

BigLab 2C: Complete APIs Integration (Add, Edit, and Delete)

What Are We Building This Week?

You will continue to **update the front-end** of the web-based FilmLibrary to **invoke all the APIs** designed and implemented in BigLab 2A. Specifically, you will invoke the APIs for *adding*, *updating*, and *deleting* films. Remember to minimize the “*n-clients problem*” shown during the lecture, by reloading the application state every time you modify the FilmLibrary on the server.

Step-by-step Instructions

Modify the front-end of the web-based FilmLibrary in the following ways:

- When the user adds a new film, it must be **saved on the server-side database**, and the displayed list of films must be updated accordingly. To do so, invoke the proper API endpoint for adding films, and then retrieve the updated list of films from the server. In this way you will be sure that client and server side are always aligned. Execute every add operation as performed by the user with id 1.
- Make the update operations persistent: when the user updates a film, the **film is modified on the server-side database**, and the list of films is updated and displayed accordingly. To do so, invoke the proper API for updating a film, and then retrieve the updated list of films from the server.
Beware: a film can be updated in three different ways:
 - By updating its fields through the dedicated form.
 - By marking it as *favorite/unfavorite*. The value can be changed through the checkboxes displayed near each film in the list.
 - By changing the previously assigned rating “in-line”. E.g., if the film is rated two out of five and the user clicks on the fourth star, the new rating becomes four out of five.
Note: if the user clicks on the current assigned rate, you should not trigger an update in the back-end.
- Make the delete operations persistent: when the user deletes a film, the **film is removed from the server-side database**, and the list of films is updated and displayed accordingly. To do so, invoke the proper API for deleting a film, and then retrieve the updated list of films from the server.

Hints:

1. All the specifications of the BigLab can be found at:
<https://github.com/polito-WA1-AW1-2022/materials/tree/main/labs/BigLab2>
2. **Trust the server!** It shall be always up-to-date, and every operation rely on it, not on the internal state of the web application.