COMPSCI 235 Assignment 2 Design Report

New feature:

I have developed a new feature of interacting with OMDB to receive images for movies.

I think a movie web app which shows the detail of movies but without an image is not complete. A movie image would be more visualized and attractive than showing movie detail texts. As there are no image URL links given in the CSV data file as in the COVID web app, I tried to interact with OMDB to receive images for my movies. Firstly, I created an account in OMDB and get an API account. Then I tried to use the link example in OMDB website to get poster API requests starting with http://img.omdbapi… but it keeps showing 404 errors. Then I used the standard all data requested link start with http://www.omdbapi... to receive all the movie details and use urllib library to get the poster link and save the poster link for each movie with the given movie title. Finally, I adjusted the main.css file to style the size of the image to fit in the page.

Key designs:

As in the COVID web app, the colours of the pages are purple and green. But when I design my movie web page, I'd like to make it with black, grey, and white because I like black colour and I think these three colours can make a web page looks advanced and terse. Then I adjusted the style in the main.css of COVID web app to change the background colour and text colour. I design my movie web app in four sections, there is a stable top navigation bar at the top of the page, and the rest of the page is divided into three columns. At the most left column, it is a navigation bar. The content section which displays movie details is at the middle, and at the right, there is a sidebar shows the top-ranked movies.

I developed a top navigation bar in the web app which includes the search bar, register and log in area. At the most left of the top navigation bar, it shows the name of this web app and when the user clicks on it, the web page would be refreshed. Next to the web app name, there is a home button which directs the user to the home page. Then there is a single search bar which allows the user to search anything relates to movies, such as the year released, the movie title, the director, the actors and the genre. Then it will display all the related movie with the valid search text. However, at this time, it only allows the user to search for one item each time. For example, when the user types "Chris Pratt" who is an actor in the search bar, the web would display all the movies that Chris Pratt acted in; and when the user types "Family" in the search bar, the web would display all the movies with genre type Family. At the right of the top navigation bar, it's the section of user registration and login. If the user logged in, it would show "Hello" to the user with the user's username and log out choice.

At the original navigation bar section in the COVID web app, I changed the contents to the choice of years and genres. As there are limited number of years and genres for the movies, I think it's easier and more obvious to display all the choices for users to choose, so I designed

two sections in the navigation bar, one is "browse by release year" which allows users choosing which year's movie they want to see, and another is "browse by genre" which allows users choosing which genre of movie they want to see. As there are too many movies to display in the main content section with choose in the navigation bar, I used the similar approach to the COVID app's/articles_by_tag request handler that uses a cursor. With consideration of the movie contents displayed and the image size, I choose to display 2 movies per page and use a similar approach to the COVID web app to display first, previous, last, next buttons which allows user to see first/previous/last/next page of the movies.

At the sidebar section, there shows the top 10 movies with its name, released year, and top rank number which allows users to choose the highest rank movies. Firstly, the top 10 movies are only displayed as texts in the sidebar, but then I think it would be more convenient and professional to allow users click on that movie to see the details of the movie. Therefore, in the sidebar.html, I add a href link to allow the click on the movie directs to the page shows the details of the exact movie.