Bachelor of IT (Computer Science)

Assignment 2 - Client-Side React Application

CAB230 - Web Computing

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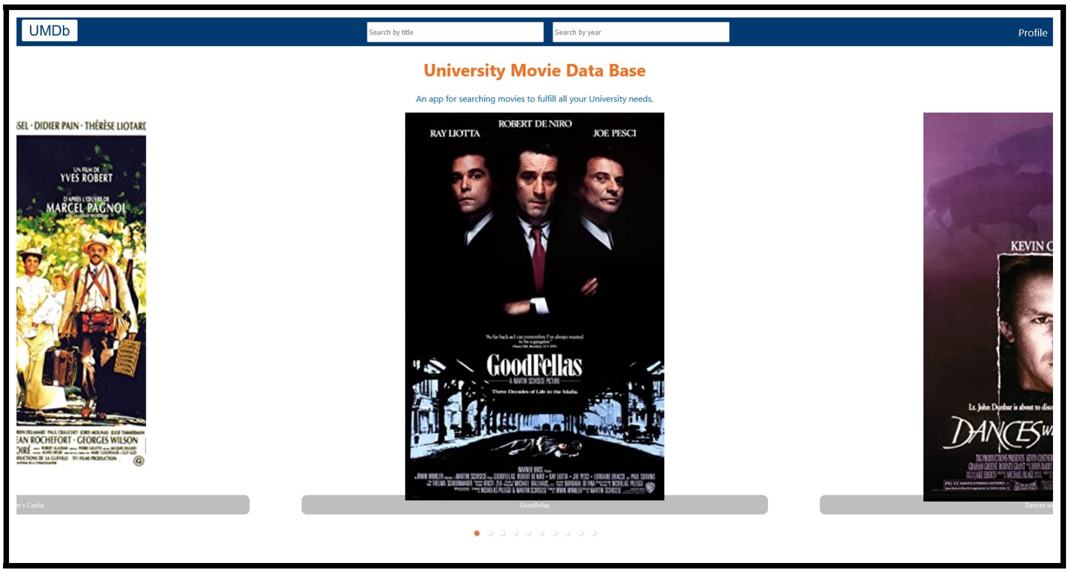
Contents

1 Introduction

1.1 Purpose and Description

The purpose of this react application is to collate and display information regarding movies, and cast members to the user in a responsive and accessible manner. The application should allow the user to search for movies by year or title and display the results in a list. When a movie is selected, the application should display all the details of the movie, including the year the movie was made, the plot of the movie and all the cast members involved with the movie. The application should also allow the user to visit individual pages of cast members where the user can view that cast members details, including their birth year, death year and all the movies they have been involved with.

It achieve this goal and to provide the user with the best experience I can, i have used a number of advanced react features, including the use of react router, IntesectionObserver and react-responsive-carousel. The use of these features has allowed me to create a professional looking application that is both easy to use and responsive for the user.



University Movie Data Base

An app for searching movies to fulfill all your University needs.

SEL · DIDIER PAIN · THÉRÈSE LIOTARD
UN FILM DE
YVES ROBERT
D'APRÈS L'ŒUVRE DE
MARCEL PAGNOL
EAN ROCHEFORT · GEORGES WILSON
ROBERT DE NIRO
RAY LIOTTA
JOE PESCI
GoodFellas
A MARTIN SCORSESE PICTURE
Three Decades of Life in the Mafia.
KEVIN C
Lt. John Dunbar is about to disc
DANCES W
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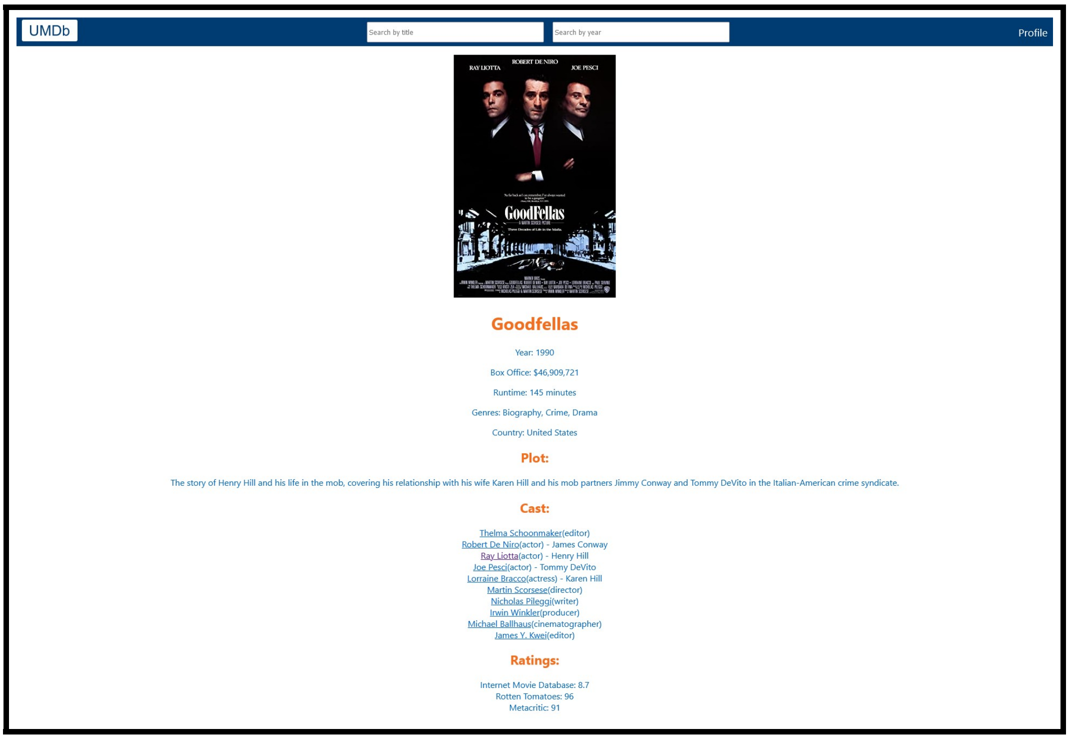
Goodfellas
Dances w



Goodfellas

Year: 1990

Box Office: $46,909,721

Runtime: 145 minutes

Genres: Biography, Crime, Drama

Country: United States

Plot:

The story of Henry Hill and his life in the mob, covering his relationship with his wife Karen Hill and his mob partners Jimmy Conway and Tommy DeVito in the Italian-American crime syndicate.

Cast:

Thelma Schoonmaker(editor)
Robert De Niro(actor) - James Conway
Ray Liotta(actor) - Henry Hill
Joe Pesci(actor) - Tommy DeVito
Lorraine Bracco(actress) - Karen Hill
Martin Scorsese(director)
Nicholas Pileggi(writer)
Irwin Winkler(producer)
Michael Ballhaus(cinematographer)
James Y. Kwei(editor)

Ratings:

Internet Movie Database: 8.7
Rotten Tomatoes: 96
Metacritic: 91

1.2 Completeness and Limitations

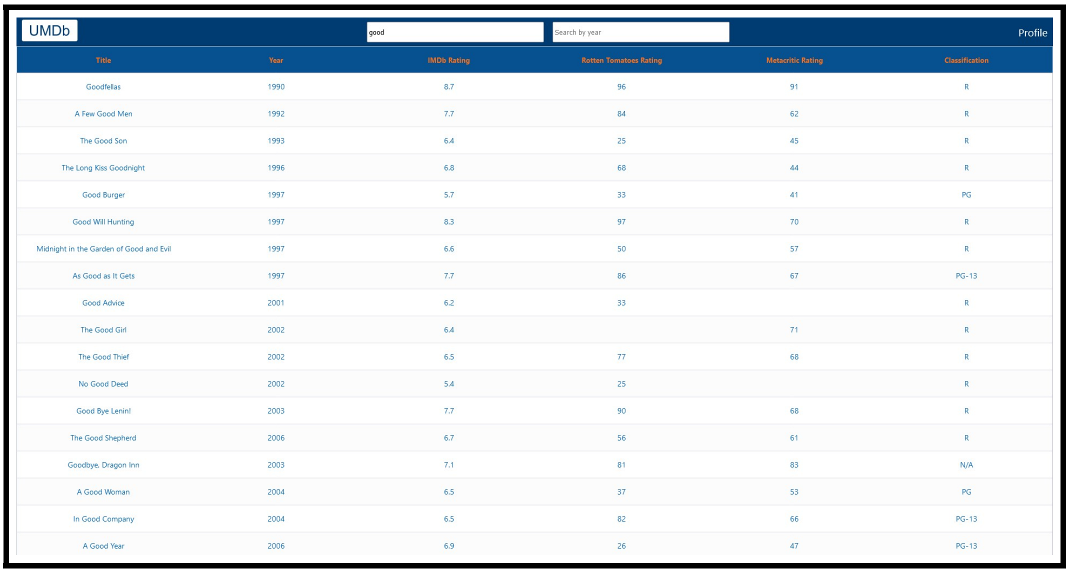
This implementation covers all the requirements of the assignment specification. Navigation is handled using react router, controlled forms are used for all user input, and every 10 minutes the refresh token is used to get a new access token. In addition to this, the application uses ag-grid to display the search results in an infinitly scrolling grid and react-responsive-carousel to display the highest scoring movies of all time on the home (landing) page. On the person page the movies the person is involved in are displayed in a grid with the IMDb Rating.

2 Use of End Points

The functionality for all the API endpoints is handled in API.js. This file contains all the functions that are used to make requests to the API. By containing all the API functionality in one file, it makes it easier to maintain and potentially update the application in the future.

2.1 /movies/search

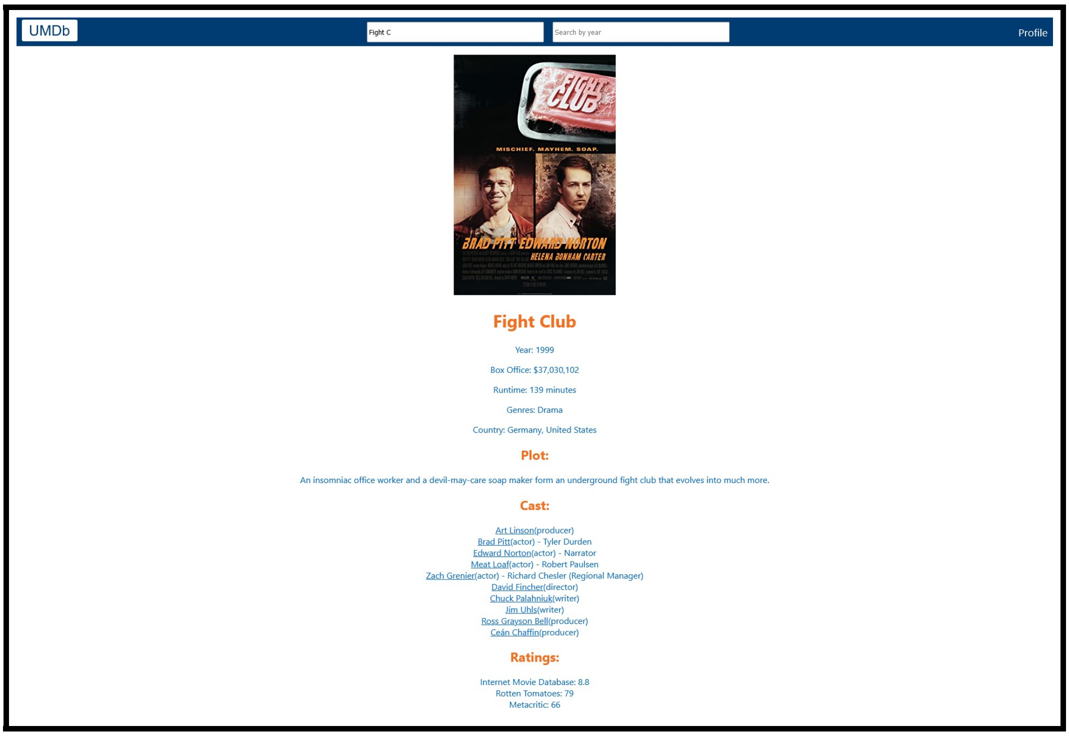
This endpoint is implemented as the getMovies function and is utilised by two search forms at the top of the application. The first search form is for the user to search for movies by title, and the second is for the user to search for movies by year. Both of these forms are controlled forms and can be accessed from any page in the application. Doing it this way removes an extra layer of complexity for the user and allows them to get into the function of the application right from the start of the application.



Title	Year	IMDb Rating	Rotten Tomatoes Rating	Metacritic Rating	Classification
Goodfellas	1990	8.7	96	91	R
A Few Good Men	1992	7.7	84	62	R
The Good Son	1993	6.4	25	45	R
The Long Kiss Goodnight	1996	6.8	68	44	R
Good Burger	1997	5.7	33	41	PG
Good Will Hunting	1997	8.3	97	70	R
Midnight in the Garden of Good and Evil	1997	6.6	50	57	R
As Good as It Gets	1997	7.7	86	67	PG-13
Good Advice	2001	6.2	33		R
The Good Girl	2002	6.4		71	R
The Good Thief	2002	6.5	77	68	R
No Good Deed	2002	5.4	25		R
Good Bye Lenin!	2003	7.7	90	68	R
The Good Shepherd	2006	6.7	56	61	R
Goodbye, Dragon Inn	2003	7.1	81	83	N/A
A Good Woman	2004	6.5	37	53	PG
In Good Company	2004	6.5	82	66	PG-13
A Good Year	2006	6.9	26	47	PG-13

2.2 /movies/data/{imdbID}

This endpoint is implemented as the getMovie function and is utilised by the movie page to get the details of the movie the user has selected. The movie page is accessed by clicking on any of the movies in the search results. The movie page displays all the details of the movie, including the title, year, box office earnings, runtime, genre, country of origin, plot, cast and ratings. each cast member is a clickable link that will lead to that cast members respective page.



Fight Club

Year: 1999

Box Office: $37,030,102

Runtime: 139 minutes

Genres: Drama

Country: Germany, United States

Plot:

An insomniac office worker and a devil-may-care soap maker form an underground fight club that evolves into much more.

Cast:

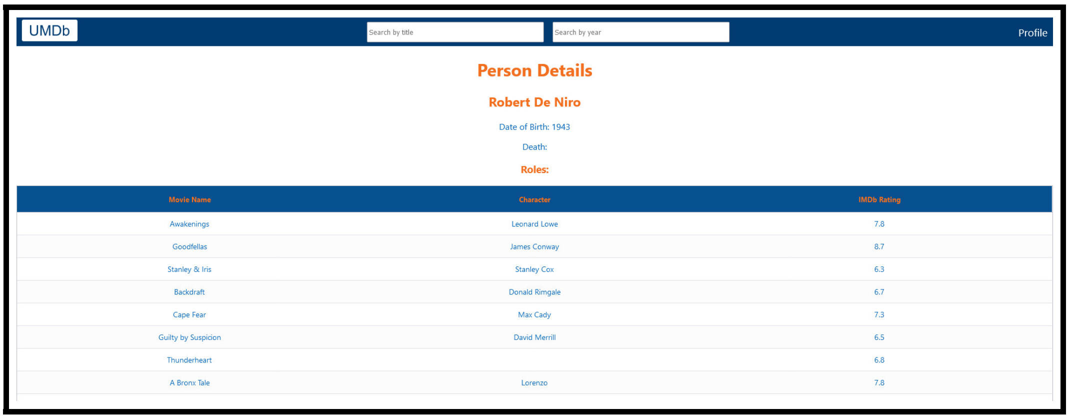
Art Linson(producer)
Brad Pitt(actor) - Tyler Durden
Edward Norton(actor) - Narrator
Meat Loaf(actor) - Robert Paulsen
Zach Grenier(actor) - Richard Chesler (Regional Manager)
David Fincher(director)
Chuck Palahniuk(writer)
Jim Uhls(writer)
Ross Grayson Bell(producer)
Ceán Chaffin(producer)

Ratings:

Internet Movie Database: 8.8
Rotten Tomatoes: 79
Metacritic: 66

2.3 /people/{id}

This endpoint is implemented as the getPerson function and is utilised by the person page to get the details of the person the user has selected. The person page is accessed by clicking on any of the cast members on the movie page. The person page displays all the details of the person exposed by the API, including their name, birth year, death year, all the movies they have been involved with. In a grid the name of each movie, the name of the character the person played and the IMDb Rating is displayed for the users convenience.



Person Details

Robert De Niro

Date of Birth: 1943

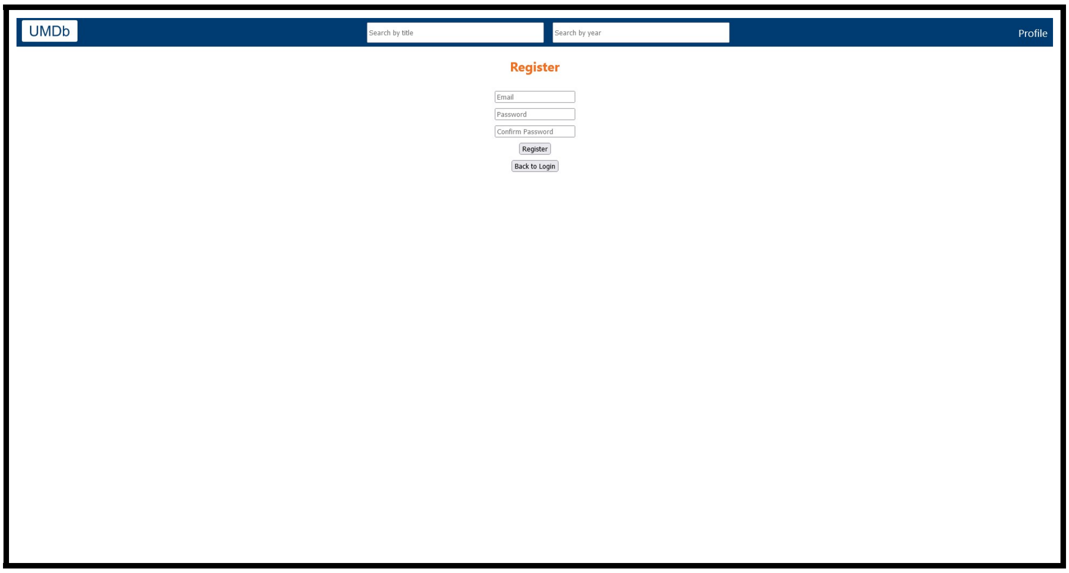
Death:

Roles:

Movie Name	Character	IMDb Rating
Awakenings	Leonard Lowe	7.8
Goodfellas	James Conway	8.7
Stanley & Iris	Stanley Cox	6.3
Backdraft	Donald Rimgale	6.7
Cape Fear	Max Cady	7.3
Guilty by Suspicion	David Merrill	6.5
Thunderheart		6.8
A Bronx Tale	Lorenzo	7.8

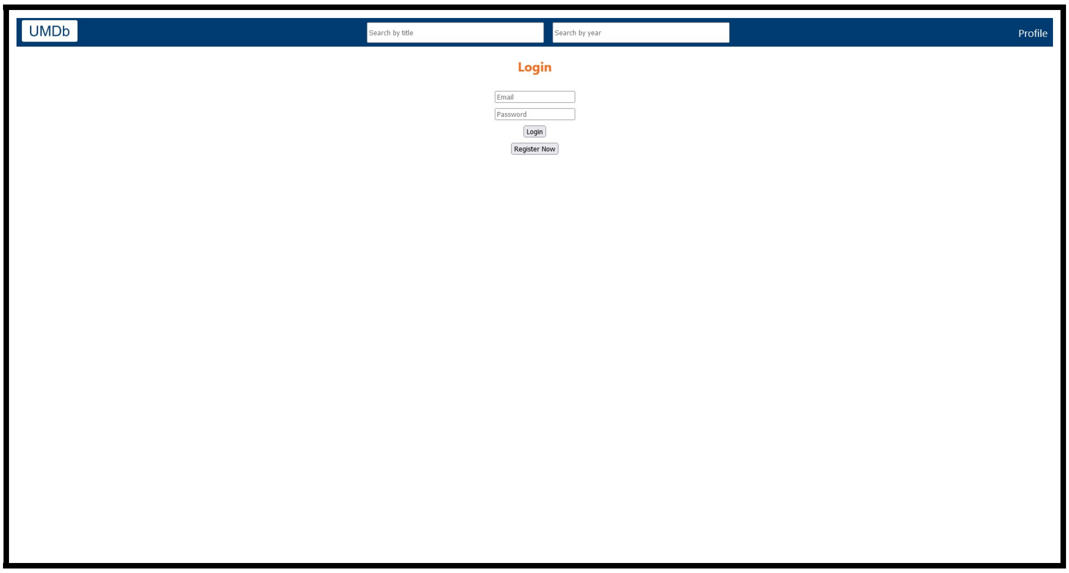
2.4 /user/register

This endpoint is implemented as the postRegister function and is utilised by the profile page to register new users. The profile page is accessed by clicking on the profile button in the navidation bar at the top of the page.



2.5 /user/login

This endpoint is implemented as the postLogin function and is utilised by the profile page to login existing users.



2.6 /user/refresh

This endpoint is implemented as the postRefresh function and is utilised in the back end in App.js to refresh the tokens when the app first starts and every 10 minutes after. This is done to ensure the user does not have to login every 10 minutes.

2.7 /user/logout

This endpoint is implemented as the postLogout function and is utilised by the profile page to logout the user.