Daniel Rachkidi

**Report: Advanced Web and JavaScript and API Management project**

**Back-end Java JPA and Spring boot folder java**

**Back-end JavaScript Node for folder node {for run (npm run dev)}**

**Front-end React and JSX in folder netflix-clone-js {for run (yarn start)}**

It started by creating the database before the start of the first back end where I create my database PostgreSQL in my docker composer where from it I connected to the IntelliJ so I can use it. I use in IntelliJ java (JPA and Spring boot) for my back-end server.

The data model with JPA that use the interface of each class in the data model (I just work on user class)

I started with user signup API request where I create UserController to put the API request which I define the meaning of signup in the Userservice which is connect to the repository of the user by the autowired and inside the repository I specify what I want exactly to show. But it needs a constructure where I create a folder dto inside Class UserVIew which it is connect to user class and put inside what response that I want to be showed.

I create WebSecurityConfig for the security where I can choose what I want in SecurityFilterChain where I permitAll() to it so it can work.

For the login I use oauth2ResourceServer and jwt (token) for it so when the system can verify the user if he is the same person using it and when he send it the system will send to him a token to use it for expiry 3600L which it is encrypted by RSA for securing the user information when login in to the system

I create Role class where I can specify the person if he is user or Admin, where I can restrict the user.

Create class Movie where the user last seen films, new movies, and recommendation

For Contact and address I create a lass for them, but I didn’t do an API for them

the API for back end of Spring boot:

User Role

* POST <http://localhost:8989/api/public/signup>
* POST <http://localhost:8989/api/public/login>
* By adding the token given from Login GET <http://localhost:8989/api/user/current>

**Admin roles know I didn’t use it but it work if I change it to user role**

* GET <http://localhost:8989/api/users>
* GET [http://localhost:8989/api/user/{{userId}}](http://localhost:8989/api/user/%7b%7buserId%7d%7d)

**The API for movie the same API with different pages.**

* Last seen GET <http://localhost:8989/api/movies>?page=1
* New movies GET <http://localhost:8989/api/movies>?page=2
* Recommendation GET <http://localhost:8989/api/movies>?page=3

Second back end I use node and JavaScript where I create database mongo db by mongo express in docker where the admin creates movie details (Post, Put, Delete, Get) where the user sees them in his account, he clicks on them he goes to the page where he can comment and rate them (Post, Put, Delete)

**API About the movies (Admin):**

* POST <http://127.0.0.1:4500/moviecharacteristic>
* PUT <http://127.0.0.1:4500/62f4ff08388e956e3017e81b> {\_id}
* DELETE <http://127.0.0.1:4500/62f4ff08388e956e3017e81b> {\_id}
* GET <http://127.0.0.1:4500/allmovies>

**API about Rating Movies (User):**

* POST <http://127.0.0.1:4500/userRating>
* PUT <http://127.0.0.1:4500/62f61a370678783e957983d5> {\_id}
* DELETE <http://127.0.0.1:4500/62f61a370678783e957983d5> {\_id}

**AS for the Front I use CSS Tailwind and JSX library of JavaScript in React**

I just use API for signup and login to the system I create page account, logout, and movies but I didn’t work on it is for the future plan

As for movies I use online API TMDB for the movies on the homepage

The Problems:

I still face problem about the password I can sign up null in the system which I find it a problem because I put restriction in IntelliJ and React

Where it shows in the video that I send