CPSC 349 - Web Front-End Engineering

Homework 2: HTML, CSS, and JavaScript Exercise

1. Objectives

This assignment aims to:

- Develop proficiency in HTML, CSS, and JavaScript.
- Enhance the ability to accurately replicate a web page's appearance and functionality.

2. Description

In this exercise, you will create a web page from scratch using HTML, CSS, and JavaScript. The goal is to:

- Strengthen your ability to edit and structure HTML and CSS files.
- Build foundational skills for generating dynamic HTML output in future server-side scripting tasks.

3. Task

You will be provided with a demo video (**Demo.mov**) showcasing a web page. Your objective is to replicate the web page's appearance and behavior as closely as possible by creating the following files:

- **index.html** (HTML structure)
- styles.css (CSS styling)
- script.js (JavaScript functionality)

4. Requirements

Development

- Use a text editor to create your files (no website builders or frameworks).
- Apply CSS to style the web page.
- Ensure the web page behaves exactly as shown in the demo video.

Features

Your web application should include the following functionality:

Movie Display

- Fetch movie data using The Movie Database (TMDB) API: TMDB API
 Documentation.
- Sign up for a free TMDB API Key to access movie data.
- Display 20 movies per page.
- o Each movie should include:
 - Movie poster (image)
 - Movie title
 - Release date
 - Average rating

Pagination

- o Show the current page number at the bottom.
- o Include "Previous" and "Next" buttons for navigation between pages.

Search Functionality

- o Implement a search bar that allows users to search for movies by title.
- o Display only the movies that match the search input.

Sorting

- o Include a dropdown menu to sort movies by:
 - Release date
 - Average rating

Consistency with Demo Video

Ensure all interactions and visuals closely match the **Demo.mov** video.

5. Testing

• Open and test your web page in **Google Chrome** to ensure proper functionality.

6. Submission

Submit only the following files:

- index.html
- styles.css
- script.js
- readme.txt (optional)

Ensure that your submission meets all requirements and accurately replicates the web page demonstrated in the provided video.