

GROUP 10: Movie Manager

Purpose and Goals:

Make a simple movie manager that allows users to add, browse, and keep a watchlist of movies they want to watch.

Main Features and Elements:

- Elements:

- Title
- Studio
- Duration
- Likes
- Rating
- Genre

- Features:

A couple of our main features included the ability to **add movies** using an easy to follow layout, a **main list** which features all of the current added movies, a **filter function** so filter only movies that follow a genre that you are looking for, and a **sort function** to sort the movies in the list to follow a specific guideline, like alphabetically.

When we were looking at adding additional features, we created and implemented a **watchlist** to store a list of movies for the user to watch later. This feature gives additional reason for the user to consider using this service as many movie watchers want a way to organize lists within their app of choice and this feature can easily be expanded upon for more varied usage. We also added a feature that converted **minutes to hours** when it came to labeling a movie's length for a more convenient user experience.

- GUI:

Our graphical user interface (GUI) incorporates several unique features and design elements that enhance user experience and functionality. One of the standout components is the **Card Layout**, which allows for seamless switching between different displays. This design element enables users to navigate effortlessly between the main catalog and the movie addition interface, creating a smooth user experience.

The **search bar** is another key feature. It is designed with a placeholder text that reads "search..." which disappears as soon as the user begins typing. This interactive element mimics the behavior found in many modern applications, making it familiar and user-friendly.

Additionally, the **filter button** adds significant value to the user experience. This button toggles the filtering of movie genres with a single click. Once clicked, it filters the displayed movies based on the selected genre and can be clicked again to remove the filter, offering a dynamic and responsive interface.

Challenges and Team solutions:

One of the main challenges we faced was creating a separate frame for adding movies without disrupting the existing layout. We addressed this by implementing a Card Layout, which allowed smooth transitions between screens. Dividing responsibilities was also crucial. We each focused on different features like sorting, filtering, or the watchlist, and built on top of the shared codebase. This required strong communication and coordination to ensure our parts integrated seamlessly. Creativity played a big role in enhancing the app; we introduced features like genre filtering and duration conversion from minutes to hours to make the experience more user-friendly. Throughout the process, we collaborated closely, tackled bugs together, and supported each other to bring the project to life efficiently and effectively.

Future Improvements:

One of the key future improvements that should be made to the program is the ability for the app to **detect duplicates** and not allow them to be listed again into the movie list. Additionally, we can **expand upon the features** such as the watchlist to allow the user to make multiple lists of movies for different occasions other than just a watch list. We can also implement some form of **movie rental** into the app that would allow users to view a movie and/or allow the user to leave a **review** for movies that they have reviewed and allow other users on the site to view and interact with.