Chapter 2: User-Facing Backend

Ticket: Faceted Search
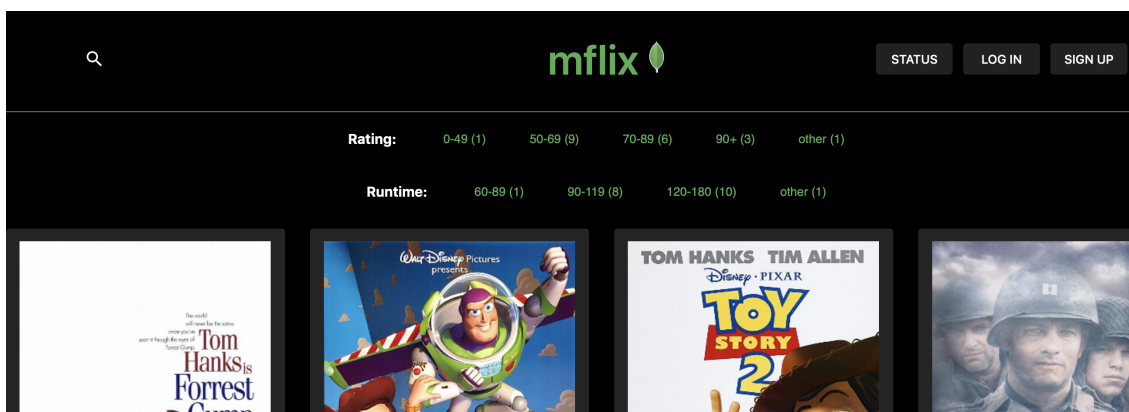

Problem:

User Story

"As a user, I want to be able to filter cast search results by one facet, **metacritic** rating."

Task

For this ticket, you'll be required to modify the **getMoviesCastFaceted** method in `MovieDao.java`, so the MFlix application can perform faceted searches. You will find a more detailed description of the task as a comment in the `MovieDao.java` file.

MFlix Functionality

Once the change is implemented for this ticket, the user interface will reflect this change when you search for cast (e.g. "Tom Hanks"), then additional search parameters will be added as shown below:

What is a Faceted Search?

Faceted search is a way of narrowing down search results as search parameters are added. For example, let's say MFlix allows users to filter movies by a rating from 1 to 10, but Kate Winslet has only acted in movies that have a rating of 6 or higher.

If we didn't specify any other search parameters, MFlix would allow us to choose a rating between 1 and 10. But if we first search for Kate Winslet, MFlix would only let us choose a rating between 6 and 10, because none of the movie documents in the result set have a rating below 6.

If you're curious, you can read more about Faceted Search here.

Faceted Search in MFlix

Faceted searches on the MFlix site cannot be supported with the basic search method **getMovies**. For faceted searches, the application must use the Aggregation Framework.

The method **getMoviesCastFaceted** uses the Aggregation Framework, and the individual *stages* in the pipeline have already been completed. Follow instructions in the `MovieDao.java` file to add the required stages to the pipeline object.

Testing and Running the Application

If the application is already running, **stop the application** and run the unit tests for this ticket by executing the following command:

```
mvn test -Dtest=FacetedSearchTest
```
COPY

Once the unit tests are passing, run the application with:

```
mvn spring-boot:run
```
COPY

or run the `Application.java` from your IDE.

Now proceed to the status page to run the full suite of integration tests and get your validation code.

To have the application use the changes that you implemented for this ticket, make sure to **restart the application** after you completed those changes. Also, only refresh the status page to see the new results of the tests, after the application has been restarted.

After passing the relevant tests, what is the validation code for **Faceted Search**?

Attempts Remaining: **Correct Answer** ✅ ⚪ ⚪

Enter answer here:

5aa7d3948adcc3fb770f06fb

Correct!	See detailed answer

Proceed to next section

Assignment is Due

06d:03hr:00m
Dec 10, 17:00 UTC

Your Grade

PASS/FAIL
Submitted