

Film Library: Lab Project Specification

Throughout the course labs, you will be incrementally building the **Film Library**, a simple web application for managing a personal film watchlist, tracking both desired and viewed movies. The application will meet the following requirements.

After logging in, users can build their movie library by adding new films, whether they have already watched them or plan to do so. Each film entry is associated with a single user and comprises a mandatory title, a Boolean field indicating whether the film is marked as a favorite, an optional watch date, and an optional numerical **rating** between 1 and 5, representing the viewer's rating after watching.

For films already present in the library, users should be able to selectively mark certain ones as favorites, thus curating a list of their preferred films. They also have the option to assign a watch date to each movie, aiding in distinguishing between watched films and those on their wish list. Additionally, users can rate movies on a scale of 1 to 5, expressing their preferences only among those they have already watched. Users have the flexibility to edit these details at any time.

Furthermore, the application should allow users to delete films from their library, and it must incorporate a watch date reset functionality, giving users the option to clear watch dates for all films in their personal Film Library.

Regarding the library's navigation and visualization, the application must have sorting and filtering options based on watch date and user ratings. Users can sort their films based on the watch date, and unwatched movies will be conveniently placed at the end of the list.

Finally, the application must provide diverse filtering options in the Film Library. Users should be able to choose to view "All" films (the default view), exclusively display "Favorite" films, showcase "Best Rated" films with a perfect score of five out of five, or filter for "Seen Last Month" to display films watched within the last 30 days.