01UDFOV/01TXYOV Applicazioni Web I / Web Applications I [2021/2022]

BigLab 1B: React Components' State

What Are We Building This Week?

You will continue to re-structure your web-based FilmLibrary to exploit the React framework and its component-based approach. Specifically, you will divide your application into different components, and you will identify the state and props required to store and visualize films. In addition, you will implement the filtering of the displayed films.

Step-by-step Instructions

- Organize the page using React functional components stored in different files. Your application, for example, might have distinct components to manage the navigation bar, the sidebar, and the list of films.
- Add a suitable set of *props* and *states* to each component. States and props used for visualizing films must be initialized using a proper JS data structure (i.e., an array of Films). To display the FilmLibrary, decide which components will hold the states, and how information propagates using props.
- Create all the suitable callbacks to implement the filters described below. When a filter is clicked, only the films respecting the specified filter criteria must be visualized. Specifically, filtering should not affect the value of the state(s) used to store the films, but **only** their visualization. To implement the filtering, you must associate the items in the sidebar to the following actions:
    - **All**: display *all* the films in the FilmLibrary (default filter).
    - **Favorite**: display only films marked as *favorite.*
    - **Best Rated**: display only films whose score is *five out of five*.
    - **Seen Last Month**: display only films watched *between today and the last 30 days*.
    - **Unseen**: display only films *without a watch date*.

Hints:

1. *Remind, the general specification of the BigLab 1 can be found at:* *https://polito-wa1-aw1-2022.github.io/materials/labs/BigLab1/BigLab1.pdf*
2. *The specification of BigLab 1A can be found at:* *https://polito-wa1-aw1-2022.github.io/materials/labs/BigLab1/BigLab1A.pdf*