Lab 8: Multiple Pages in React

You will update your React-enabled FilmLibrary to support multiple "pages" (through routes). Optionally, you will also allow users to edit "in-line" previously inserted films.

1. Enable Routing through React Route

Update the FilmLibrary application to support multiple "pages" using React Router. Specifically, implements the following points:

- The **form** for entering a **new film** must not be displayed anymore under the list of films, but it must be **displayed in a separate Route**.
- The **form for editing** an existing film must be **displayed in a separate Route**.
- Restructure the React application to implement each filter as a separate Route. **Beware**: if the user reloads the webpage when the browser URL corresponds to the Route of a given filter, the application has to use the URL to detect which is the current filter and it has to automatically apply it when the page is ready.
- Design and implement a **new page layout** to be rendered when the user enters an **invalid URL**.

Each of the routes described above should display the main graphical components specified in lab 4. Specifically, the **navigation bar**, the **sidebar** with the filters, and the **main** content (which will change according to the selected route).

The **"+" button** for adding new films must not be displayed in the routes for adding or editing a film.

2. *Optional*: Manipulating Films In-line

- Enable users to **delete films**. Clicking on the trash icon (🗑) near each entry of the film library, the corresponding film has to be removed from the library. When a film is removed, the list of films is updated without any other user action.
- Update the web application to give users the possibility of changing "in line" some film properties. Specifically, the application must implement:
  - The possibility of changing if a film is **favorite** or not by means of the related checkbox.
  - The possibility of changing the film's **rating** by clicking on a specific star. For example, 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 (this action does not allow users to set the rating to zero).

Hints:

1. *Official documentation of React Router: https://reactrouter.com/*