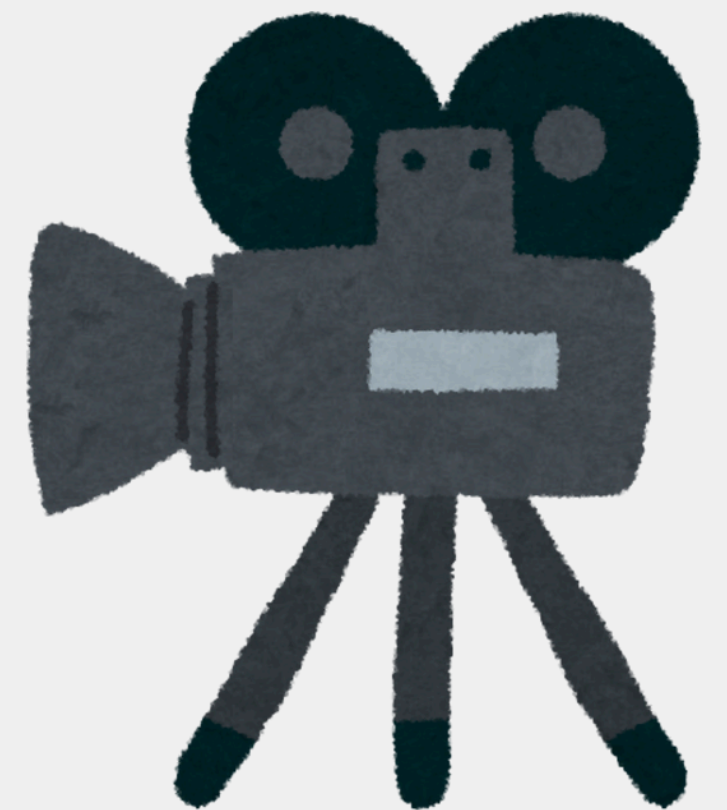
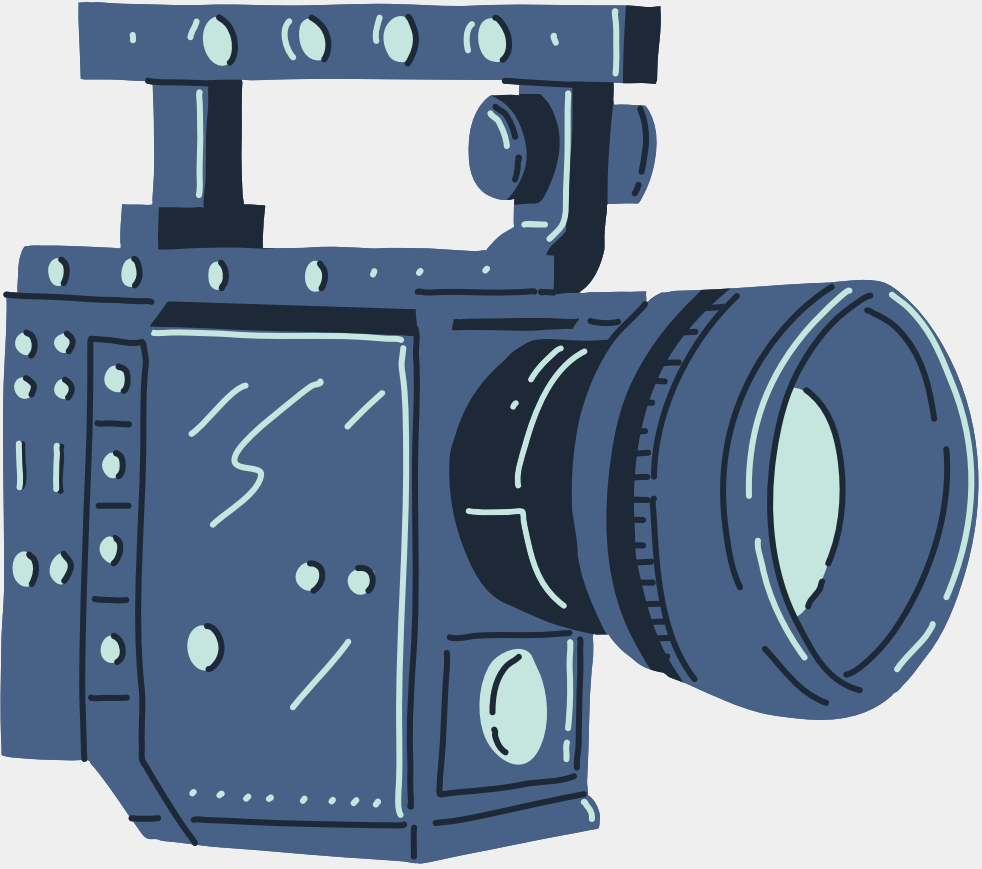


Movie Recommendation And Booking System Project

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OUTLINE

- General Description of the Project
- Description of Implemented Functions
- General User Experience

General Description of the Project

- Console-based cinema booking and recommendation system
- Combines movie search, recommendations, and booking
- Demonstrates functionality using synthetic datasets (limited genres, November 2024)

User Features

- *Registration:* Create an account with a unique username and favorite genre
- *Login:* Secure access to the system
- *Account Management:* View account info, booking history, or delete account.

Movie Search & Recommendations

- *Search*: Find movies by keywords, sorted by ratings
- *Recommendations*: Get personalized suggestions based on favorite genres

Showtime Management

- *View Showtimes:* Check availability for specific movies
- *Book Seats:* Reserve seats for available showtimes
- *Booking History:* View past showtimes and reservations

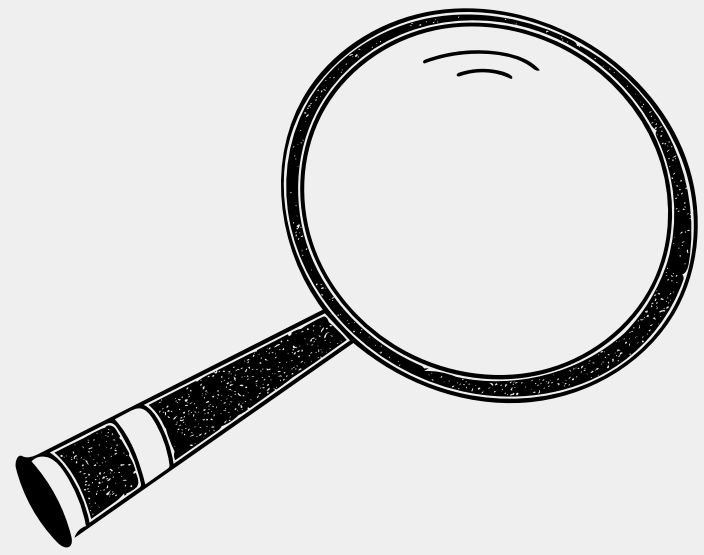
Datasets

The project uses three JSON datasets:

- *Users*: Information about registered users.
- *Movies*: Details of available movies.
- *Showtimes*: Schedule and availability of movie showtimes.

Description of Implemented Functions

02



User Account Management

01 Register user

Allows to register a new user with a unique username and preferred genre

02 Login user

Allows user to log in by verifying credentials

03 Delete account

Allows to confirm and delete the user's account

04 View user information

Show the user's account information

01 register_user

- Checks the username to be unique
- Asks for username, password, name, surname, and preferred genre.
- Validates the selected genre
- Assigns a unique user ID and records the registration date.
- Saves the updated user

02 login_user

- Returns the user's data if the credentials are correct
- Informs the user of incorrect credentials and allows retrying.

03 delete_account

- **Asks the user to confirm deletion**
- **Removes the user's data**



04 view_user_info

- **Demonstrates name, username, preferred genre, and registration date of the user**

Movie Management Functions

01 Search_movies

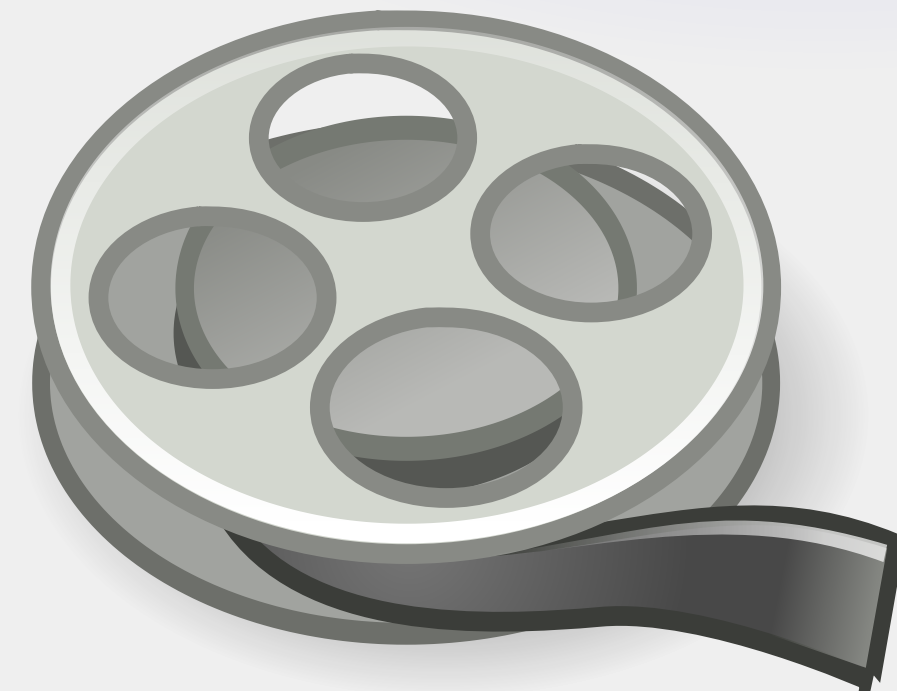
Shows corresponding movie suggestions based on the keyword

02 View_recommended_movies

Creates a list of movies based on the user's initial preferences

03 View_booking_history

Shows the user's booking history



01

Search_movies

- **Takes a keyword based on which filters the movies**
- **Creates a list with all possible matches**
- **If matches found returns them**

02

View_recommended_movies

- **Makes a list of movies based on user's preferred genre provided during registration**
- **If preferred genres available, shows the matches and general info(rating, director)**

03

View_booking_history

- **Checks the users booking history and if available shows it**
- **Provides details about the booking e.g showtime, title**

Showtime Management Functions

01 view_showtimes_by_movie

Allow users to find available showtimes for a specific movie based on its ID

02 book_showtime

Allows users to book a showtime



01

`view_showtimes_by_movie`

- **Displays available showtimes for a movie based on the provided movie ID**
- **Filters showtimes where seats are still available**
- **Orders showtimes chronologically for easy user understanding**

02

book_showtime

- **Allows users to book a showtime by entering its ID**
- **Updates the available_seats count**
- **Appends the booked showtime ID to the user's data**

General User Experience

The program will be demonstrated by running the actual application.

04

Thank You

