Project Proposal

Movies and TV shows listing system using Java and the Concept of OOP

Problem Statement

People often watch movies and TV shows across multiple platforms, making it difficult to keep track of what they have watched, are currently watching, or plan to watch. Manual tracking using notes, lists, or memory is inefficient, time-consuming, and prone to mistakes, which can result in forgotten titles, repeated viewing, or difficulty having a most liked list.

This project proposes the development of a desktop-based movies and TV shows tracking system using Java that allows users to record, manage, and view their watchlist. This system enables users to track their watched content, manage watchlists, rate titles, and create a ranking based on their ratings while providing a practical learning experience in object-oriented programming, file handling, and GUI development using JavaFX.

Project Objectives

The main objectives of the project are:

- Create a desktop GUI application using JavaFX.
- Allow users to record watched content and rate it accordingly.
- Allow users to manage their watchlist by updating the current status of the content (currently watching, plan to watch, completed).
- Allow users to view their rankings and watch statistics to remember what they liked and compare them to other shows properly.
- Improve cases of forgotten titles, repeated viewing, or difficulty creating a top 10 list.

Model Scope

Included Features

- User-friendly GUI using JavaFX with tables, forms, and dashboards.
- Add movies and tv shows to lists such as watching, completed, and plan to watch.

- Users can rate movies and tv lists on a scale of 1-10.
- Users can write a review on their added movies and TV shows
- Show statistics such as total shows and movies watched, and most rewatched.
- Quick access to tables for easy updates.
- Use of object-oriented principles such as classes, objects, encapsulation, and inheritance.

Excluded Features

- No real-time IMDb integration.
- No automated show details, casts and synopsis.
- No cloud storage or multi-user support.
- No advanced analytics or recommendation system.
- No community and social features.

Model Resources

1. Java Development Kit (JDK)
2. JavaFX SDK for GUI development
3. IntelliJ IDEA IDE
4. Windows Operating System
5. w3schools.com or Oracle Java Documentation for Java basics and OOP concepts

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Expected Outcome

The outcome of this project will be a functional Java desktop application that allows a user to:

- Track watching and planning to watch lists.
- Get a ranking system based on their ratings.
- Have a better experience when reflecting on their watch history and differentiate between what they liked and didn't like.

This project will demonstrate practical knowledge of Java programming, OOP, file handling, and GUI development, while providing a useful, real-life tool for a movie enthusiast.