**Movie Recommendation System**

# DATABASE PLANNING

# **System Overview**

# Several important features have been integrated to improve the functionality of the movie recommendation system. It tracks the user's viewing history and preferences, making various suggestions that are updated over time. Users can rate the movies they watch, which helps improve the accuracy of future recommendations. The system also uses advanced methods to create personalized recommendations and allows users to browse through different movie categories and genres. The database is organized with the necessary tables for user profiles, movie descriptions, ratings, genres, viewing history, and recommendations. In the future, we plan to add social features to share recommendations, implement real-time updates for more relevant suggestions, and include a manual spelling correction feature to improve data accuracy. Overall, this project aims to improve the way viewers discover and enjoy movies, making the movie viewing experience more engaging and enjoyable.

# **Key Features**

# **Track User Watch History and Preferences:**

# The system monitors the movies that users have watched and their preferences (e.g., favorite genres or actors), enabling more accurate recommendations.

# **Collect Ratings for Movies:**

# Users can rate movies on a scale from 1 to 5, which helps to aggregate data on movie quality and popularity.

# **Generate Movie Recommendations:**

# Utilizing collaborative filtering (which recommends movies based on the preferences of similar users)

# **Option to Browse Movie Categories and Genres:**

# Users can explore movies by categories and genres, making it easier to discover new content that matches their interests.

# **Social Feature for Users to Share Recommendations:**

# This feature allows users to connect with friends and share their movie recommendations, creating a community feel within the platform.

# **Real-Time Updates of Recommendations:**

# The system updates recommendations based on recent user activities, ensuring that users always receive relevant suggestions.

# **Auto Spelling Correction for User-Inputted Data:**

# An automatic spelling correction feature improves the accuracy of user inputs, correcting common spelling errors before the data is stored.