CAPSTONE PROJECT

ONLINE MOVIE TICKET BOOKING

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PROBLEM STATEMENT

Develop a web-based platform that allows users to easily browse, select, and book movie tickets online. The platform should provide a user-friendly interface for users to search for movies, view showtimes, select seats, and make secure payments. Additionally, the system should include features for administrators to manage movie listings, theater information, and user bookings. The goal is to create a seamless and efficient online movie ticket booking experience for both users and administrators.

PROPOSED SOLUTION

The proposed solution for the online movie ticket booking Python project involves building a web application using Django or Flask frameworks. Users will be able to register, log in, and search for movies by title, genre, or location. Showtimes and available seats will be displayed, allowing users to select seats and proceed to payment securely. Payment integration with popular payment gateways like Stripe or PayPal will ensure smooth transactions. Administrators will have access to a backend dashboard to manage movie listings, theaters, and user bookings. The system will incorporate features like email confirmation and ticket generation for users' convenience. Implementation of role-based authentication will ensure security, with users having different privileges based on their roles. The application will be designed with responsiveness in mind, ensuring compatibility across various devices. Finally, thorough testing and continuous improvement will be conducted to enhance user experience and system reliability.

SYSTEM APPROACH

Hardware Requirements:

- Processor: Pentium 4 or more optimum performance
- Ram: Recommended 256 MB
- Hard Disk: Minimum 20 GB

Software Requirements:

- Operating system: windows,linux,unix,mac and other
- Programming Platform: PHP 5.0
- Database: My SQL
- Software Like: Xampp,phpMyAdmin
- Html5
- CSS3

ALGORITHM & DEPLOYMENT

Algorithm Design:

- **Define the functionality:** Decide what features your system will have, such as user authentication, movie selection, seat reservation, payment processing, etc.
- **Design the data model:** Plan how you'll store information about movies, theaters, showtimes, users, bookings, etc. This could involve using databases like SQL or NoSQL.
- **Develop the booking algorithm:** Create the logic for users to search for movies, select seats, and complete bookings while ensuring concurrency control to handle simultaneous bookings.

ALGORITHM & DEPLOYMENT

Development:

- **Write the code:** Implement the algorithm and functionality using Python, along with any necessary frameworks or libraries like Flask or Django for the web application, and SQLAlchemy for database interaction.
- **Develop the front-end:** Design and create the user interface using HTML, CSS, and JavaScript, or frameworks like React or Vue.js for more dynamic interfaces.
- **Implement security measures:** Incorporate user authentication and authorization mechanisms to protect user data and prevent unauthorized access.

Testing:

- **Perform unit tests:** Test individual components of the system to ensure they work as expected.
- **Conduct integration tests:** Test how different parts of the system interact with each other.
- **Perform system tests:** Test the system as a whole to ensure it meets the functional and non-functional requirements.

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ALGORITHM & DEPLOYMENT

Deployment:

- **Choose a hosting platform:** Select a platform to deploy your application, such as AWS, Azure, Google Cloud, or a dedicated server.
- **Set up the environment:** Configure the server environment with the necessary dependencies, such as Python, web server (e.g., Nginx), and database server (e.g., PostgreSQL).
- **Deploy the application:** Upload your code to the server and configure it to run as a web application. Ensure proper handling of static files, such as images and CSS.
- **Monitor and maintain:** Monitor the application for any issues or performance bottlenecks and apply updates or fixes as needed.

RESULT

FOR CUSTOMER:
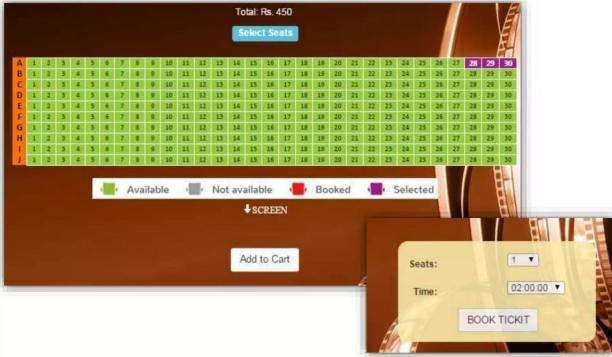
LOGIN AND REGISTRATION

LIST OF MOVIES RUNNING

Sign in to book movie ticket

User ID: smn21

Password: ·······

Forget your password?

login

Create a New Account

Create a new account

Full Name:	Enter Full Name
Gender:	○ Male ○ Female
User Id:	Choose a User ID
Choose Password :	Enter Password
Re Enter Password :	Re Enter Password
EmailId :	Enter Email ID
Age :	Valid age

☐ I agreed the terms and condition

SUBMIT

List of movies running

Poster	Movie Name	Language	Director	Cast	Genre
	Hercules (2014)	English	Brett Ratner	Dwayne Johnson, John Hurt, Ian McShane	Action ,Adventure
	How To Train Your Dragon 2 (2014)	English	Dean DeBlois	Jay Baruchel, Cate Blanchett, Gerard Butler	Animation ,Action, Adventure
	Mary Kom	English,Hindi	Omung Kumar	Priyanka Chopra, Danny Denzongpa, Zachary Coffin	Biography, Drama
	Haider (2014)	Hindi	Vishal Bhardwaj	Shahid Kapoor,Tabu , Shraddha Kapoor	Drama
	Mardaani (2014)	Hindi	Pradeep Sarkar	Rani Mukerji, Tahir Raj Bhasin, Sanjay Taneja	Action	Drama	Thriller
	Hercules	Bengali	Sudeshna Roy, Abhijit Guha	Parambrata Chatterjee, Paoli Dam, Saswata Chatterjee	Drama

RESULT

INFORMATION ABOUT MOVIE

TIMING AND NO. OF SEAT SELECTION

RESULT

RESULT

E- TICKET AND PASSWORD RECOVERY

RESULT

FOR ADMIN:

CONCLUSION

- This project has been developed successfully and the performance of the system has been found satisfactory

- Use of this interface helps customer in having immediate information about running movies and reserve their seat without wasting their precious time

- User friendly Interface also for the admin to add and delete movie information.

FUTURE SCOPE

➢ More features can be added like
- ● Allow customers to comment on movies
- ● Provide a list of upcoming movies
- ● SMS notification after successful seat reservation.

➢ Encrypted Webpage to ensure customer privacy and transaction security.

➢ More user friendly interface also in small screen devices.

REFERENCES

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- www.google.com
- www.tutorialspoint.com
- www.Phpmanual.net

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THANK YOU