# Programming Project / C++ – Watched Movies Management Sytem –

Student 1: David Cojocaru

Student 2: Victor-Daniel Luca

## **I. Task Description**

Student 1 is responsible for managing:

- -User accounts (registration, viewing users)
- -The movie database: adding, deleting, modifying, and searching movies

Student 2 is responsible for managing user interactions:

- -Logging in as a user
- -Creating a list
- -Adding/removing movies to/from a list
- -Viewing lists

### II. Data Structures Used by the Team

The following classes will be used:

- Movie: string title, string description, int duration, string genre
- List: string name, Movie[] movies
- User: string username, string password, List[] lists

### **III. File Structure**

The following files will be used:

Version 1(CSV files):

Users.csv

A file where are stored the credentials for each user: username,password

movies – stores all available movies:

- ➤ id: unique movie ID
- > title: movie title
- > description: short summary of the movie
- > duration: movie length in minutes

genre: genre of the movie

lists – stores movies in a list:

- ➤ id: unique list ID
- > user\_id: references a user from the users table
- > name: the name of the list

link\_list\_movies - links movies to lists created by users:

- ➤ list\_id: references a list from the lists table
- > movie\_id: references a movie from the movies table

# **IV. Interacting with Executables**

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Application 1 will offer the following options:
./app_1.exe view_movies
View all available movies
./app_1.exe add_movie "<title>" "<description>" <duration> "<genre>"
Add a new movie
./app_1.exe delete_movie "<title>"
Delete a movie
./app_1.exe modify_movie "<title>" <description|duration|genre> "<new_value>"
Modify an existing movie
./app_1.exe search "<keyword>"
Search movies by keyword in title/description
./app_1.exe register_user <username> <password>
Register a new user
./app_1.exe view_users
View all registered users
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Application 2 will offer the following options: ./app\_2.exe login <username> <password> Log in as a user

./app\_2.exe view\_list <list\_name>
View current user's list

./app\_2.exe add\_to\_list "<title>" <list\_name> Add a movie to a list

./app\_2.exe remove\_from\_list "<title>" <list\_name> Remove a movie from a list

./app\_2.exe mark\_as\_watched "<title>"
Move a movie from To Watch to Watched

./app\_2.exe create\_list "<title>"
Create a new list