

1) The first feature I implemented was a movie recommendation system for when a user is logged in to their account. The recommendations are based off of the users watched movies list, and appear in the sidebar to the right hand side of the page. If the user isn't logged in, the sidebar just displays 'popular on CSFlix' movies, so the recommendations will take over this.

There are 3 recommendations that appear in the sidebar. The first one is based off genre, where the first genre of a random watched movie is selected, and then a list of all movies in the repository that are classified by that genre is made. From this list, a random movie is selected and used as the recommendation. The second one is based off director, which works similarly to getting the genre recommendation. It gets the director of a random watched movie, and gets a random movie from the repository that was also directed by that director. The last one is a 'watch it again' recommendation, something I've seen in services like Netflix.

Note that clicking on the underlined title of these recommendations will take you to the display movie page for that movie.

2) The second feature is a stats page for a logged in user. Here a user can see the number of movies they've watched and their total minutes spent watching. In addition to this they can see all reviews they've made and a list of all the movies they've watched.

The benefit of having this is just novelty, so that a user can track their history on the website and over time see how they use the app.

3) The third feature is in relation to the search functions. A fuzzy search algorithm has been implemented, with each search having its own weighting of similarities. It also doesn't matter whether or not capital letters are used.

This seemed very beneficial so that if a user misspelt or mistyped a search query, the result they were looking for may still come up.

Search ratios:

By title: 60% similarity

By director: 80% similarity

By genre: 100% similarity

By actor: 75%

These ratios seemed to be the most appropriate for what they were assigned to, as to not come up with too many results that were irrelevant to the search query but to still return desired results.