2023

CAB230 Assignment 2 Client Side

CAB230

Movies API – Client Side Application

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# Contents

Introduction

Purpose & description

This website aims to give a comprehensive set of information on a subset of movies released since 1990. The site's interactions are made through a published REST API, the documentation for this can be found here: http://sefdb02.qut.edu.au:3000/. The API uses dataset based on data from sources such as IMDB, Metacritic, and RottenTomatoes.

Users can look through the movie catalogue provided on the website and gain some insight on the movie. They can see a short description of the movie's plot, the people who worked on the film and their roles, ratings from the aforementioned websites. Additionally, users who are registered can see information about cast and crew such as other movies they've worked on and IMDB ratings of the movies they were in. React modules such as Ag-grid and Chart.js were utilised to display data more cleanly and efficiently.
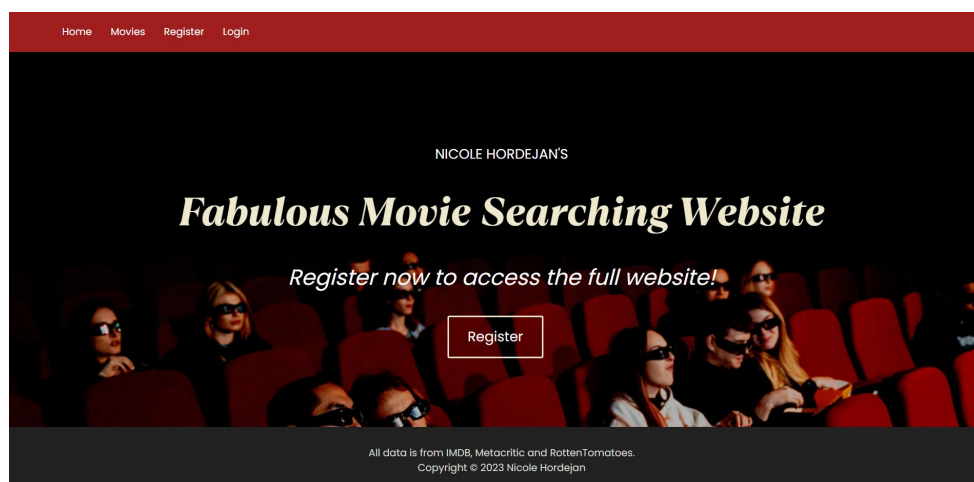
Home Page
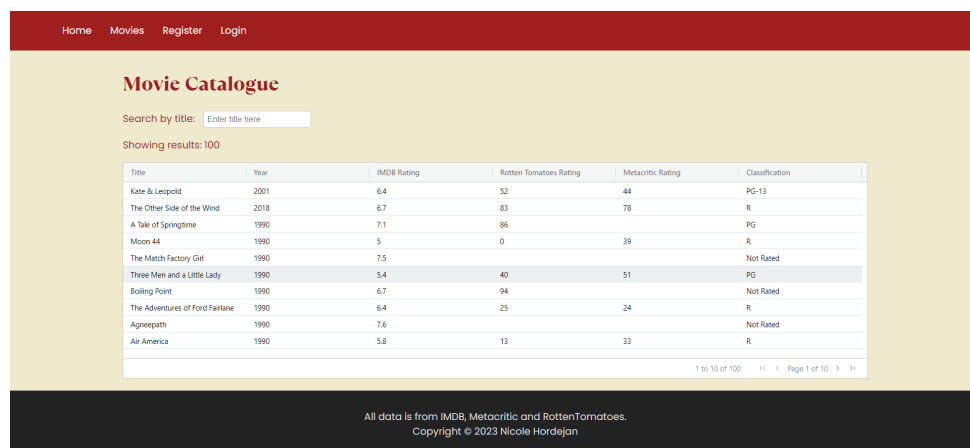
Movie Catalogue Page

Completeness and Limitations

Features of the website include:

- Navigation – React routing was used for ease of navigation. When a user is logged in the Registration button is replaced with a Logout button and the user's email address is displayed at the header. After a user registers, they will be navigated to the login page.

When a user tries to click on the actor and crew's table, they will be redirected to the Login page if they are not logged in.

- Search – Users can easily search the movie catalogue with the search bar provided.
- Ag-grid – This was used for the tables such as the movie catalogue and the list of cast and crew. The only table that doesn't respond when a row is clicked is an actor or crew's page.
- Chart.js – This can be seen in the cast and crew page to display the IMDB Ratings of the movies they have been in.
- API End Points – All API End Points were utilised and a more detailed overview of this can be found below.
- Refresh Tokens – Refresh tokens from the API End Point is used so the user isn't logged out after ten minutes.

Limitations:

- The movie catalogue only shows the first 100 results of the API Endpoint.

Use of End Points

/movies/search

This API end point gives an array of objects containing information about a movie's title, year, imdbID, imdbRating, rottenTomatoesRating, metacriticRating and classification properties. All of this is then formatted into a table using the ag-grid-react module.

/movies/data/{imdbID}

This end point is what is called when one of the rows is clicked. This will fetch data using a get request for a movie based on its IMDB ID. It will show its title, ratings, a brief description of the plot, the year it was released, genres, runtime, country, as well as a list of cast and crew members.

An English Duke from 1876 is inadvertedly dragged to modern day New York where he falls for a plucky advertising executive.

Kate & Leopold

IMDB Rating: 6.4/10
Rottentomatoes Rating: 52%
Metacritic Rating: 44%

Year: 2001
Runtime: 118 minutes
Genres: Comedy, Fantasy, Romance
Country: United States
Box Office: 47121859

Principals

Category	Name	Character
editor	David Brenner	
actress	Meg Ryan	Kate McKay
actor	Hugh Jackman	Leopold
actor	Liev Schreiber	Stuart Besser
actor	Breckin Meyer	Charlie McKay
director	James Mangold	
writer	Steven Rogers	
producer	Cathy Konrad	
composer	Rolfe Kent	
cinematographer	Stuart Dryburgh	

1 to 10 of 10 |< < Page 1 of 1 > >|

All data is from IMDB, Metacritic and RottenTomatoes.
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/people/{id}

This will do a get request and will give information about a person who worked on a movie based on their IMDB ID. It will show all the movies that they were, what they did in the movie, and the IMDB Rating of the

Home   Movies   Logout   Logged in as: n11378925@gmail.com

David Brenner (1962 - 2022)

Back to Movies

Roles

Movie name	Category	Characters	IMDb rating
Kate & Leopold	editor		6.4
Independence Day	editor		7
Identity	editor		7.3
The Day After Tomorrow	editor		6.4
Batman v Superman: Dawn of J...	editor		7.2
Escobar: Paradise Lost	editor		6.5

1 to 6 of 6 |< < Page 1 of 1 > >|

All data is from IMDB, Metacritic and RottenTomatoes.
Copyright © 2023 Nicole Hordejan
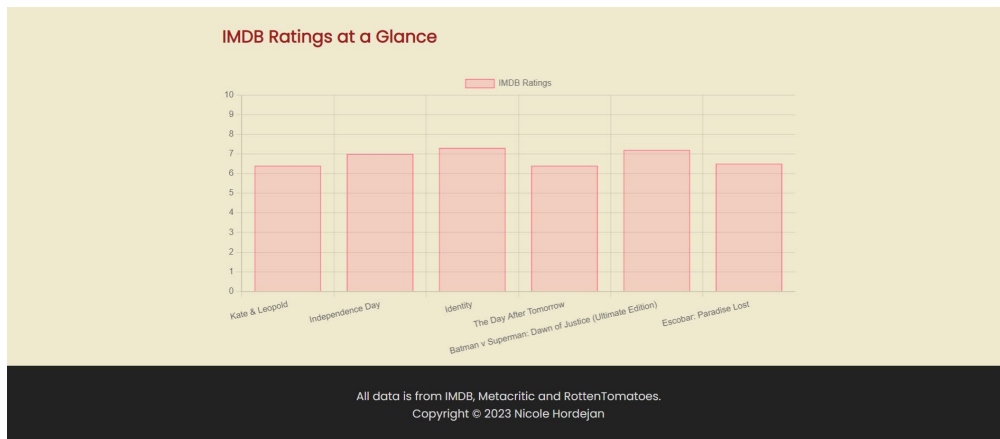
/user/register

This will create a new user account so that when that email and password is used it can get a bearer and refresh token.

/user/login

This will allow the user to login to an existing account and a request will be sent to get a bearer and refresh token to store locally into the website
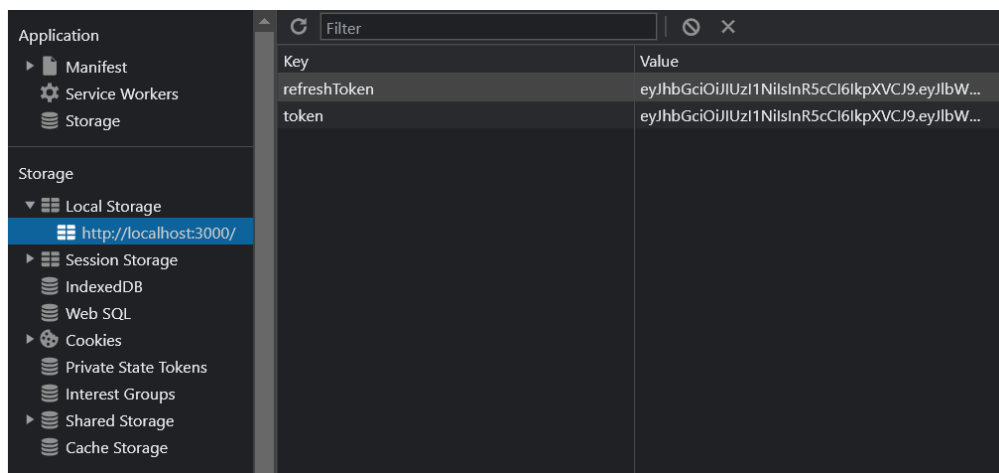

All data is from IMDB, Metacritic and RottenTomatoes.
Copyright © 2023 Nicole Hordejan
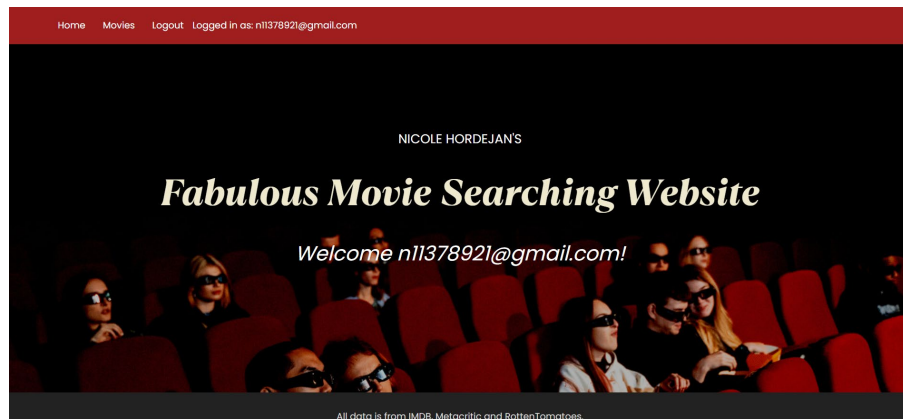
/user/refresh

When a user logs in it stores a token and refresh token onto the local storage of the website. Using this endpoint will give a new bearer token by using a refresh token.

/user/logout

When the user tries to logout the code will check if there is a token stored in the local storage. If it finds the token it will remove it from the local storage, so the user is logged out.
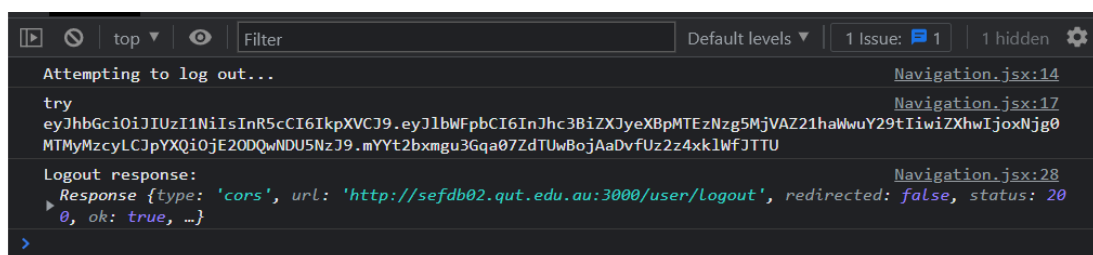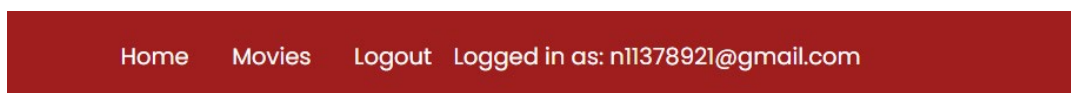
Modules Used

Ag-grid-react

This module was used for the table components of the website.

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

Chart.js

This module was used for the chart component of the website.

https://www.chartjs.org/

Application Design

Navigation and Layout

The initial designs of the website were made through Canva, which is an editing website. Only two fonts were used, and a plain manageable color scheme was used. Some considerations were made such as how movie information would be best for viewing and that the navigation header should be available for all pages. The idea for the layout of the website is for the user to be able to use the website with no complications.
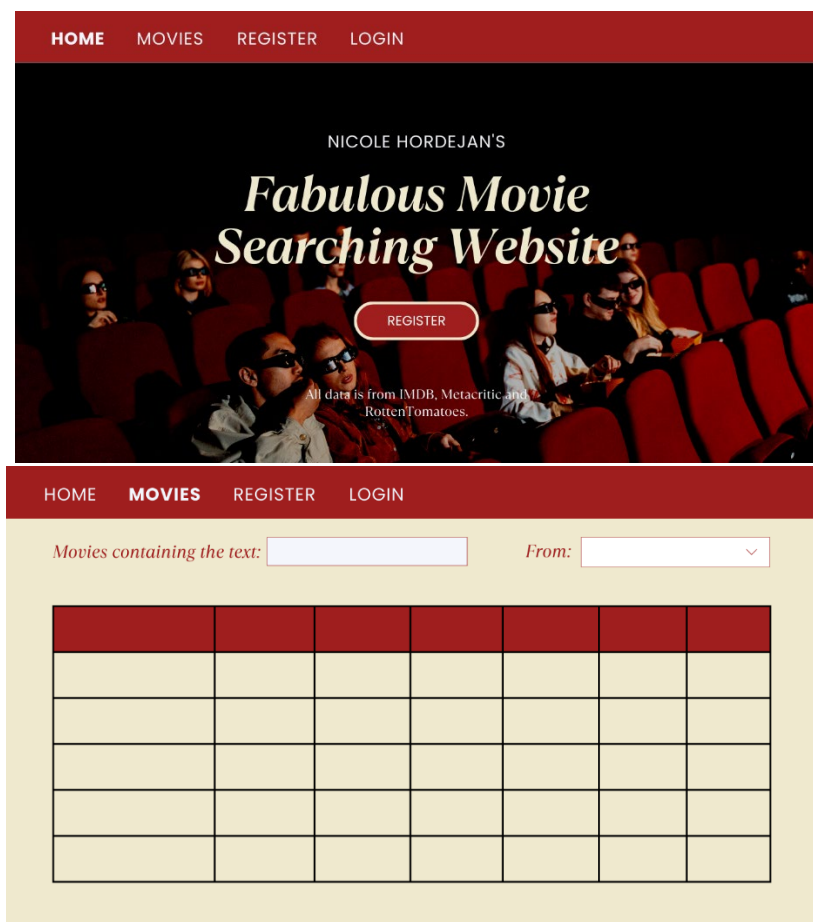
Color Scheme (In order):

- #000000
- #9F1E1E
- #DFD7C7
- #EFE9CE

Fonts:

- Poppins: Bold, Regular
- TT Ramillas: ExtraBold, Bold Italics, Regular

Plan 9 From Outer Space

Make sure there is enough space in case title is big

Internet Movie Database	Rotten Tomatoes	Metacritic
6.5 / 10	51%	51 / 100

Two Jedi escape a hostile blockade to find allies and come across a young boy who may bring balance to the Force, but the long dormant Sith resurface to claim their original glory.

Released in: 1999
Runtime: 136 MINUTES
Genres: ACTION, ADVENTURE, FANTASY
Country: UNITED STATES
Box Office: 474, 544, 677

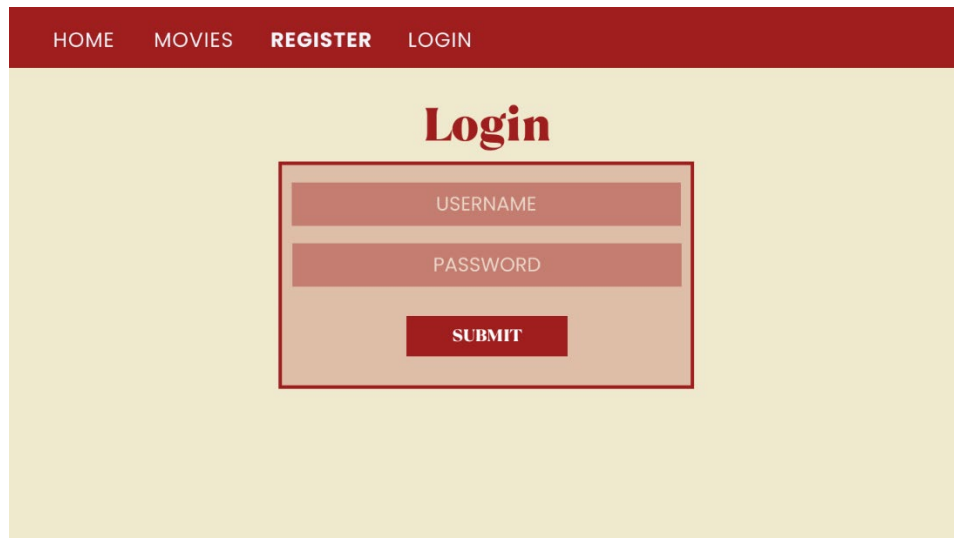| ROLE	NAME	CHARACTERS
Editor		

Registration

USERNAME

EMAIL

PASSWORD

CONFIRM PASSWORD

SUBMIT

Usability and Quality of Design

The User Interface was made with the theme of having a simple and clean look. The site is easy to navigate with clear labels. The user should be able to look through the website without any difficulty. The following are some clear examples of how the theme was implemented in the website:

- A **limited color palette** was used and should be consistent across different screens. This was also kept in mind so as not to overwhelm the user.
- **Common layouts** such as the ones used in the registration and login page were kept in mind so the users may use the site with familiarity.
- Elements such as buttons were made **interactive** like changing colors when hovering so that the user knows that it can be clicked.
- Only two fonts were used so the site won't look too messy and the sizes of these fonts were also considered. Examples of this are the most important parts such as the movie title having the biggest font size in the page.

Accessibility

The website was built in a simplistic way and therefore it was able to meet most of the Priority 1 Accessibility requirements. The following is an explanation how these requirements were met and how the website may have fell short of these guidelines:

- **Provide a text equivalent for every non-text element – alternatives to images, symbols, scripts, graphical buttons, sounds, audio and video files and so on.**
- **Ensure that text equivalents are updated when dynamic content changes.**

  The website mostly consists of text elements but it was unable to provide a non-text element for one part. In a movie page the user can see a poster and this has no text equivalent.

- **Ensure that all information conveyed with color is also available without color, for example from context or markup.**

  Only a limited number of colors were used in the sites color scheme so the site is easily managed even in a monotone palette.

- **Organize documents so they may be read without style sheets. For example, when an HTML document is rendered without associated style sheets, it must still be possible to read the document.**

  A number of style sheets were used but apart from a few instances such as the title of the movie not appearing right at the top in the movie page most of the pages can be easily read without the style sheets implemented.

- **Avoid causing the screen to flicker.**

  The website's design was made with a clean and sleek image in mind, so the color scheme and overall layout was simple. Doing this ensures that no computer isn't overwhelmed by the site's graphics.

- **Use the clearest and simplest language appropriate for a site's content.**

  Simple language was used for the user interface of the website to ensure that it can be easily used without instruction. Examples of this are on the registration page minimal information is required and some prompts are displayed such as "Passwords do not match".

- **For tables, identify row and column headers – clearly differentiated from the data.**

  The Ag-grid-react component was used to do the tables so the users can easily read and navigate through the tables.

## Technical Description

Architecture

This is the basic structure commonly used in other react apps. Public contains any pictures used in the website and src holds the code for the website.

```
> 🗁 public
> 🗁 src
    🗋 .gitignore
    🗋 package-lock.json
    🗋 package.json
    🗋 README.md
```
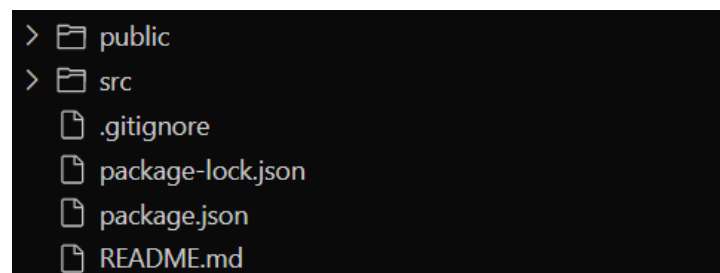
In the src folder, four other sub folders can be found: components which stores components that are used across pages, font which stores font files, pages which are the different javascript pages of the app, and style which holds the css style sheets.
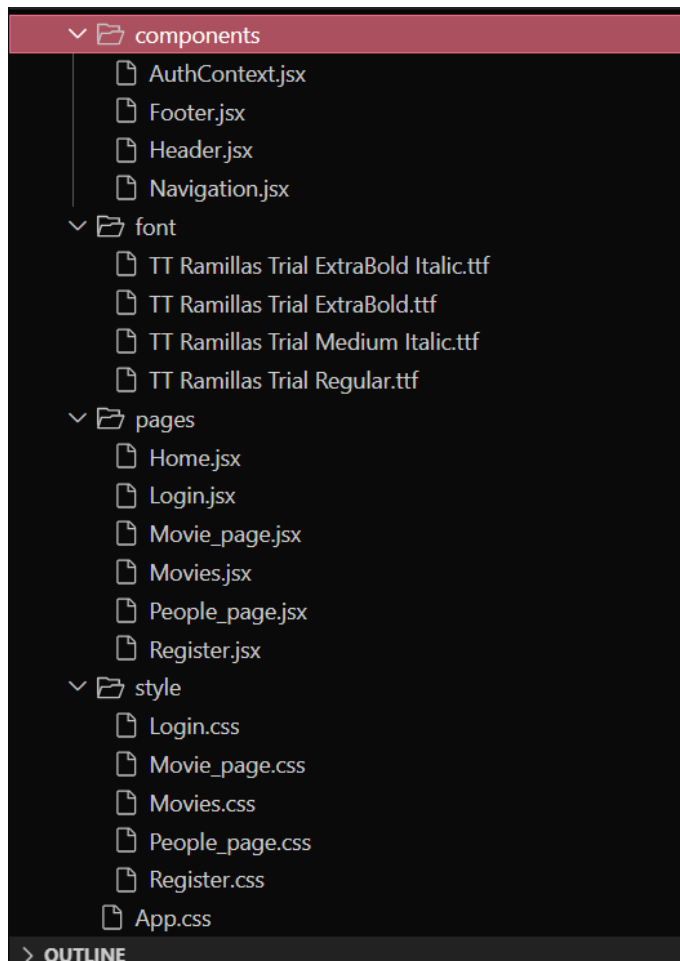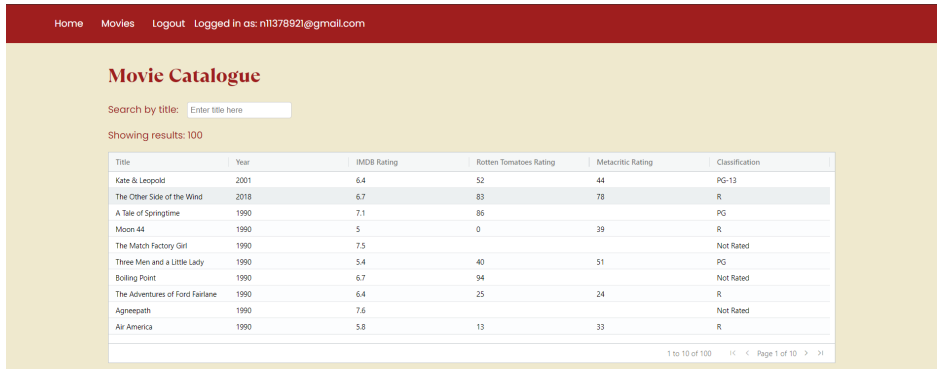
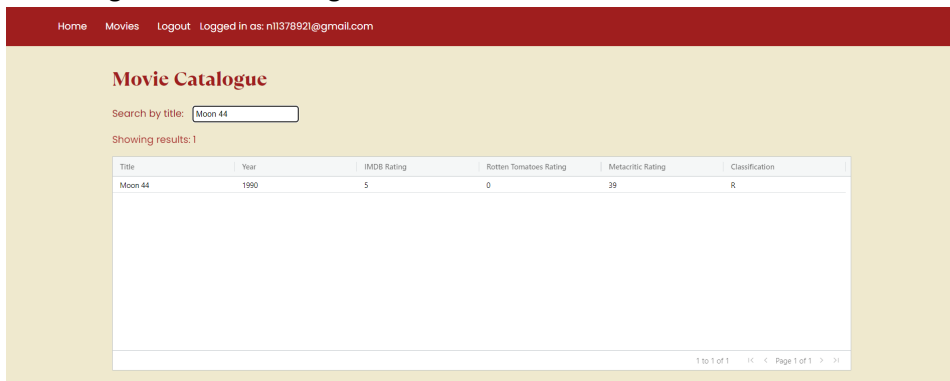Other files of the src include the basics such as App.js and index.js.
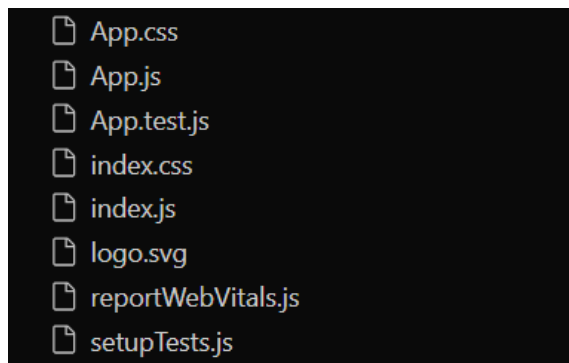
Test plan

Positive outcome cases
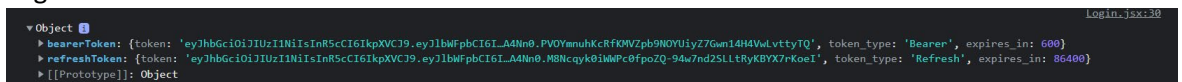
- Loading the Movie Catalogue

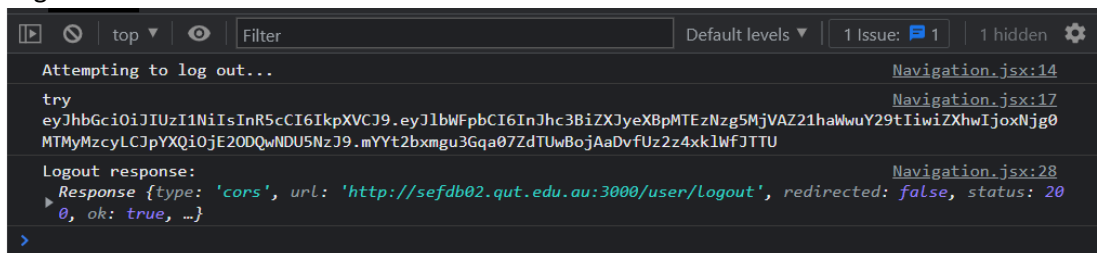- Searching the movie catalogue

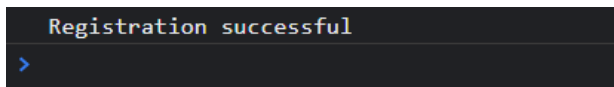- Loading the cast and crew page

- Login Successful

- Logout Successful

- Registration Successful

Negative outcome cases (error scenarios)

Upon testing there are no negative outcome cases but this may be due to lacking testing.

Difficulties / Exclusions / unresolved & persistent errors /

There were some difficulties in using the refresh token but it was resolved after a few trials.

User guide

This is the landing page of the website and the first thing a user sees when they go to the site. If it's their first time in the website they should go to the register page next. After registering the website will automatically navigate to the login page. Once the user is logged in the header will have a logout button and the user's email labelled. When the user is logged in they can access the table for cast and crew but if they are not they will automatically be navigated to the login page.
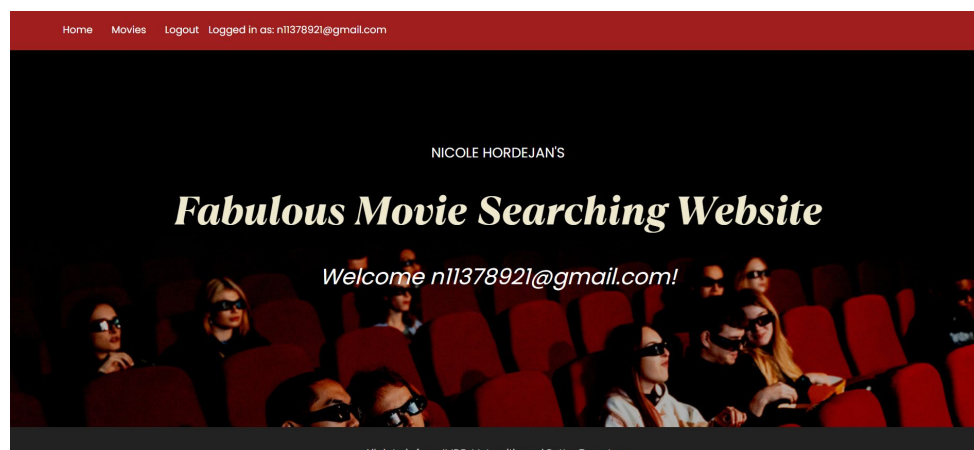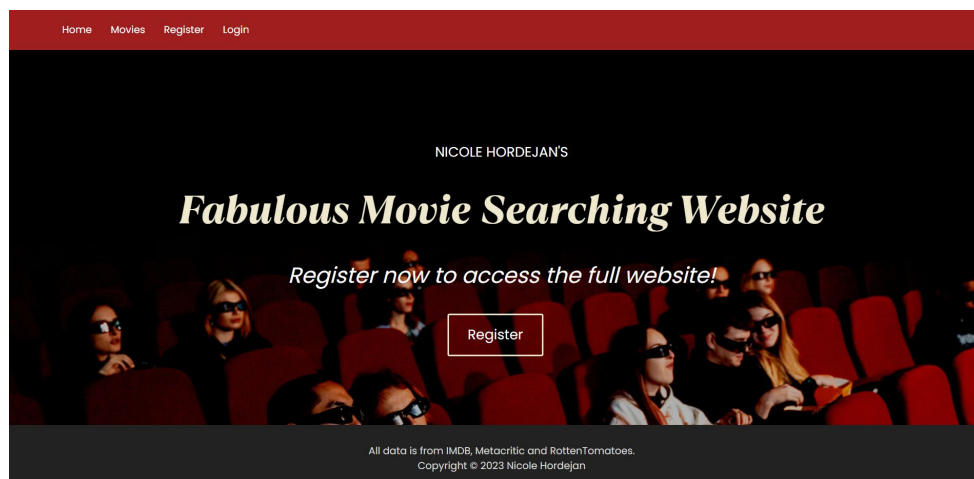
Registration

Name:

Nicole

Email:

n11378921@gmail.com

Password:

••••••••

Confirm Password:

••••••••

Register

Login

Email:

n11378921@gmail.com

Password:

••••••••

Login

NICOLE HORDEJAN'S

Fabulous Movie Searching Website

Welcome n11378921@gmail.com!

Movie Catalogue

Search by title: Enter title here

Showing results: 100

Title	Year	IMDB Rating	Rotten Tomatoes Rating	Metacritic Rating	Classification
Kate & Leopold	2001	6.4	52	44	PG-13
The Other Side of the Wind	2018	6.7	83	78	R
A Tale of Springtime	1990	7.1	86		PG
Moon 44	1990	5	0	39	R
The Match Factory Girl	1990	7.5			Not Rated
Three Men and a Little Lady	1990	5.4	40	51	PG
Boiling Point	1990	6.7	94		Not Rated
The Adventures of Ford Fairlane	1990	6.4	25	24	R
Agneepath	1990	7.6			Not Rated
Air America	1990	5.8	13	33	R

1 to 10 of 100 |< < > >| Page 1 of 10

Kate & Leopold

IMDB Rating:	Rottentomatoes Rating:	Metacritic Rating:
6.4/10	52%	44%

An English Duke from 1876 is inadvertedly dragged to modern day New York where he falls for a plucky advertising executive.

Year: 2001
Runtime: 118 minutes
Genres: Comedy, Fantasy, Romance
Country: United States
Box Office: 47121859

Principals

Category	Name	Character
editor	David Brenner	
actress	Meg Ryan	Kate McKay
actor	Hugh Jackman	Leopold
actor	Liev Schreiber	Stuart Besser
actor	Breckin Meyer	Charlie McKay
director	James Mangold	
writer	Steven Rogers	
producer	Cathy Konrad	
composer	Rolfe Kent	
cinematographer	Stuart Dryburgh	

1 to 10 of 10 |<   <   Page 1 of 1   >   >|

Meg Ryan (1961 -)

Back to Movies

Roles

Movie name	Category	Characters	IMDb rating
Kate & Leopold	actress	Kate McKay	6.4
Joe Versus the Volcano	actress	DeDe, Angelica, Patricia	5.9
The Doors	actress	Pamela Courson	7.2
Prelude to a Kiss	actress	Rita Boyle	5.6
Flesh and Bone	actress	Kay Davies	6.2
Sleepless in Seattle	actress	Annie Reed	6.8
I.Q.	actress	Catherine Boyd	6.2
When a Man Loves a Woman	actress	Alice Green	6.5
French Kiss	actress	Kate	6.6
Courage Under Fire	actress	Karen Walden	6.6

1 to 10 of 23 |<   <   Page 1 of 3   >   >|

IMDB Ratings at a Glance

IMDB Ratings

Addicted to Love
IMDB Ratings: 6.1
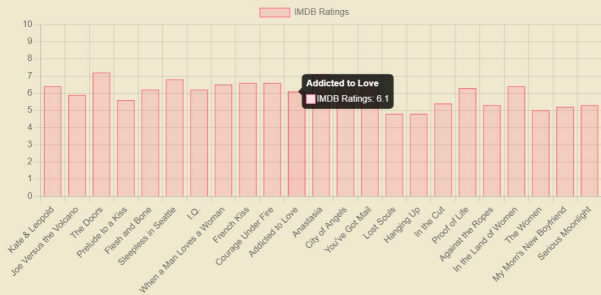
References

Use a standard approach to referencing – see the guidance at https://www.citewrite.qut.edu.au/cite/.

Appendices as you require them