2023

CAB230 Assignment 2 Client Side

CAB230

Movies API – Client Side Application

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Contents

Introduction

Purpose & description

The application allows users to explore and view a set of movie data ranging from 1900 to 2023. These publicly available data are collected from Rotten Tomato, IMDB, and Metacritic. In the application, users can browse the dataset and apply filters and rank the dataset however they like. Users can also create accounts to view information about people that participated in a movie.

Instead using a bar char to categorise ratings, Chart.JS was used to create a line chart to visualize how the ratings of a person's works change over time. Reactstrap was also used to create clean navigation many other elements, such as Badge, Card, Notification, and Input.

Completeness and Limitations

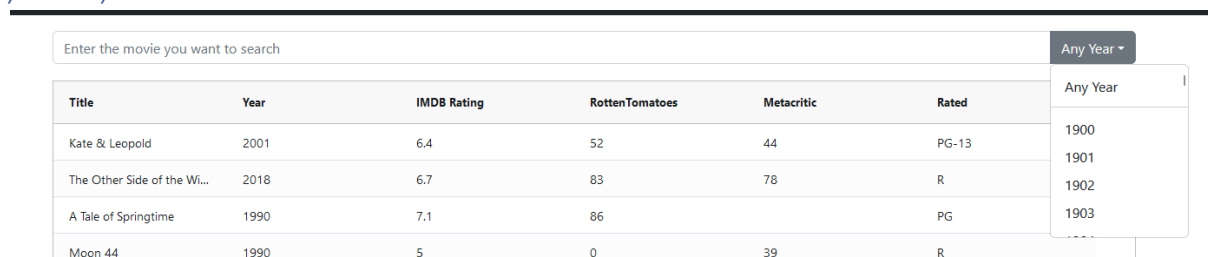Most of the functionalities required are implemented in the application:

1. navigation in the application is handled by Reach Router.
2. minimum styling is applied to organise web elements to ensure the information is readable.
3. data visualization is applied using AG Grid and Chart.JS

There was an attempt to implement infinite scroll to present more than 100 rows of data, however due to limited knowledge and time constraint was not successfully realized in the application. Moreover, not much styling and animation was not applied to the application.

Use of End Points

In this section we want you to show us the facilities that you have provided in the app. Here you should **organize the discussion around the endpoints of the API, showing the screen corresponding to that endpoint and providing a brief discussion of what it doe**s. (A couple of sentences is fine here – the screen shot tells the story. Write more if there is something you want to tell us. But otherwise just keep it short.)

/movies/search

The table below the search bar shows a list of movies by default. Users can enter the title they want to search and select a year (or not) and then press Enter to search and search result will be shown in the table instead.

Users can click on a row to view the detailed information of that movie and users will be taken to the corresponding page.

The Other Side of the Wind

Released in: 2018	
Runtime: 122	
Genres: `Drama`	
Country: France, Iran, United States	
Box Office: $0	

At a media-swamped party to celebrate his 70th birthday and screen his avant-garde film-in-progress, a legendary but jaded Hollywood director is faced both with voracious fans and unsettling questions about what became of his lead...

Role	Name	Characters
editor	Bob Murawski	
actor	John Huston	Jake Hannaford
actress	Oja Kodar	The Actress
actor	Peter Bogdanovich	Brooks Otterlake
actress	Susan Strasberg	Julie Rich
director	Orson Welles	
producer	Frank Marshall	
producer	Filip Jan Rymsza	
composer	Michel Legrand	

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Internet Movie Database `6.7/10`
Rotten Tomatoes `83%`
Metacritic `78%`

This is what users will see once they click on a movie. If they are logged in, they can click on a staff in the table to view detailed information about that person. If not, they will be prompt to log in.

/people/{id}

If users are not logged in:

You need to login to access individual person's information

If they are:

Peter Bogdanovich

1939 - 2022

Role	Movie	IMDB Rating	Character/s
actor	The Other Side of the Wi...	6.7	Brooks Otterlake
director	Noises Off...	7.5	
director	The Thing Called Love	6.4	
director	The Cat's Meow	6.4	
director	She's Funny That Way	6.1	
self	Hitchcock/Truffaut	7.3	Self
self	They'll Love Me When I'...	7.4	Self - Actor, Director

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Peter Bogdanovich's performance trend at a galance
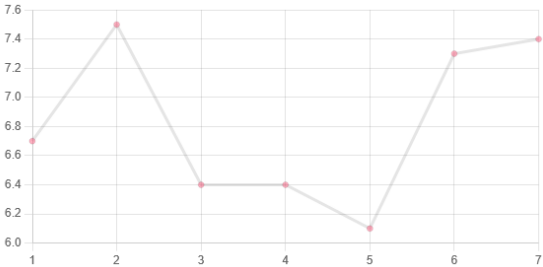
The chart at the bottom shows how ratings of the person's movies change over time

Registration

Email
test@test.com

Password
••••••

Confirm Password
••••••

Submit

If registration failed:

User already exists

Registration

Email
test@test.com

Password
••••••

Confirm Password
••••••

Submit

If registration went through:

User created

Registration

Email
test1231231231@test.com

Password
••••••

Confirm Password
••••••

Submit

/user/login

Login

Email
yxy624573403@gmail.com

Password
●●●●●●

Submit

If the entered email or password is incorrect:

Incorrect email or password

Login

Email
yxy624573403@gmail.com

Password
●●●●●●●●●●●●●●

Submit

Otherwise:

Log in successful

Login

Email
yxy624573403@gmail.com

Password
●●●●●●

Submit

And the navigation bar will reflect this:

Johnny Yang   Home   Movies   Logout: yxy624573403@gmail.com   Register

/user/refresh

Token refresh takes place when users attempt to access an individual person's imdb information. The application attempts to access '/people/{id}' using an existing bearer token, then if the bearer token has expired, the application uses the existing refresh token to attempt refreshing authentication. If the refresh token is also expired, the application will notify users to re-log in.

/user/logout

After logging out, users will be automatically taken to the log in page.

Modules Used

Ag-grid-react
Module to provide fully-featured table components.

https://www.ag-grid.com/react-grid/

reactstrap
Module to create clean and lightweight web elements.

https://reactstrap.github.io/?path=/story/home-installation--page

Chart.js
Module to create charts.

https://www.chartjs.org/
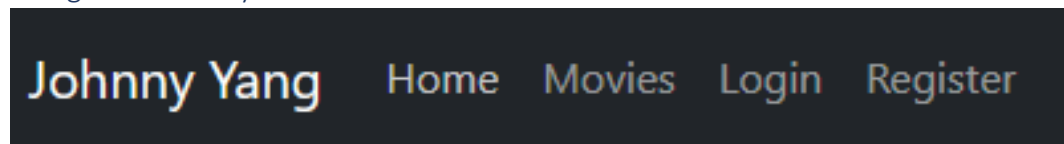
Application Design

Navigation and Layout

Navigation was designed to be simple to use and easy on the eyes. It provides four items for users to navigate to all the core functionalities the application has to offer. When the windows size is not big enough to display four items, they will be collapsed into a drop-down menu so that the application is accessible for mobile users.

No mocks were since the task sheet provided an example to follow. The application made changes to the layout in the example.

Usability and Quality of Design

Overall, the application is well organised – the layout is clean, and the navigation is clear and intuitive. When users hover over a navigation item, the item becomes highlighted to inform users that the item is interactable. And when users are on a page, the corresponding navigation item will be highlighted to indicate to users where they currently are. The visual design is also consistent across pages – content is presented in columns, minimum fonts and colours were used to not cause confusion. The use of colours is also consistent in that red and yellow represent failures or error and green and blue signifies success.

The flow of the application is designed to not be novel and foreign so that users can easily navigate and use the application by referencing their experience with other web applications.

The main drawback is the individual person page which lacks organisation compared to other pages in the application. The individual person page could use more thoughtful design to present the data in a more visually pleasing way. The current implementation is not separating the content very well which could lead to confusion.

Accessibility

- All images are provided with text that describe the image.
- Alerts, notifications, and buttons convey the same information with or without their colours.
- There are no screen flicks involved.
- For tables, column headers are clearly differentiated from the data.
- There is sufficient contrast between the text on the home page and the background image.
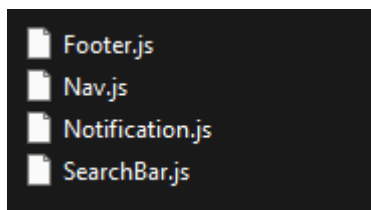- Relative units are used to make elements responsive.
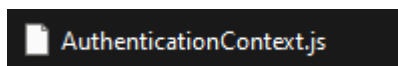
Technical Description
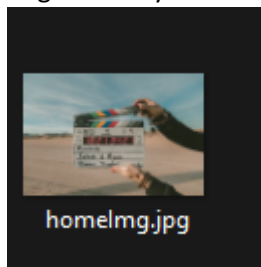
Architecture

src directory:
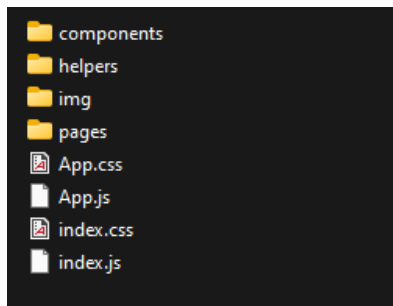
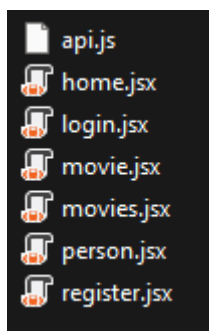components directory contains reusable components.

helper directory contains help functions, in this case there is a function that authenticate users.

img directory contains all images used in the application.

pages directory contains all individual pages in the application. They are responsible for rendering all elements on a page.

Test plan

Logging in with incorrect username/password:

Incorrect email or password

Logging in with correct username and password:

Log in successful

Registering with a used email:

User already exists

Registering successfully:

User created

Accessing individual person's page without logging in:

You need to login to access individual person's information

Accessing individual person's page when refresh token has expired:

Your session has expired, you need to re-login.

Difficulties / Exclusions / unresolved & persistent errors /

Infinite scroll was not implemented since the plan was to first have a functioning application and the put in additional features. However, by the time to implement infinite scroll, there weren't much time left to learn about infinite scroll and implement it.

The notification colour in the register page doesn't seem to be changing based on the response from the API.
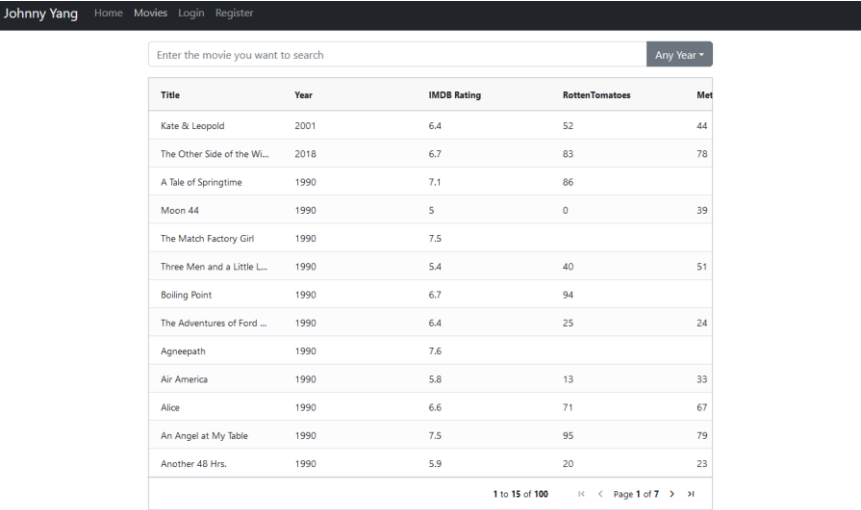
User created

User already exists

User guide

Users are first welcomed by the home page.

Users can search for movies using the search bar or explore the already present movies

The Other Side of the Wind

Released in: 2018	
Runtime: 122	
Genres: Drama	
Country: France, Iran, United States	
Box Office: $0	

At a media-swamped party to celebrate his 70th birthday and screen his avant-garde film-in-progress, a legendary but jaded Hollywood director is faced both with voracious fans and unsettling questions about what became of his lead...

Role	Name
editor	Bob Murawski
actor	John Huston
actress	Oja Kodar
actor	Peter Bogdanovich
actress	Susan Strasberg
director	Orson Welles
producer	Frank Marshall

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Internet Movie Database 6.7/10
Rotten Tomatoes 83%
Metacritic 78%

If users would like to know more about a movie, they can click on that movie and view the detailed information.

Here, users can learn detailed information about participants of a movie by clicking on that person. However, they need to log in to do so.
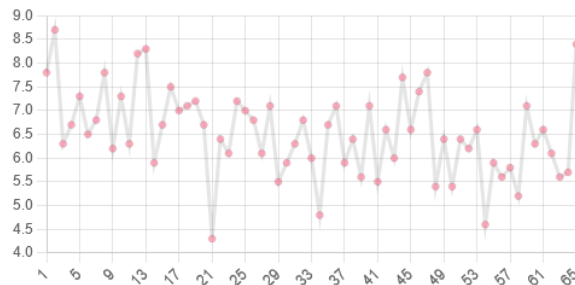
Robert De Niro

1943 -

Role	Movie	IMDB Rating
actor	Awakenings	7.8
actor	Goodfellas	8.7
actor	Stanley & Iris	6.3
actor	Backdraft	6.7
actor	Cape Fear	7.3
actor	Guilty by Suspicion	6.5
producer	Thunderheart	6.8

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Robert De Niro's performance trend at a galance

If they were logged in, they can see the information.

Registration

Email
email@email.com

Password
●●●

Confirm Password

Submit

Users without an account can register an account by clicking on 'register' in the navigation bar. Here, users must fill in all inputs and have matching 'password' and 'confirm password' to be able to click on 'submit'.

User already exists

If the email is already used by an account, this notification will be shown.

User created

Otherwise, this is shown.

Users can log in by clicking on 'Login' in the navigation bar to log in. Here, both inputs must be filled to click on 'submit'.

If the email and/or password were incorrect, this notification will be shown.

Otherwise, this is shown.

When a user's bearer token has expired, the application will attempt to refresh the token using the existing refresh token. However, if the refresh token is also expired, the application will display this message to prompt the user to log in again.

After logging in, users can log out using the 'Logout' button in the navigation bar.