

SEMESTRAL PROJECT
MOVIE DATABASE

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1. Summary

This application is written in programming language Java. It's a movie database that allows the user to manage the information about the movies. Users can add new movies, view details about the existing movies and edit their details. They can also delete the movies from the database. The movies can be animated or live-action. New movies can be loaded from a file and the existing movies can be saved into a file. The information about movies can also be edited.

2. User part

2.1. How to run the application

The application is written in Java language so it's necessary to have JDK installed. It's also necessary to have all the source files available and to have them in the correct directory structure. The application uses JSON for the database, so it uses Gson library (version 9.8.9). Running the application can be done through command line/terminal using commands to first compile all the java files, and then using command to run the Play class. Running the application can be also done with an IDE (such as IntelliJ IDEA or Eclipse).

2.2. Input data

The input data are given either through command line/terminal or they are in a file. When taking data from command line/terminal the user is always given a prompt that says what is expected. When taking data from a file (text file) the program will load the information about a movie from a file. The file is expected to have following structure:

Type: Live action movie

Name: Dont worry darling

Director: Olivia Wilde

Year: 2022

Rating: 9

Comment: null

Olivia Wilde

Florence Pugh

Harry Styles

Chris Pine

Type: Animated movie

Name: your name

Director: Matoko Shinkai

Year: 2016

Rating: 7

Comment: null

Age: 15

Matoko Shinkai

2.3. Output data

The output data can be seen on the command line/terminal or in file. The actual output depends on the user's choice of action. If the output is a file, a text file will be generated, having the same name as the name of the movie.

2.4. Controlling the application

When the user runs the application, they will be prompted with ten choices, the user will only give a number, 1-10, depending on what they want to do. The user will be always given a prompt on what to do next. The first choice is to add a new movie, after choosing this, the user will be asked to add the details about the movie. The second choice is to show a certain movie. After choosing this, the user will be asked to enter the name of the movie they want to see the information about. The third choice is to add ratings to a movie of choice. The fourth choice is to remove a movie of choice, the fifth choice will list all the movies. Choice 6 will save a movie of choice to a file (movienametxt), and choice 7 will load a movie from a file. The eighth choice is for editing a movie of choice. The choice 9 will give the user all the actors that have been in more movies and the last choice will give the user all the movies of a certain actor. There's also choice 0 to exit.