

2025

CAB230 Assignment 2 Client Side



Welcome Movie Search Website!

By Krittaya Kruapat

Thank you for visiting! Enjoy browsing and discovering something new!

CAB230

Movies API – Client Side Application

Krittaya Kruapat

N12142492

3/31/2025

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Introduction

Purpose and Description

This application, which is driven by React, serves as a database for movies and people. It allows the user to go through all the details of the movies and he or she can easily find information about the crew of specific movies. Via API endpoints, the application gets all the information about the movies, the ratings of the movies, and the people who take part in them. Users are enabled to search for movies by their titles as well as to apply filters, showing only the ones released in a given year and even those that come with their pages fully loaded. The search results contain the movie's rating info from IMDB, Rotten Tomatoes, and Metacritic. People of interest are shown through their roles in different movies. Roles are accompanied by a bar chart of IMDB ratings that help tell the story.

In the app, the user is logged in and out by self-establishing his/her identity with incentives. These include user authentication with registration and login, the ability of users to access restricted pages after logging in. The app fulfills the movie search functionality beyond the scope of requirements by providing a full-fledged movie browsing service with data visualization and a user interface that reacts smoothly.

Key Functions

- User Authentication: JWT is utilized for the manual creation of registration, login, and session management. It has a built-in expiration mechanism that allows token refreshment without the need for re-login. Redirecting of users to proper locations based on token and login status is achieved practically.
- Movie and Person Detail Pages: Movies and person pages are presented in a fashionable way displaying rating from different platforms (IMDB, Rotten Tomatoes, Metacritic) and roles respectively. On the one hand, movies pages exhibit ratings from multiple rating sources, along with the front-end list of the people associated with the movie by their role and links to their profiles. On the other hand, person pages include in-depth tables, a concise portrayal of the roles and scores of the movies, and on top of that, graphics.
- AG Grid for Movie Data: AG Grid as the frontend library is utilized for quick and efficient processing of a large dataset with optimal performance. The grid is easily adjusted to meet users' needs with columns that can be sorted and filtered, as well as options for pagination making it easier for users to deal with a database full of numerous movies.
- Interactive UI: Aesthetically clean styling focused on user experience which means that the app should be very user friendly, mobile compliant, and appealing. It is a basic concept of the app design which is to provide the users with a good experience and make the app easily accessible. The form, the buttons, the tables all carry this user-friendly and simple appearance.

Completeness and Limitations

The application has implemented core features such as user authentication, protected routes, and data visualization. Nevertheless, the app has some restrictions:

Infinite Scroll: According to the mockups, the team actually used the infinite scrolling technique, but at the product realization stage, it was removed because it caused performance problems in combination with search and filter functions, thus making transmit speed slow.

Limited Filtering: A title and year can be searched in the app and advanced filters like genre or director are not available. If those filters were included, it would be easier for the user to find the needed information, which is a better way to experience information.

Loading Delays: When the app has to deal with huge amounts of data that are time-consuming to retrieve, the app may experience brief periods of delay. The performance of the app will be improved if the data acquisition process is optimized.

Use of End Points

</movies/search>

This endpoint retrieves a list of movies, displayed using AG Grid with sorting and searching. Each row links to the Movie Detail page.

The screenshot shows a web application for movie search. At the top, there is a navigation bar with four items: "Home", "Movies" (which is highlighted in blue), "Login", and "Register". Below the navigation bar is a search section titled "Movie Search" with a clapperboard graphic. It includes input fields for "Enter movie title" and "Select Year", and a "Search" button. The main content area displays a table of movie results:

Title	Year	IMDB Rating
Kate & Leopold	2001	6.4
The Other Side of the Wind	2018	6.7
A Tale of Springtime	1990	7.1
Moon 44	1990	5
The Match Factory Girl	1990	7.5
Three Men and a Little Lady	1990	5.4
Boiling Point	1990	6.7
The Adventures of Ford Fairlane	1990	6.4
Agneepath	1990	7.6
Air America	1990	5.8

At the bottom of the table, there are pagination controls: "Page Size: 10", "1 to 10 of 100", and "Page 1 of 10" with navigation arrows. The footer of the page contains the copyright notice: "© 2025 Krittaya Kruapat. All rights reserved."

</movies/data/{imdbID}>

This endpoint fetches detailed data for a specific movie, shown on the Movie Detail page, which includes a table of key people with links to their Person Detail pages.

[Home](#) [Movies](#) [Login](#) [Register](#)

Moon 44 (1990)



Year: 1990

Runtime: 98 minutes

Genres: Action, Sci-Fi, Thriller

Country: West Germany

Box Office: Unknown

★ Ratings ★

IMDb: 5/10

Rotten Tomatoes: Unknown

Metacritic: 39/100

An unconventional corporate agent is given the task of shaping a group of violent criminals and technical wizards into a helicopter defense force assigned to protect a mining station on a remote moon.

Key People

Role	Name	Character
Cinematographer	Karl Walter Lindenlaub	N/A
Actor	Michael Paré	Felix Stone
Actor	Dean Devlin	Tyler
Actor	Brian Thompson	Jake O'Neal
Actress	Lisa Eichhorn	Terry Morgan
Director	Roland Emmerich	N/A
Writer	Dean Heyde	N/A
Writer	Oliver Eberle	N/A
Writer	P.J. Mitchell	N/A
Composer	Joel Goldsmith	N/A

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</people/{id}>

This endpoint provides details about a person, displayed on the Person Detail page. It includes a table of their movies, each with a link to the corresponding Movie Detail page, and a chart showing the person's IMDB rating distribution.

Home Movies Logout  mike@gmail.com

Dean Devlin

Born: 1962 Death: Unknown

Roles in Movies:

Role	Movie Title	Character(s)	IMDB Rating
Actor	Moon 44	Tyler	5
Writer	Universal Soldier	N/A	6.1
Writer	Stargate	N/A	7
Writer	Independence Day	N/A	7
Writer	Godzilla	N/A	5.4
Writer	Universal Soldier: The Return	N/A	4.2
Producer	The Patriot	N/A	7.2
Producer	Eight Legged Freaks	N/A	5.5
Producer	Cellular	N/A	6.5
Producer	Flyboys	N/A	6.5
Writer	Universal Soldier: Regeneration	N/A	5.3
Writer	Independence Day: Resurgence	N/A	5.2
Director	Geostorm	N/A	5.3
Director	Bad Samaritan	N/A	6.4

IMDB Rating Distribution:

Distribution of IMDB Ratings

IMDB Ratings Count

Rating Range	Count
4-6	7
6-8	7

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/user/register

The registration endpoint allows users to create an account and access protected content.

Home Movies Login Register

Register

Email

Password

Confirm Password

Register

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/user/login

The login endpoint authenticates users and provides tokens for access to restricted features.

Home Movies Login Register

Login

Email

Password

Login

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Home Movies Login Register

Login

Please login before viewing the details of the person.

mike@gmail.com

.....|

Login

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/user/refresh

This endpoint refreshes expired tokens, allowing users to stay logged in without re-entering credentials.

The screenshot shows a web application interface. At the top is a pink header bar with three items: "Home", "Movies", and "Logout". To the right of "Logout" is a user icon and the email address "mike@gmail.com". Below the header is a light gray content area. In the center, the word "Login" is displayed in a large, bold, dark blue font. Below it, a message in smaller dark blue text reads "Please login again. Your session has expired.". There are two input fields: one for "Email" and one for "Password", both with placeholder text and rounded corners. Below these is a purple rectangular button with the word "Login" in white. At the bottom of the content area, a small dark blue copyright notice reads "© 2025 Krittaya Kruapat. All rights reserved."

/user/logout

The logout endpoint ends the user session and clears authentication tokens.

The screenshot shows the main page of a movie search website. At the top is a pink header bar with three items: "Home", "Movies", and "Logout". To the right of "Logout" is a user icon and the email address "mike@gmail.com". Below the header is a light gray content area. In the center, the words "Welcome Movie Search Website!" are displayed in a large, bold, dark blue font. Below it, the name "By Krittaya Kruapat" is shown in a slightly smaller dark blue font. At the bottom of the content area, a small dark blue copyright notice reads "© 2025 Krittaya Kruapat. All rights reserved.". The page features several decorative icons: a film strip on the left, a movie ticket with "CINEMA" and "ADMIT ONE" on the right, a clapperboard at the bottom center, and a cartoon character on the far right. A circular progress bar or loading indicator is visible on the right side.



Modules Used

Ag-grid-react

Module to provide fully-featured table components, including sorting, filtering, pagination, and dynamic updates.

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

React-router-dom

A collection of navigational components to handle routing and navigation in the React app. It allows for URL-based navigation and dynamic page rendering.

<https://reactrouter.com/>

Chart.js

A library used to create interactive and visually appealing charts. In the app, it's used to display IMDB ratings in a bar chart.

<https://www.chartjs.org/docs/latest/>

React-chartjs-2

A wrapper for Chart.js in React that simplifies integrating charts into the app.

<https://react-chartjs-2.js.org/>

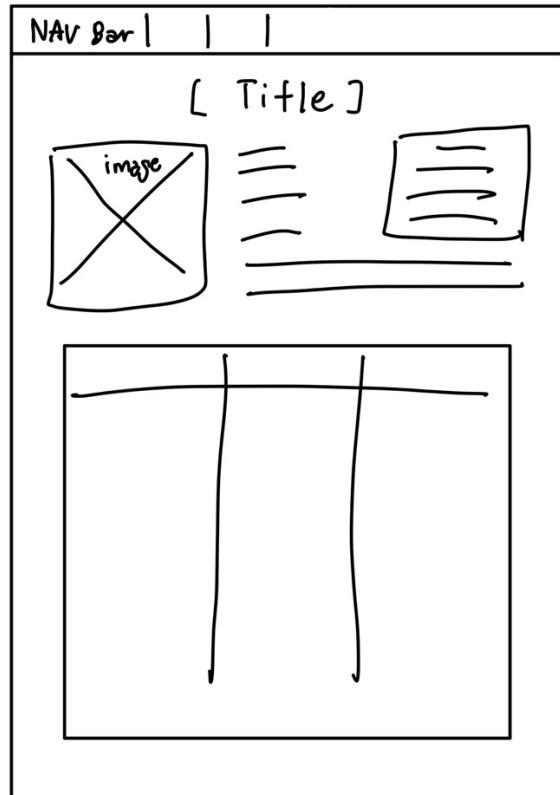
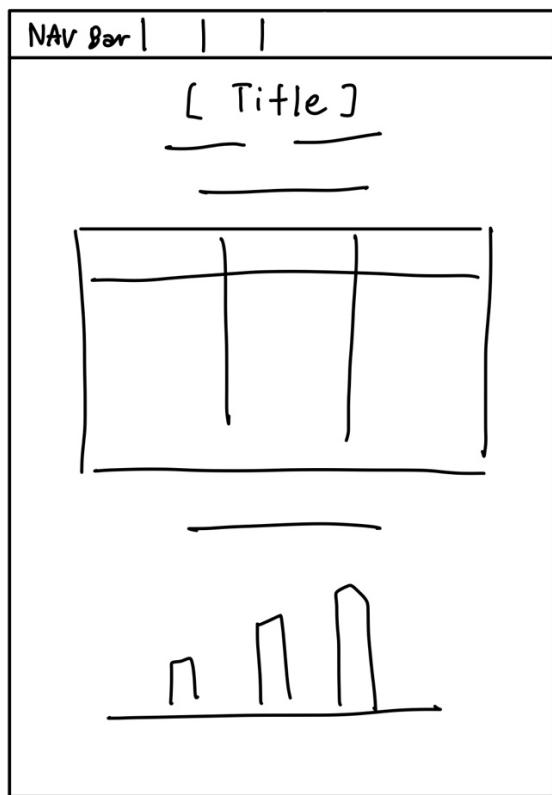
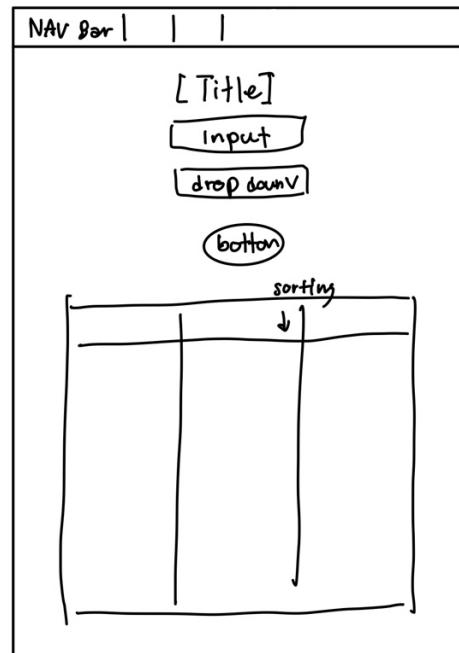
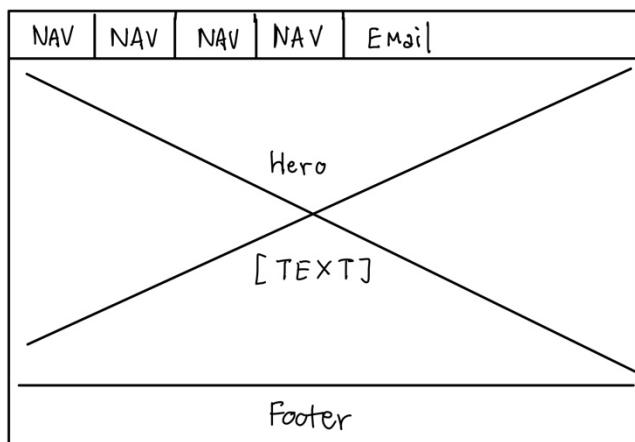
Application Design

Navigation and Layout

First, sketches were made, a very straightforward layout was designed. The priority was the functionality, so just the primary features like endpoints and AG Grid were included without any styling. The functions were of utter importance; once they were ready I could already apply some design elements.

For the navigation bar I made a selection of the top-left placement. It is the first pick since it is plain and makes it easy for the users. This location provides direct links to the Home page, Movie Search, Login, and Registration, so that anyone can land on the movie and person detail pages with no hassle. Placing the essential elements in the center assures an easy way for the users to find them and interact with them. To prevent the user from being overloaded with information by the content-heavy pages like the Movie Detail and Person Detail, I simply organized and kept the design clean. I also thought about putting a footer navigation bar in but decided that it made no sense and that it would actually make the situation worse. During the design process, mockups and sketches were periodically used to guide the layout and flow of the app.

Design Sketches:



Mock-ups:

Dimensions: Responsive ▾ 1093 x 960 74% ▾ No throttling ▾

Movie Search

Select Year ▾

Title	Year	Rank
Kate & Leopold	2001	
The Other Side of the Wind	2018	
A Tale of Springtime	1990	
Moon 44	1990	
The Match Factory Girl	1990	
Three Men and a Little Lady	1990	
Boiling Point	1990	

Page Size: 10 ▾ 1 to 10 of 100 Page 1 of 10 ▾

Dimensions: Responsive ▾ 1093 x 960 74% ▾ No throttling ▾

Welcome to the Movie App!

Dimensions: Responsive ▾ 1093 x 960 74% ▾ No throttling ▾

A Tale of Springtime (1990)

Year: 1990
Runtime: 158 minutes
Genres: Comedy, Drama, Romance
Country: France
Box Office: \$0

Plot: Simple conversations engender conflicting human interactions. Jeanne is open and even-tempered, a philosophy teacher at a lycee. Her fiancé is away and doesn't want to stay at his messy flat she's loaned him to a couple to...

Ratings:
(IMDb: 7.1)
Rotten Tomatoes: 86
Metacritic: N/A

Key People:

Role	Name	Character
Actor	Marc Lavoie	Gildas
Actor	Hugues Quester	Igor
Actress	Anne Teyssèdre	Jeanne
Actress	Florence Darel	Natacha
Actress	Elodie Bennett	Eve
Actress	Sophie Roblin	Gatlie
Director	Eric Rohmer	N/A
Producer	Margaret Ménégout	N/A
Cinematographer	Luc Pagni	N/A
Editor	Maria Luisa García	N/A

Kati Outinen

Born: 1961
Death: N/A

Movies:
No movies listed.

Roles in Movies:

Role	Movie Title	Character(s)	IMDB Rating
Actress	The Match Factory Girl	Iris Rukka	7.5
Actress	Drifting Clouds	Ilona Koponen	7.6
Actress	The Man Without a Past	Irma	7.6
Actress	Popular Music	Päivi	6.5
Actress	Le Havre	Aletty	7.2
Actress	Dark Crimes	Mr. Malinowska	4.6
Actress	The Hole in the Ground	Noreen	5.6

Usability and Quality of Design

The app is clean and well-organized with a clear and visually appealing layout. The usage of graphic elements, especially for ornamentation, brings out the "Wow Factor" of the pages, giving a warm and energetic feeling. Information is logically placed, ensuring users can easily find what they need. The structure is easily seen and the move from one part to another is instinctive through clearly labeled buttons, links, and sections. As a whole, the navigation is plainly and easily understood, and the app works in a logical manner which is acceptably user-friendly.

In the matter of consistency, the app familiarly uses the design patterns which are in common with people, such as the top navigation bar that the customers are already familiar with from the other applications they use. The locations of the buttons, icons, and images are reasonable, and the overall behavior matches with the users' expectations. The visual designs keep the same look, by using a similar color palette (pink and purple) and with headers and body text clearly defined with fonts. This kind of steadiness ensures that users don't get too much and end up having a unified and collective user experience just because of this consistency.

On the whole, the design is good enough, yet a few parts could be done better. For instance, the use of decorations on the movie search page might be too much for some users resulting in an overwhelmed and frustrating feel, and the design as developed for the person detail and movie detail pages could be simpler to use. One effective method would be to introduce dynamic elements or redesign the pages to make them more immersive, thus reinforcing the overall user experience.

Accessibility

The app performs well in terms of accessibility but could use some improvements. Not all images and buttons have text descriptions for screen readers, so adding more icons and descriptions would benefit users with reading difficulties. While the color scheme (mainly pink and purple) helps users with color blindness or poor vision, additional visual cues like icons could enhance accessibility.

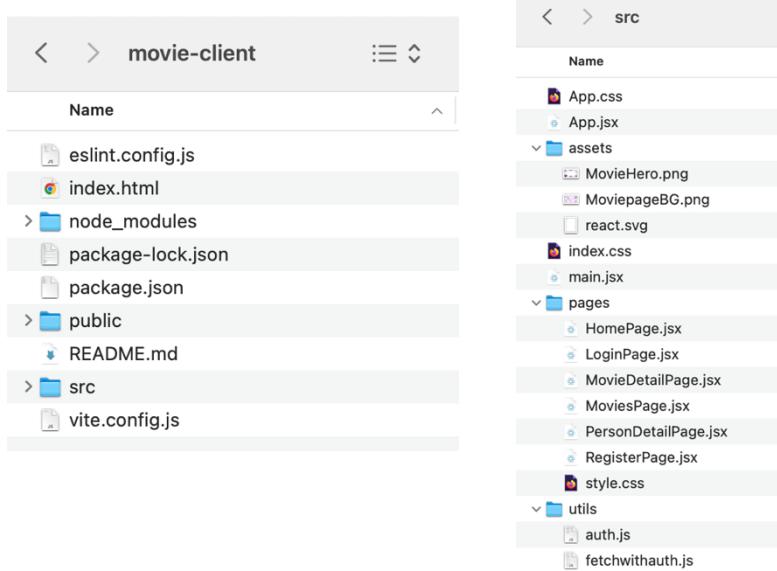
The app ensures screen readers can read updates when content changes, and it remains functional even when styles are disabled. Navigation is smoother with styles enabled. There's no flickering or flashing content, though loading pages could be optimized. The language is simple and clear, aiding users with cognitive disabilities.

The app supports keyboard navigation with easy tabbing and interaction with forms and buttons. Tables are organized with contrasting colors, and headers are labeled for screen readers. Further improvements, like adding icons for colorblind users and optimizing loading times, could enhance accessibility even more.

Technical Description

Architecture

This React-based development is based on a modular structure and it resides in the src directory. The entry point of this application is main.jsx, which gives life to the root component App.jsx. The App.jsx is in charge of the routing through the page using React Router, and the fixed navigation bar (created by styling the app using app.css) not only saves time but also is the bridge to the pages of Home, Movie Search, Login, and Register of the system. The page to page navigation on the application is pretty easy. Users can go from the Home page to the Movie Search and then to Movie or Person Details.



The pages/ folder can be said to contain the most important views (HomePage.jsx, LoginPage.jsx, RegisterPage.jsx, MoviesPage.jsx, MovieDetailPage.jsx, and PersonDetailPage.jsx). Besides fetching from the API, each of these pages handles the encryption of the data, the interaction with the user, and the proper writing out of the design. glob.css, which provides the same design of tables and buttons to different components, is in charge of the design.

Functions responsible for the user's authentication and the sending of API requests are part of the utils/ folder: e.g. auth.js, fetchwithauth.js. Images are the static resources hosted by the assets/ directory. Index.css, style.css, and app.css are the central repositories for the entire styling.

Such an arrangement guarantees the codebase to be clean, scalable, and maintainable. It is made possible by the fact that logic, visuals, and utility functions are in separate places. The logic of the system starts from the router in App.jsx and ends in the page components showing not only utility functions but also assets.

Test plan

Task	Expected Outcome	Result	Screenshot #
Create and test basic navigation bar	Navigation bar is visible and links work across pages	Pass	1
Movies Page (/movies)			
Fetch movie data from /movies/search, display using AG Grid	Movie data is fetched and displayed in AG Grid with sort, filter, and pagination.	Pass	2
Allow search functionality within the table	Users can search movie titles, and results update accordingly.	Pass	3
Allow filter by year	Year filter dropdown filters movies based on year.	Pass	4
Allow sorting by column	Users can sort by column (e.g., Title, Year) in ascending/descending order.	Pass	5
Handle pagination	Pagination limits results to 100 per page with a mention of more movies.	Pass	6
Click on a movie to view its details	Clicking a movie links to its detail page.	Pass	7
Movie Detail Page (/movies/:id)			
Fetch data from /movies/data/{imdbID}	All movie details (title, plot, ratings, poster) displayed	Pass	8
Show: Title, year, runtime, genres, plot, poster, ratings, cast	All movie details displayed correctly	Pass	8
Link cast members to their /people/{id} page	Cast members link to Person Detail page	Pass	9
Person Detail Page (/people/:id)			
Fetch person details from /people/{id}	Person details (name, birth/death year, movies) displayed	Pass	10
Show chart of rating distribution using chart.js	Chart shows movie ratings distribution	Pass	11
If not logged in, redirect or show message	Unauthenticated users redirected or shown login message	Pass	12
Auth (Register / Login / Logout)			
Build form for /user/register and /user/login	Registration and login forms work correctly	Pass	13
Save JWT and refresh token to localStorage	Tokens saved to localStorage on login	Pass	14
Add logout button that clears tokens	Logout button clears tokens from localStorage	Pass	16,17
Handle token expiry using /user/refresh	Tokens refresh automatically on expiry	Pass	18
Show user's email in navbar if logged in	User's email shown in navbar after login	Pass	19
Advanced Features (Optional)			
Implement infinite scroll with AG Grid or similar	Infinite scrolling works with AG Grid and fetches data seamlessly	Pass	20
Build chart on person page (IMDB rating ranges)	Chart displays correctly with IMDB rating distribution for a person	Pass	11

Note: The infinite scroll feature was implemented using AG Grid in the trial versions of the app and was not included in the final app due to its performance issues. The latter, in conjunction with the search, and filter mechanism, etc., caused the app to be very slow when users requested some data from it. The performance of the app was so bad that the team decided to prioritize the basic set of features like searching by title and year, and hence the feature of infinite scroll was ironed out in the final build of the application.

Difficulties / Exclusions / unresolved & persistent errors /

One of the biggest difficulties I had in the development process was implementing infinite scrolling with AG Grid. The feature worked perfectly in fetching and displaying data, however, incorporating it into the movie search feature caused some problems. To be specific, when the title search bar and the year filter together with the infinite scroll were used, they, however, showed wrong output. Both of these features used the same method to fetch the data hence, they conflicted with each other. The AG Grid's documentation on infinite scrolling (<https://www.ag-grid.com/react-data-grid/infinite-scrolling/>) was my ground for abandoning the idea of having both the title search and year filter working at the same time. Thus, I decided to remove the infinite scroll from the final app version and ensure that searching by title and year was continuous.

While during the development phase, the infinite scrolling was a success I ignored using it in the final steps. The decision came from the primary purpose of the application, which is enabling users to search movies by entering a title and/or year. Infinite scrolling, though a great idea, could have made things look complicated or the search become slow, so I saw fit to work on the essential functionality only. It was a bug that was not resolved and it was the conflict between infinite scrolling and the search/filter features. As a matter of fact, infinite scroll feature was doing the right thing when it was by itself, but it resulted in poor performance when used alongside the search and filter operations. In spite of the fact that I had fixed the problem by taking out infinite scrolling, I thought that the design of the movie search page could have been better with the presence of such a feature.

If I had more time, I would reconsider the infinite scrolling on the homepage and figure out a way to make the search feature work while introducing it. A better layout would have given the possibility of a combination of browsing in a good flow and effective movie search, which, in turn, would have led to a more satisfying user experience.

User guide

When you first enter the website, you'll be greeted with a welcome message and an overview of the app. You'll see a navigation bar at the top, giving you quick access to the main sections: **Home Page**, **Movies**, and **Login/Register**.

See Appendix Screenshot 1 for the navigation bar.

Click on the **Movies** link in the navigation bar to open the movie browsing page. Here you can search for movies by title using the search bar and filter movies by year using the year dropdown. The movie results are paginated, so only 100 movies are shown per page. Use the pagination controls to move through the pages. On this page, the grid also allows you to sort the movies by clicking on the column headers (Title, Year, IMDB Rating, etc.).

See Appendix Screenshot 2 for the movie list and Screenshot 3 for the search bar.

See Appendix Screenshot 5 for sorting by column.

See Appendix Screenshot 6 for pagination.

To see more information about a movie, click on its title. This will take you to the **Movie Detail Page** where you'll find Movie title, plot, year, runtime, genres, poster, ratings, and cast information. Cast members' names are clickable, leading you to their **Person Detail Page**.

See Appendix Screenshot 7 for the Movie Detail page.

From the **Movie Detail Page**, click on a cast member's name to view their profile. On the **Person Detail Page**, you'll see their name, birth/death year, and a list of movies they've worked on. There is also a chart showing the IMDB rating distribution of the movies they've been involved in.

See Appendix Screenshot 10 and 11 for the Person Detail page.

If you want to access restricted features, such as viewing the Person Detail page, click on **Login** in the navigation bar to log into your account. If you don't have an account, click on **Register** to create one.

See Appendix Screenshot 13 for the registration form and Screenshot 14 for the login form.

Once you're logged in, you'll see your email in the navigation bar. To log out, simply click the **Logout** button.

See Appendix Screenshot 16 for the logout functionality.

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Appendix: Screenshots

1. Screenshot 1 - Navigation Bar:

The navigation bar is visible and links work across all pages.



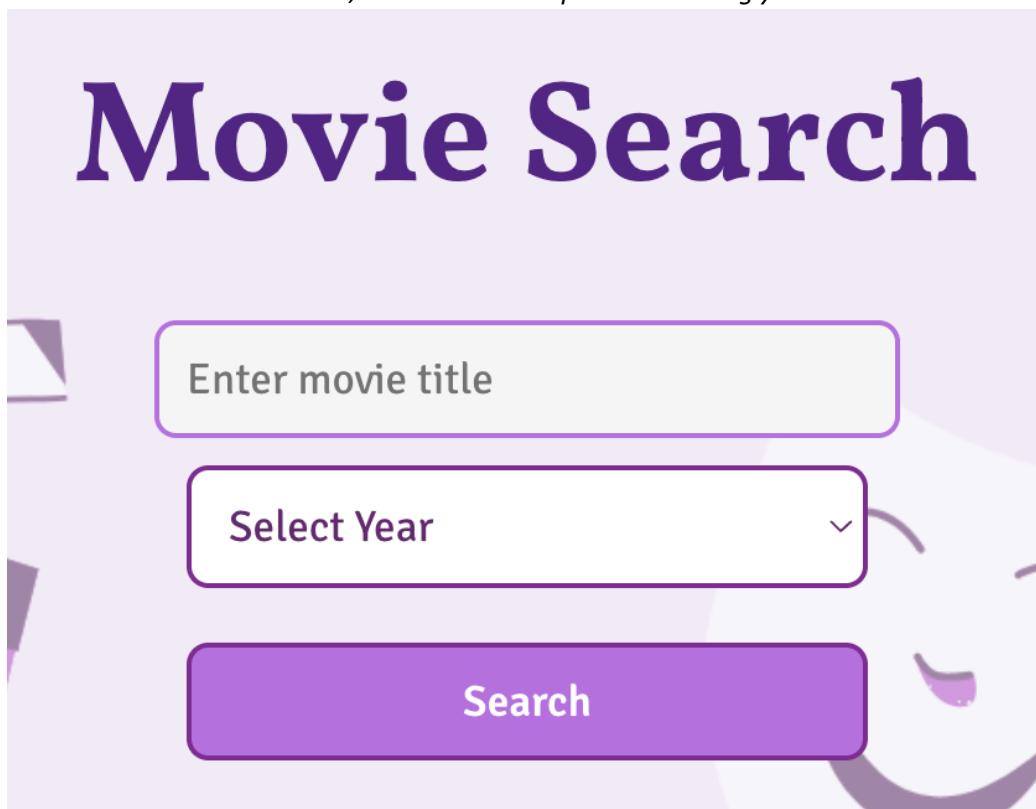
2. Screenshot 2 - Movie Data Display with AG Grid Table:

Movie data is fetched and displayed correctly using AG Grid on the Movies page.

Title	Year	IMDB Rating
Kate & Leopold	2001	6.4
The Other Side of the Wind	2018	6.7
A Tale of Springtime	1990	7.1
Moon 44	1990	5
The Match Factory Girl	1990	7.5
Three Men and a Little Lady	1990	5.4
Boiling Point	1990	6.7
The Adventures of Ford Fairlane	1990	6.4
Agneepath	1990	7.6
Air America	1990	5.8

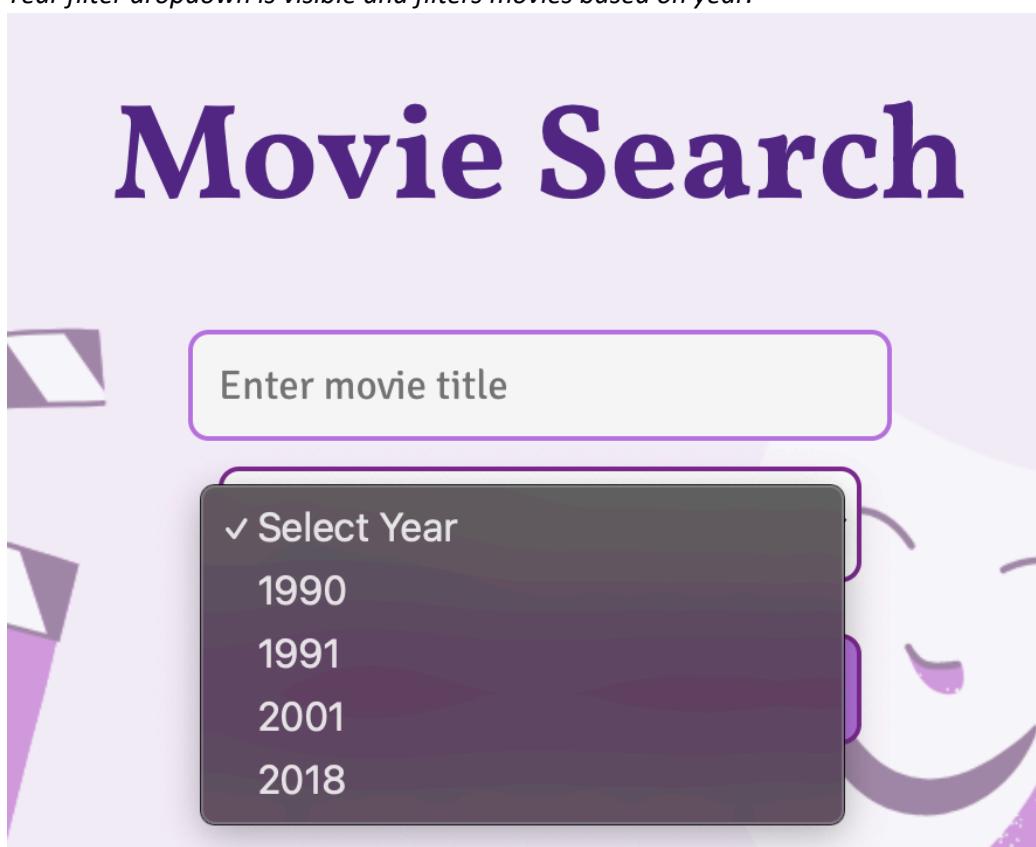
3. Screenshot 3 - Search Functionality:

Users can search movie titles, and the results update accordingly.



4. Screenshot 4 - Year Filter:

Year filter dropdown is visible and filters movies based on year.



5. Screenshot 5 - Sorting by Column:

Users can sort the table by column (e.g., Title, Year, IMDB Rating) in ascending/descending order.

Title	Year ↓	IMDB Rating
The Other Side of the Wind	2018	6.7
Kate & Leopold	2001	6.4
Operation Condor	1991	7.2
Flight of the Intruder	1991	5.8
A Tale of Springtime	1990	7.1
Moon 44	1990	5
The Match Factory Girl	1990	7.5
Three Men and a Little Lady	1990	5.4
Boiling Point	1990	6.7
The Adventures of Ford Fairlane	1990	6.4

6. Screenshot 6 – Pagination:

Pagination works, limiting results to 100 per page with a mention of more movies.

Three Men and a Little Lady	1990	5.4
Boiling Point	1990	6.7
The Adventures of For	1990	6.4
Page Size: 10 ▾	1 to 10 of 100	Page 1 of 10 > >>

7. Screenshot 7 - Movie Link to Detail Page:

Clicking on a movie links to its detail page.

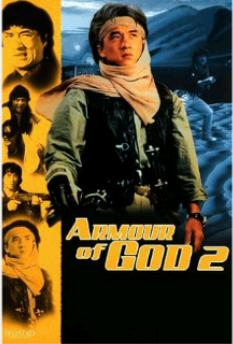
Title	Year ↓	IMDB Rating
The Other Side of the Wind	2018	6.7
Kate & Leopold	2001	6.4
Operation Condor	1991	7.2
Flight of the Intruder	1991	5.8

8. Screenshot 8 - Movie Details Display:

All movie details (title, year, runtime, genres, plot, poster, ratings, and cast) are displayed correctly.

Home Movies Login Register

Operation Condor (1991)



Year: 1991
Runtime: 106 minutes
Genres: Action, Adventure, Comedy
Country: Hong Kong
Box Office: \$10,405,394

☆ Ratings ☆
IMDb: 7.2/10
Rotten Tomatoes: 71/100
Metacritic: Unknown

Jackie is hired to help the UN find Nazi gold hidden in Sahara. He's accompanied from Spain by 2 (later 3) cute women. As there are others wanting the gold, lots of kung fu fighting and comedy follows.

Key People

Role	Name	Character
Cinematographer	Arthur Wong	N/A
Actor	Jackie Chan	Asian Hawk, Condor, Jackie
Actress	Carol 'Do Do' Cheng	Ada
Actress	Eva Cobo	Elsa
Actress	Shôko Ikeda	Momoko
Writer	Edward Tang	N/A
Producer	Leonard Ho	N/A
Composer	Chris Babida	N/A
Composer	Stephen Endelman	N/A
Composer	Paul Rabjohns	N/A

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9. Screenshot 9 - Person Detail Page Linked:

Members are clickable and navigate to the Person Detail page.

Key People		
Role	Name	Character
Cinematographer	Arthur Wong	N/A
Actor	Jackie Chan	Asian Hawk, Condor, Jackie
Actress	Carol 'Do Do' Cheng	Ada
Actress	Eva Cobo	Elsa
Actress	Shôko Ikeda	Momoko
Writer	Edward Tang	N/A

10. Screenshot 10 - Person Details Displayed:

Person details, including name, birth/death year, and list of movies, are displayed.

Home Movies Logout  mike@gmail.com

Eva Cobo

Born: 1967 Death: Unknown

Roles in Movies:

Role	Movie Title	Character(s)	IMDB Rating
Actress	Operation Condor	Elsa	7.2

IMDB Rating Distribution:

Distribution of IMDB Ratings

IMDB Ratings Count

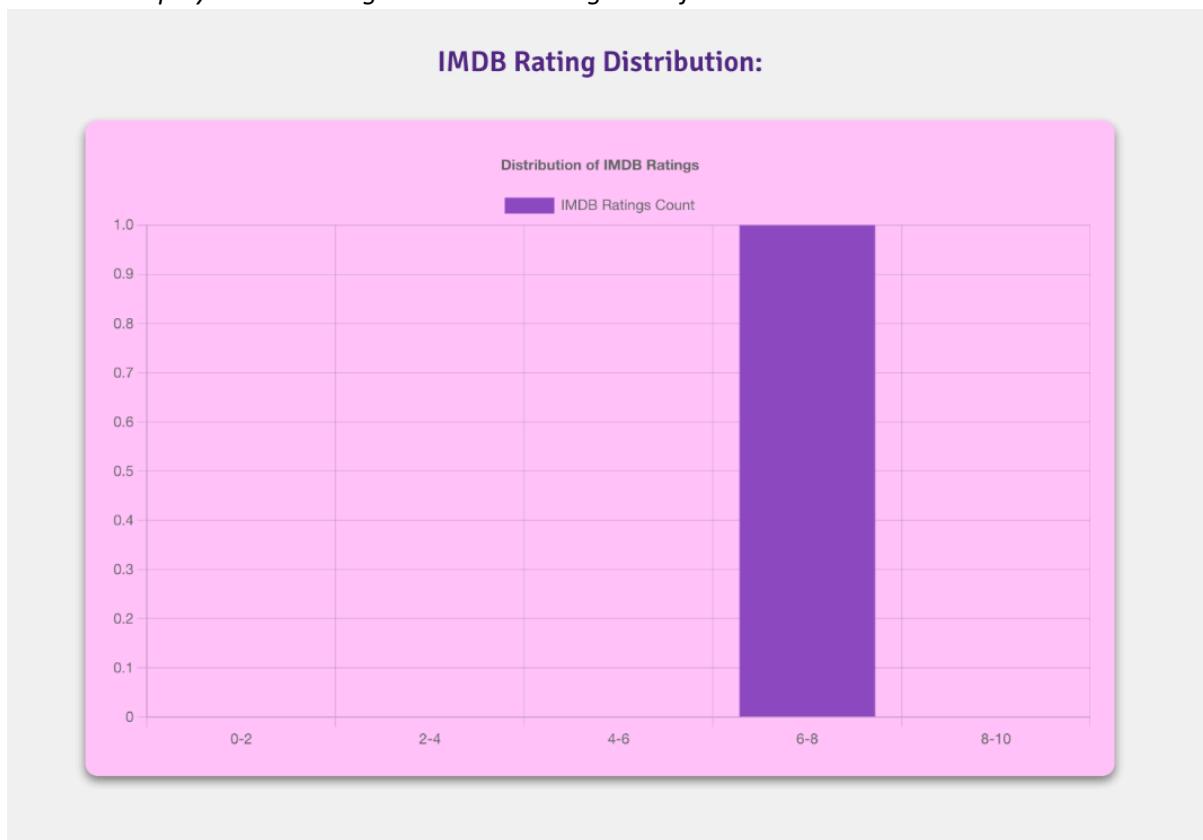


Rating Range	Count
0-2	0
2-4	0
4-6	0
6-8	1.0
8-10	0

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11. Screenshot 11 - Rating Distribution Chart:

The chart displays movie ratings distribution using Chart.js.



12. Screenshot 12 - Login Redirect:

Unauthenticated users are redirected to the login page or shown a login message.

The figure shows a login page with the word "Login" prominently displayed at the top in a large, bold, dark blue font. Below it, there is a message in a smaller dark blue font: "Please login before viewing the details of the person.". There are two input fields: one for "Email" and one for "Password", both outlined in a light blue color. Below these fields is a large, rounded rectangular button with a dark blue background and white text that says "Login". At the bottom of the page, there is a copyright notice: "© 2025 Krittaya Kruapat. All rights reserved.".

13. Screenshot 13 - Register Forms:

The registration forms display and function correctly.

The screenshot shows a web application interface. At the top, there is a navigation bar with four items: "Home", "Movies", "Login", and "Register". The "Register" item is highlighted with a purple background. Below the navigation bar, the word "Register" is displayed in a large, bold, dark blue font. Underneath this, there are three input fields, each with a purple border: "Email", "Password", and "Confirm Password". Below these fields is a purple rectangular button with the word "Register" in white. At the bottom of the page, there is a small line of text: "© 2025 Krittaya Kruapat. All rights reserved."

14. Screenshot 14 - Login Forms:

The login forms display and function correctly.

The screenshot shows a web application interface. At the top, there is a navigation bar with four items: "Home", "Movies", "Login", and "Register". The "Login" item is highlighted with a purple background. Below the navigation bar, the word "Login" is displayed in a large, bold, dark blue font. Underneath this, there are two input fields, each with a purple border: "Email" and "Password". Below these fields is a purple rectangular button with the word "Login" in white. At the bottom of the page, there is a small line of text: "© 2025 Krittaya Kruapat. All rights reserved."

15. Screenshot 15 - Tokens Saved to LocalStorage:

JWT and refresh tokens are saved correctly to localStorage upon login.

The screenshot shows the Movie Search Website with a pink header bar containing 'Home', 'Movies', 'Logout', and a user icon labeled 'mike@gmail.com'. Below the header is a purple ticket stub graphic with 'ADMIT ONE' and 'CINEMA' printed on it. The main content area features a purple background with a film strip graphic on the left and a clapperboard graphic on the right. The text 'Welcome Movie Search Website!' and 'By Krittyaa Kruapat' is centered. A small note at the bottom says 'Thank you for visiting! Enjoy browsing and discovering something new!'. At the bottom right, there is a copyright notice: '© 2025 Krittyaa Kruapat. All rights reserved.' On the right side of the browser window, the developer tools Application tab is open, showing the 'Storage' section. Under 'LocalStorage', it lists three items: 'email' (value: 'mike@gmail.com'), 'refreshToken' (value: 'eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...'), and 'token' (value: 'eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...'). The 'Console' tab shows a log entry: 'No errors'.

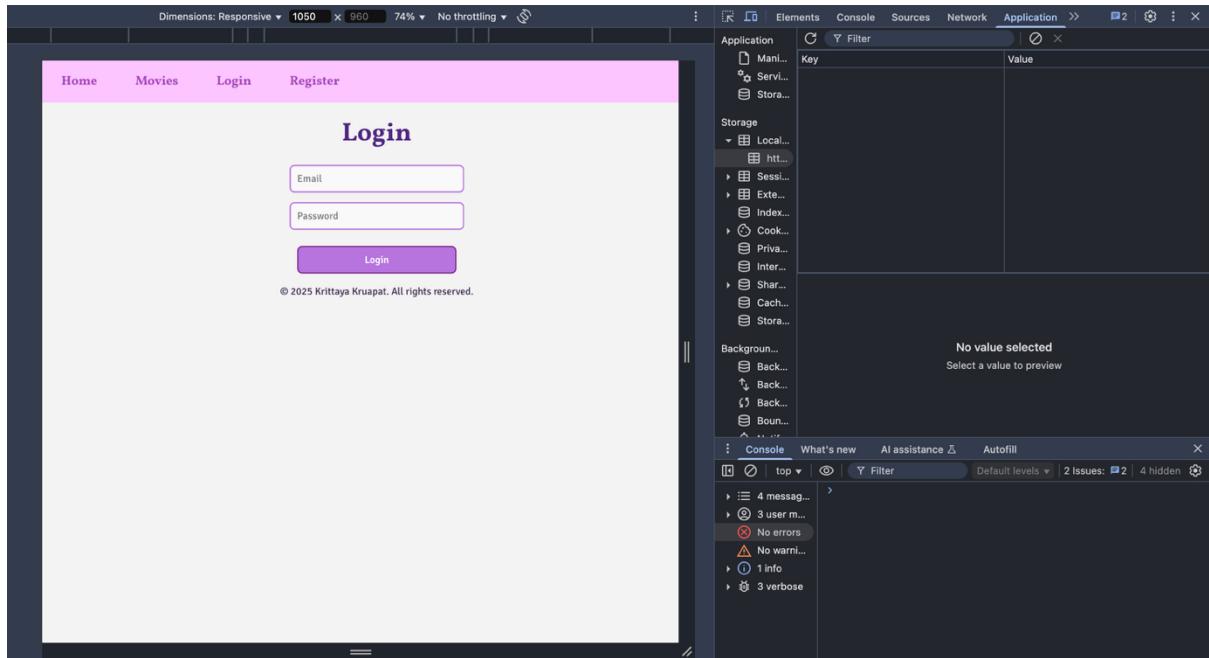
16. Screenshot 16 - Logout Button:

Logout button works.

This screenshot is identical to Screenshot 15, showing the Movie Search Website with the same layout and content. However, the developer tools Application tab on the right shows a different state. The 'LocalStorage' section now only contains the 'email' key with the value 'mike@gmail.com'. The 'refreshToken' and 'token' keys have been removed. The 'Console' tab still shows 'No errors'.

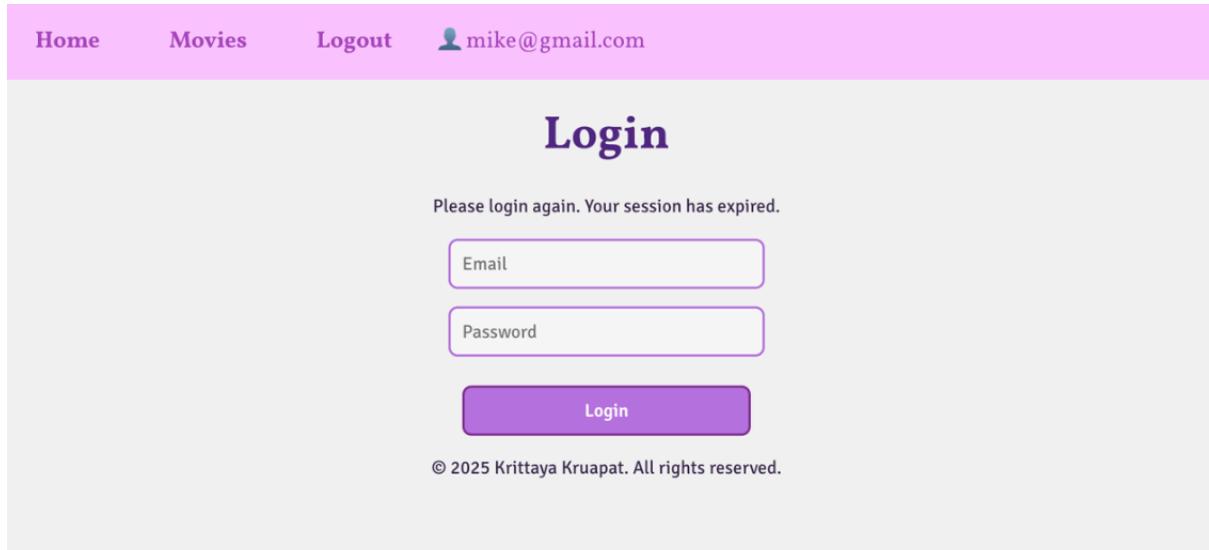
17. Screenshot 17 - Removes tokens from localStorage after Logout:

Logout button works and removes tokens from localStorage, navigate back to Login Page.



18. Screenshot 18 - Token Expiry Handling:

Tokens refresh automatically on expiry using the /user/refresh endpoint.



19. Screenshot 19 - User Email in Navbar:

User's email is shown in the navbar after login.



20. Screenshot 20 - Infinite Scroll – Mock- Up:

Infinite scrolling with AG Grid success in mock-ups, however, has not been implement in the final build.

The screenshot shows a dark-themed web application interface titled "Movie Search". At the top, there is a navigation bar with links for "Home", "Movies", "Login", and "Register". Below the navigation bar is a search form containing a text input field labeled "Enter movie title", a dropdown menu labeled "Select Year", and a "Search" button. The main content area displays a table with the following data:

Title	Year	Rank
Miller's Crossing	1990	
Misery	1990	
Kate & Leopold	2001	
The Other Side o...	2018	
A Tale of Springti...	1990	
Moon 44	1990	
The Match Facto...	1990	
Three Men and a...	1990	