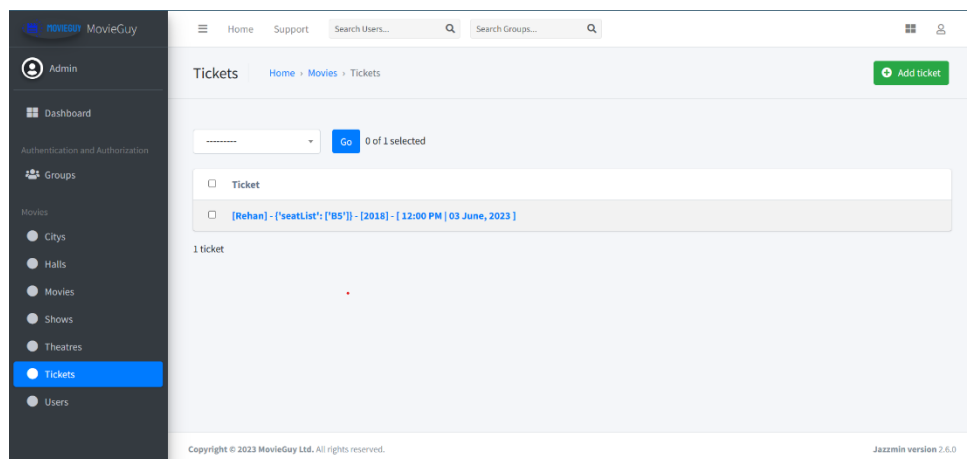
The add hall page allows the user to add the different types of screen types or hall types. On doing so the user can select the preferred hall type.

15. Add City Page



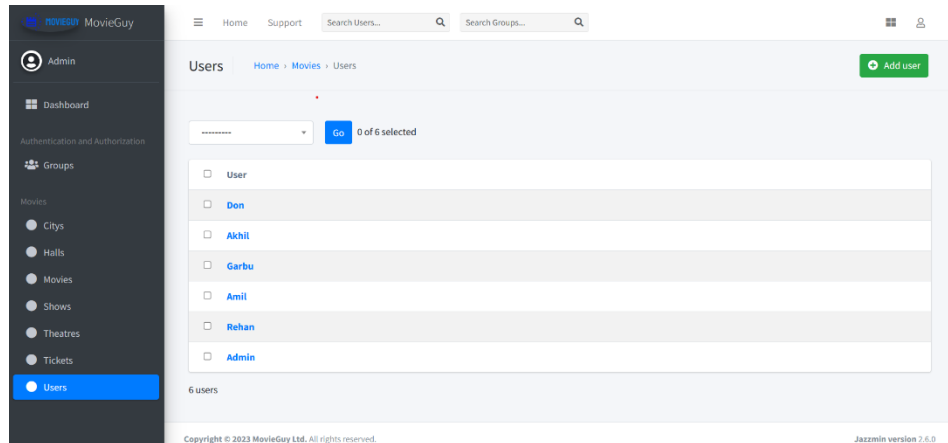
Admin can add the city, these cities can be then selected by the user at time of registration. When the user selects a movie and proceeds the default location that is set for the searching of the show is the users own locality, from there we can select the location the user prefers.

16. View Tickets Page



The view ticket page allows the admin to view the ticket details which contain the user name, seat that was booked by the user, the movie that was booked and the time and date of the show as well.

17.View Users Page



This page allows the admin to see all the users and their details, and also update them if needed.

8.FUTURE ENHANCEMENTS

Future Enhancements

1. Embedded Trailers

The trailers to the movies will be shown same page without redirection.

2. Payment

Payment will be with live OTP verification

3. Login

Two Factor Authentication

4. Chatbot

A trained ai that suggests movies based on your previous movie bookings

5. OTT platform

Making the whole website a OTT platform as well ,for movies released in OTT.

9.CONCLUSION

CONCLUSION

MovieGuy helps a user the booking the available movies in theatres that they prefer to see the movie; also watch the trailer of the movie they wish to see. The user can see the booking details and the previous booked movies also. This website keeps the user details safe as only the admin can see all the other details except the booking details. Its main purpose is helping users book movie tickets. The admin plays an important role in this system. Users decide to go for a movie at an instant or pre plan them, for those users who decide instantly to watch a movie they could open the website check for a high rated movie and check if the movie is available in any available theatres. There is no need for any users to go to a theatre and book the tickets instead just need to open the website and browse.

GitHub Repository Link:

<https://github.com/RehanThomasRajesh/MovieGuy.git>

10.REFERENCES

REFERENCES

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