Lab 3: Getting started with HTML and CSS

In this lab, you will start implementing the graphical user interface (GUI) of the web-based version of the Film Library. To that end, you will work with **HTML**, **CSS**, and the **Bootstrap** framework.

As you have implemented in the first and second lab, the Film Library comprises a collection of films, each with a set of fields (id, title, favorite, watch date, and rating).

Note: Consider that you are NOT requested to implement any functionality in this lab, just to implement the web-based GUI according to the specifications. Indeed, since we are not using any database in this lab, (statically) populate the webpage with a few dummy films (4-5). A possible result is shown at the end of the first exercise (Figure 1).

1. Implement a web-based GUI of the Film Library

Develop a static webpage with the user interface to display the list of Films in the Film Library. Use the Bootstrap framework to structure and format the graphical components as described below:

- On the top of the webpage, there is a **navigation bar**, including a Film Library **logo**, a **search box**, and an icon representing a logged-in user.

- Below the **navigation bar**, the webpage is structured in two columns: the first one corresponds to a **left sidebar** that occupies one-third of the total width, and the second one corresponds to the **main content**, which occupies the remaining two-thirds.

- The **left sidebar** is composed of buttons designed to apply the filters over the Films in the Film Library. Such planned filters are: "All," "Favorite," "Best rated," "Seen last month," and "Unseen." Remember that in this lab, you are not required to implement the filtering feature; you just must display the name of the filters.

- The **main content** has: (**i**) a label to show the title of the current filter; (**ii**) the **films' list** that would result from applying that filter, and (**iii**) an element to create a new film and add it to the Film Library.

- Each movie in the **films' list** should be displayed in the following manner.

  - The title of the Film. The title of the favorite films should be displayed in red.
  - An element to show and set whether the Film is a favorite (☑) or not (☐).
  - The Film's watch date in the format "Month D, Yr" (e.g., "March 24, 2023"), if any.
  - The rating of the Film is expressed among one and five stars. If the score is not assigned, five empty stars are visualized.

- Finally, there is an element for creating a new entry below the films' list. It should be represented by the "+" symbol and positioned in the bottom right corner of the page.

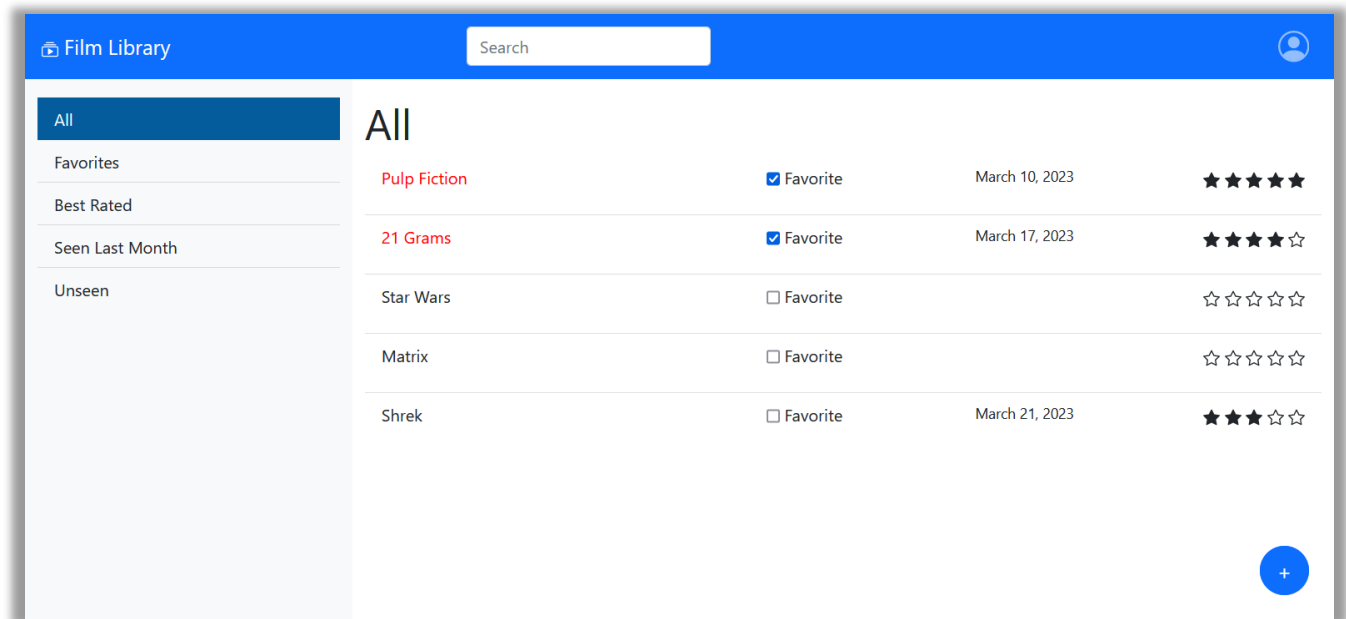Use the following screenshot as a reference:

FIGURE 1 REFERENCE SCREENSHOT

2. Optional: Implement the responsive version of the web-based GUI

As an optional exercise, you can try to exploit the responsive features offered by the Bootstrap framework so that if the webpage is ever displayed on a smartphone screen, the left sidebar and the search box should collapse (hide), and all the other components should be re-arranged to fit the screen width (e.g., as shown in the second screenshot below in Figure 2).
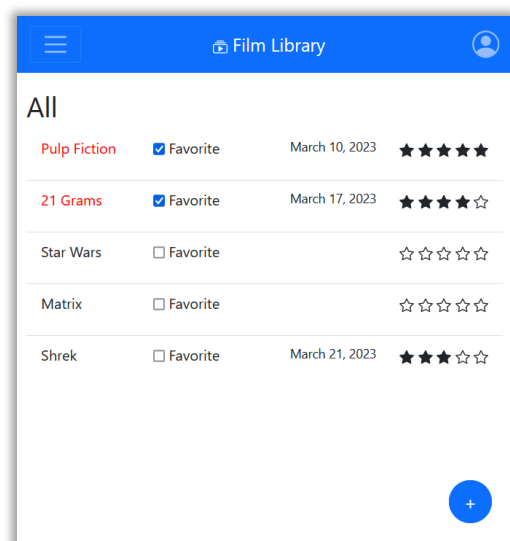

FIGURE 2 RESPONSIVE REFERENCE SCREENSHOT

Hints:

1. Use the Bootstrap framework and its components to implement the static webpage. Specifically, we are going to use version 5.2 (the same version used by React):
   https://getbootstrap.com/docs/5.2/getting-started/introduction/
2. You can use find the FilmLibrary logo in the Bootstrap Icons site:
   https://icons.getbootstrap.com
3. Feel free to create a separate CSS file to customize the appearance of your website.