

PROBLEM SET 6

This graded problem set (6 points total) is due Sunday, April 23, 2023.

5.1 - MORE SQL (4PT.)

Clone the following repository: <https://github.com/DauphineWeb/Streaming>

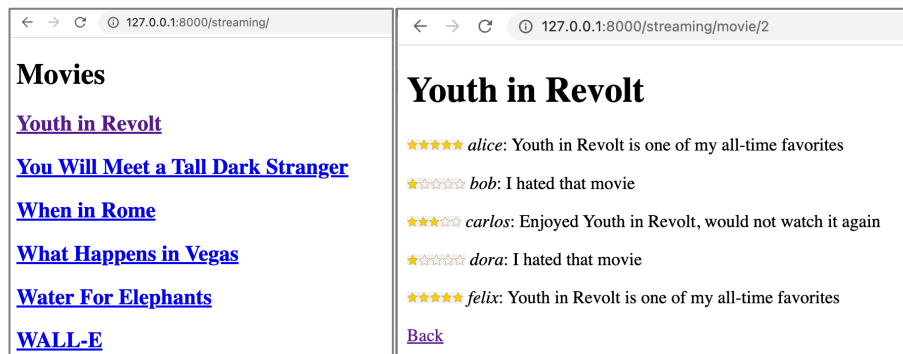
In it, you will find the application “streaming”. Its models.py file contains similar models to the ones we have discussed in class:

- a table of subscriptions, each of which can include multiple movies,
- a table of movies, each of which can belong to multiple subscriptions,
- a user profile which has a subscription associated with it,
- a review table containing reviews from user profiles with their associated movies.

The db.sqlite3 file is filled with sample data. Feel free to use the sqlite3 command or the Django shell to look through the sample data.

You can log into the admin page using the credentials “admin” (username) and “admin” (password). For each user in the User table, their password is “dauphine.”

Running the server, you should find that the /streaming url lists all movies. Clicking on a movie redirects to /streaming/movie/<id>, displaying all ratings to a particular movie.



Extend the project such that:

1. The home page shows the average rating. I.e., for “Youth in Revolt”, it should show the average rating of 3 stars $((5+1+3+1+5) / 5)$.
2. The home page shows how many ratings a movie got.
3. The home page should sort the movies based on their rating. The highest rated movie must come on top.
4. Add a route /user/<id> to the streaming app. This route should list all reviews from a user.

5. Add a route `/subscriptionplan/<subscription_id>` to the streaming app. Since each subscription only contains a select set of movies, this url should list all movies that are included for the specified subscription plan. I.e., the Ultra subscription plan should list all movies, the Basic subscription plan should contain 27 movies.
6. (1pt. bonus) As a BONUS task, incorporate a simple login. Once a user logs in, they should see the subscription plan they are currently in and what movies they can watch.
7. (1pt. bonus) As an additional BONUS task, if a user is logged in and looking at a movie, they should be able to leave a rating and a comment on that movie, if not done so already.

5.2 - GROUP PROJECT (2P.)

Continue working on your group project. If you are working with a relational database, slowly work towards a design you are content with.

By April 23, one of your group members should send me either a text summary (1-3 pages with screenshots) or a screen capture showing off your project. Describe your current progress and what problems you are facing. If it fits, I will try to incorporate it into the next lecture :)

Submit your solutions for 5.1 preferably via OneDrive, alternatively via GitHub, by April 23, 2023, to felix.fritz@dauphine.psl.eu.

For 5.2, if you decide to record a video, you can try to send it via mail or upload it as unlisted to YouTube.