CLOUD APPLICATION DEVELOPMENT(CAD)

Project: Media Streaming with IBM Cloud video Streaming

<u>Phase 2: Innovation</u>

Define Requirements:

- Clearly outline the features, such as user profiles, playlists, real-time chat, and notifications.
- Determine the technology stack you'll be using, such as front-end frameworks (React, Angular), back-end frameworks (Node.js, Django), and database systems (MongoDB, PostgreSQL).

Design the Database:

- Create a database schema to store user information, playlists, movies/shows data, chat messages, and other relevant details.
- Establish relationships between different entities, such as users and playlists, movies/shows and playlists, etc.

Develop User Authentication and Profiles:

- Implement user registration and login functionality with secure password storage and authentication methods.
- Create user profiles where users can add avatars, bios, favorite genres, and other personal details.

Implement User-Generated Playlists:

- Allow users to create, edit, and delete playlists.
- Provide options to add movies/shows to playlists, and ensure these associations are stored in the database.

Integrate Real-Time Chat:

- Choose a real-time communication technology like WebSockets to enable instant messaging between users.
- Implement public chat rooms for discussions related to movies/shows and private messaging for one-on-one conversations.
- Implement message history, emoji reactions, and basic moderation tools.

Develop Movie/Show Pages:

- Design individual pages for movies/shows displaying details, play options, discussion sections, and related content suggestions.
- Implement features like adding to playlist, real-time chat, user ratings, and reviews.

Set Up Notifications:

- Implement a notification system to alert users about new messages, playlist updates, and friend activities.
- Use push notifications or WebSocket notifications to ensure real-time updates.

Implement User Interactions:

- Enable users to follow/unfollow others and manage their friend list.
- Implement actions like liking playlists, movies/shows, and comments.

Implement Security Measures:

- Ensure data security by using encryption and secure communication protocol.
- Implement user authorization to control access to various features and data.

Test Thoroughly:

- Perform extensive testing to identify and fix bugs.
- Test the platform's usability and responsiveness on different devices and browsers.

Launch and Gather Feedback:

- Deploy the platform to a web server or a cloud service.
- Gather user feedback and make necessary improvements based on the feedback received.

Homepage:

Featured Movies/Shows:

- Display a selection of popular movies and shows.

User-Generated Playlists:

- Showcase curated playlists created by users based on genres, moods, or themes.

Trending Discussion:

- Highlight ongoing discussions about trending movies or shows.

Personalized Recommendations:

- Provide movie/show suggestions based on users' watch history and preferences.

User Profiles:

Create Profile:

- Users can create profiles with avatars, bio, and favorite genres.

My Playlists:

- Users can create, edit, and share their playlists. They can add movies/shows from the platform to their playlists.

Watch History:

- Show a list of movies/shows recently watched by the user.

Movie/Show Pages:

Play Button:

- Starts the movie/show.

Add to Playlist:

- Users can add the movie/show to their playlists.

User Ratings and Reviews:

- Allow users to rate and review movies/shows.

Related Content:

- Suggest similar movies/shows based on the current selection.

Real-Time Chat:

Public and Private Chats:

- Users can engage in public discussions related to specific movies/shows or initiate private chats with friends.

Emoji Reactions:

- Users can react to messages with emojis to express their emotions quickly.

Moderation Tools:

- Implement tools to moderate chats, ensuring a positive and respectful environment.

Notification System:

- Notify users when they receive new messages or when someone replies to their comments.

Notifications:

New Playlist Updates:

- Notify users when someone adds their movie/show to a playlist.

Discussion Alerts:

- Notify users about ongoing discussions related to movies/shows they've watched or are interested in.

Friend Activity:

- Notify users about their friends' activities, such as creating playlists or starting discussions.

Settings:

Privacy Controls:

- Allow users to control who can message them and who can see their activities.

Notification Preferences:

- Enable users to customize their notification settings based on their preferences.

Account Security:

- Implement two-factor authentication and account recovery options.
- By incorporating these features, MovieHub can create an engaging, social, and personalized movie-watching experience, enhancing user interaction and satisfaction on the platform.

THANK YOU...