

# COMPSCI 235

## Assignment 2 Report

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I have finished this assignment with a few improvements and enhancements on my own, while implementing a series of advanced features and full accessible unit testing. The details of installation and unit testing will be included in the readme file.

### Cool new feature:

I have added posters for every movie on web page using OMDB API with loading speed optimization. Requires Internet connection to fetch posters online, and connection failures will result in a default movie icon to be displayed in place as a failsafe option.

### Improved feature:

#### Web page design:

- The website featured a high-contrast color scheme, optimized for viewing in a dark environment such as a theatre to fit the purpose of the application.
- The color elements of the website are mainly composed of black (header, translucent navigation bar and sidebar), white (website logo on top-left, most of text), and blue (background with dark blue tone, buttons with light blue color), being a classic selection of a palette.
- A movie-themed photo background is also included within all pages.
- The sidebar has an increased recommendation from 3 listings to 5 listings, selected randomly by the application.
- The sidebar is displayed on a black semitransparent background for coherence in aesthetics.

#### Navigation Bar:

- The navigation bar has a search area under authentication area, and two sliders with hidden sliding bar which enables the user to browse from genres and directors and allow all genres and directors to display properly even on a smaller screen.
- All genres and directors are sorted in alphabetical order for user convenience.
- All movie items and added posters are clickable links to direct the user to a Google search of the movie title for more information.

**Search feature:**

- The search area allowed the user to select search criteria to search for movie titles, years of release, genres, actors or directors, and will alert the user to select the proper filter if the user proceeds to search function without selecting one.
- The search function is compatible with both exact match and partial match of the user-input keyword, without the need of specifying.
- The search function will display a message to the user if no matching results were found within the inventory.

**Comment and rating feature:**

- The comment section is included within every movie listing in the application, enabled by two separate buttons – show comments and add comments.
- The show comment button displays the current quantity of comments of a movie listing. All comments of the movie will be displayed below the movie listing once the user clicks the button.
- The show comment button will not be displayed below the movie listing if the listing currently has no comments.
- The add comment button simply displays “comment” and will be displayed below every movie listing. This enables the user to enter the comment section to add comments. All existing comments of the current movie, if any, will also be displayed in this section.
- The comment section is only open to registered members. All unregistered users will be redirected to the login page when attempting to enter the comment section.
- The comment section allows the user to allocate a rating between 1 and 10 to a certain movie when commenting on the movie. This rating will contribute to the current votes of the movie to calculate the overall rating.
- The rating may be an integer or a decimal number of user's choice.
- The user may not comment on a movie without a rating, and the comment section will alert the user if the rating is left blank.
- The application will not post a comment if one of the following applies:
  - ✧ Rating is out of range (i.e. below 1.0 or above 10.0)
  - ✧ Rating is left blank.
  - ✧ Comment is left blank.
  - ✧ A non-numerical value is entered in the rating section.
  - ✧ Comment is too short. An alert message will be displayed if the comment is shorter than 4 characters.