

TV Show Rating Platform Based on Age Group and Interests

Introduction

What is the platform?

This platform is a personalized TV show rating and recommendation system designed to deliver tailored recommendations for users.

Purpose of the platform:

- To provide TV show ratings that are specific to users' age groups and interests, moving beyond generic, one-size-fits-all rating systems.
- To ensure that recommendations are accurate, relevant, and enjoyable for each individual user.

Purpose of the Database

Central Repository:

The database acts as the backbone of the platform, performing several key roles:

- Stores user profiles, including demographic details (age, name, email) and individual interests.
- Maintains an extensive catalog of TV shows with detailed metadata such as genre, release year, and streaming availability.
- Records user interactions, including ratings and reviews, for all TV shows.

Facilitating Personalization:

- By collecting and analyzing ratings across different age groups and interests, the database helps create meaningful, personalized recommendations.
- Provides a foundation for filtering and displaying user-specific ratings that reflect individual preferences.

Key Functionalities Supported by the Database

1. User Enrollment and Demographics:

- o Captures essential user data: name, email, age, and selected interests.
- Automatically assigns users to one of four predefined age groups:
 - Under 18
 - **■** 18-30
 - **■** 31-50
 - **■** 51+
- Tracks users' multiple interests (e.g., drama, sci-fi, documentaries).

2. TV Show Catalog Management:

- Stores detailed information for each TV show, such as:
 - Title
 - Genre(s)
 - Release year
 - Number of episodes
 - Streaming platforms (e.g., Netflix, Hulu, Disney+).
- Associates each TV show with one or more genres or interests.

3. Ratings and Reviews System:

• Allows users to rate TV shows on a 1-to-10 scale.

- o Provides an option for users to leave written reviews.
- Manages the complex many-to-many relationship between users and TV shows via a dedicated "Rating" entity.

4. Personalized Viewing of Ratings:

- Enables users to filter and view ratings based on:
 - Specific age groups (e.g., "What are people 18–30 saying about this show?").
 - Selected interests (e.g., "Top-rated documentaries among users who enjoy science and history.").
- Supports advanced queries that generate insights into how different demographics perceive various shows.

Entities and Relationships

Entities:

- **User:** Represents individuals using the platform, with their demographic and interest data.
- **AgeGroup:** Categorizes users into predefined age brackets.
- Interest: Represents user-selected genres or topics of interest.
- **TVShow:** Stores detailed information for each TV show available on the platform.
- **Rating:** Captures user ratings (1–10) and optional reviews for TV shows.

Relationships:

- **User-AgeGroup:** Each user belongs to one and only one age group.
- **User–Interest:** Users can have multiple interests, creating a many-to-many relationship.
- **TVShow–Interest:** Each TV show can belong to multiple genres or interest categories.
- **User–TVShow (via Rating):** Users can rate multiple TV shows, and each TV show can receive ratings from multiple users.

Intended Use of the Database

1. Personalized Recommendations:

- The database enables personalized TV show suggestions by analyzing user ratings within specific age groups and interests.
- Recommendations align more closely with users' tastes compared to generic algorithms.

2. Improved Content Discovery:

- Users can explore new TV shows based on their preferences, interests, or demographic insights.
- Facilitates better discovery of hidden gems or niche content.

3. Community Engagement:

- By showcasing reviews and ratings from like-minded individuals, the platform fosters a sense of community.
- Users feel connected through shared preferences and interests.

Benefits Over Traditional Systems

1. Avoids Generic Recommendations:

- Traditional platforms often provide aggregate ratings that do not reflect individual tastes.
- By incorporating age and interest data, the platform offers more nuanced and tailored ratings.

2. Enhanced Accuracy:\

- Users receive recommendations that are backed by data from people in similar age groups or with similar interests.
- This makes the recommendations feel more personal and relevant.

Conclusion

Core Component:

The database is the cornerstone of the platform, enabling it to collect, store, and analyze critical user and TV show data.

Achieving the Platform's Mission:

Through its personalized approach, the platform creates a more engaging and customized experience for its users.

Addressing Challenges:

By focusing on age-specific and interest-specific insights, the platform solves the problem of generic, impersonal recommendations. It bridges the gap between users and the shows they are most likely to enjoy, ensuring satisfaction and long-term engagement.