

Movie Booking Application

Team:

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Miniworld: Search for movies in theater and book a movie show.

Purpose of Application/database and Intended Users:

The application intended to be used by any movie enthusiasts wanting to watch a movie. The application will let clients search for a movie currently showing in the theaters around. The clients can also book movie ticket for the movie at any theater. Client have to make payment for the ticket. The other user is Admin for a each theater registered with the application. The Admin will add the newly released movie to the various theaters on the application. Also allocate shows timings for the movies at different theaters.

Objects/Actors/Roles:

- **Objects:**

- Theater : Playing a movie
- Movie : Details of a movie like genre, running time, title etc.
- Screen : Playing particular movie in particular screen
- Show Time : Show time for a particular movie at a theater
- Seats : Maximum number of seats per screen per theater. **Also track the exact seat booked (Eg. G13) to analyze which seats are available and which are not.**
- Payment : Manage payment for movie tickets

- **Actors:**

- Admin : Manage movie and show timing
- Clients / Viewers : Search for movie and book movie tickets

Planned functionality and operations:

Actor	Object	Interaction
Admin	Manage user logins	Maintain user login details in database
	Movie - Theater	Add new movie to theater
	Movie - Shows	Add shows for new movie in theaters
Client / Viewer	Credentials	Register (password encrypted)
		Login
	Movie	Search for movie and selects
	Theater	Selects theater to watch movie
	Show Time	Select preferred show time
	Seats	Select seat / seats
	Discount/offers	Member users, will get some discount while booking
	Payment	Makes payment
	Feedback	Rate movie & theater, also give reviews

Action	SQL Operation
SELECT	View preferred showtimes
UPDATE	Update Showtimes
DELETE	Delete movie from a theater
INSERT	Add New movie to theater

Scenarios:

The application is similar to real applications like 'Atom' or 'Fandango'.

Once the viewer registers and logs in, he/she will be able to see all the movies running currently in movie theaters. Then he/she can select any movie of their choice to get more details of the movie like in which theater the movie is screening. On selecting the theater of choice, show timings will be displayed. **The viewer can use various filters based on location, movie, theater, genre.** He/she can then book movie tickets at a particular show time. Make payment. **The viewer can rate movies, theaters and give feedback. Also when viewer searches for movie/theater, movies and theater ratings are also displayed.**

The Admin after login can enter new movie in the application. Enter details like movie name, genre, run time, ticket price etc. Admin can also allocate show timings for new movies depending on slot availability at a theater.

This application is similar to real applications like 'Atom' or 'Fandango'. On the app web page currently released movies will be displayed and other search options will be provided to users.

There will be two types of user, one with membership and other is guest user. On app page user will login first. After login, user will be asked to enter date and location. After selecting any currently running movie on web page, movie with rating and list of theaters with show timing, rating will be displayed on screen. User can select theater of his choice and show time by seeing rating of that theater. Later user will be asked to select type (like adult, child, senior) and add ticket quantity. Then user can pick seats by checking availability. Then he enters to payment section, where member user can add offer code to avail discount.

After watching movie, user can rate to movie, theater and gives reviews. Also if time permits, we are planning to use machine learning to analyze user's data for analysis and recommend him other movies which he may like.