CloneNetflix Project

Welcome to the CloneNetflix project! This repository contains a web application with a backend in Java and a frontend built with React. Follow the instructions below to set up and run the project.

Prerequisites

1. **IDE**: Use IntelliJ IDEA for the best experience. If you don't have it, download and install it from JetBrains.

2. **JDK**: Install JDK 17. Other versions like JDK 20 or 21 may cause compatibility issues. Download it from Oracle's website.

3. **Node.js**: Install Node.js version 16. Newer versions might lead to dependency issues. Manage this using **nvm** (Node Version Manager).

4. **MongoDB**: Set up a MongoDB database using MongoDB Atlas. Search for tutorials on YouTube for creating a cluster with MongoDB Atlas.

Setup Instructions

1. **Download the Project**

   - Download the ZIP file of this project from the GitHub repository.
   - Unzip the file into a folder of your choice.

2. **Configure Node.js**

   - Install Node.js version 16 using **nvm**:

     bash   Copy code

     ```bash
     nvm install 16
     ```

   - Use Node.js version 16:

     bash   Copy code

     ```bash
     nvm use 16
     ```

3. **Configure the Backend**

- Open the project in IntelliJ IDEA.
- Navigate to **src/main/resources** and open the **application.properties** file.
- Update the following properties with your MongoDB details:

properties   ⧉ Copy code

```
spring.data.mongodb.uri=mongodb+srv://<your-database-username>:<your-database-
password>@<your-cluster-url>/admin spring.data.mongodb.database=<your-database-
name> spring.data.mongodb.password=<your-database-password> server.port=7777
```

- The backend will run on port **7777**.

4. **Configure the Frontend**

- Navigate to the frontend directory.
- Install the dependencies using Yarn:

bash   ⧉ Copy code

```
yarn install
```

- Start the frontend application:

bash   ⧉ Copy code

```
yarn start
```

- The frontend will run on port **3030**.

Running the Project

1. **Start the Backend**

- Run the backend server using IntelliJ IDEA or via the command line:

bash   ⧉ Copy code

```
./mvnw spring-boot:run
```

2. **Start the Frontend**

- Ensure the backend server is running.
- Start the frontend application using:

bash   Copy code

```
yarn start
```

3. **Access the Application**

   - Open your web browser and go to http://localhost:3030 to view the frontend.
   - The backend will be accessible at http://localhost:7777.

Available Scripts (Frontend)

In the frontend project directory, you can run:

- **`yarn start`**
  Runs the app in development mode. Open http://localhost:3000 to view it in the browser. The page will reload if you make edits and you will see any lint errors in the console.

- **`yarn test`**
  Launches the test runner in interactive watch mode.

- **`yarn build`**
  Builds the app for production to the build folder. It optimizes the build for the best performance.

- **`yarn eject`**
  This is a one-way operation. It will remove the single build dependency from your project and copy all configuration files and dependencies into your project. You don't have to use this unless you need full control over the configuration.

Troubleshooting

- **Dependency Issues**: Ensure you are using the correct versions of JDK and Node.js as specified.
- **Database Connection**: Verify the MongoDB URI, username, and password are correctly configured in `application.properties`.

Feel free to open issues if you encounter any problems or have questions.

Happy coding!