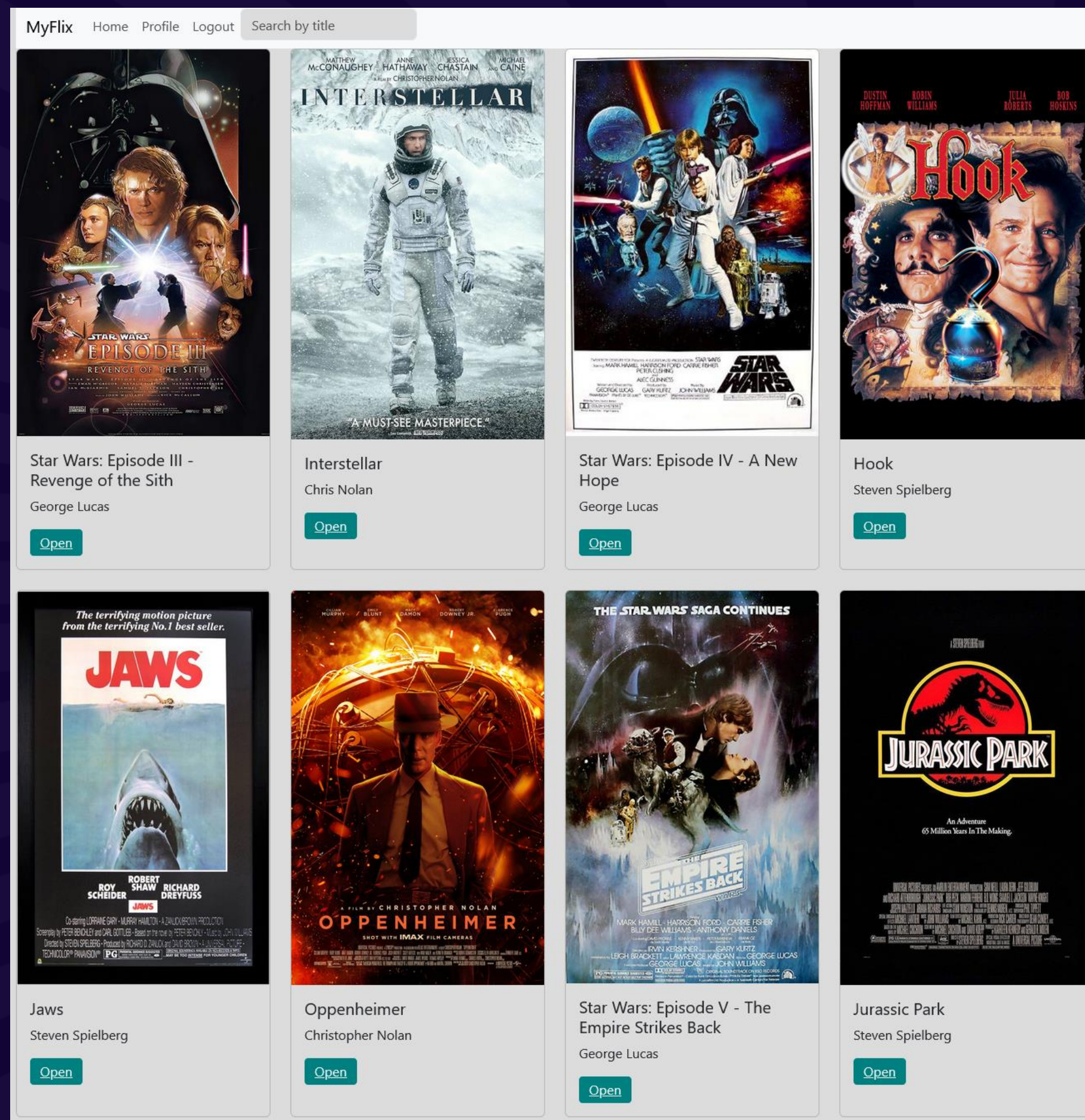


myFlix

A Full-stack Development Case Study
By Josh Reiber





Overview

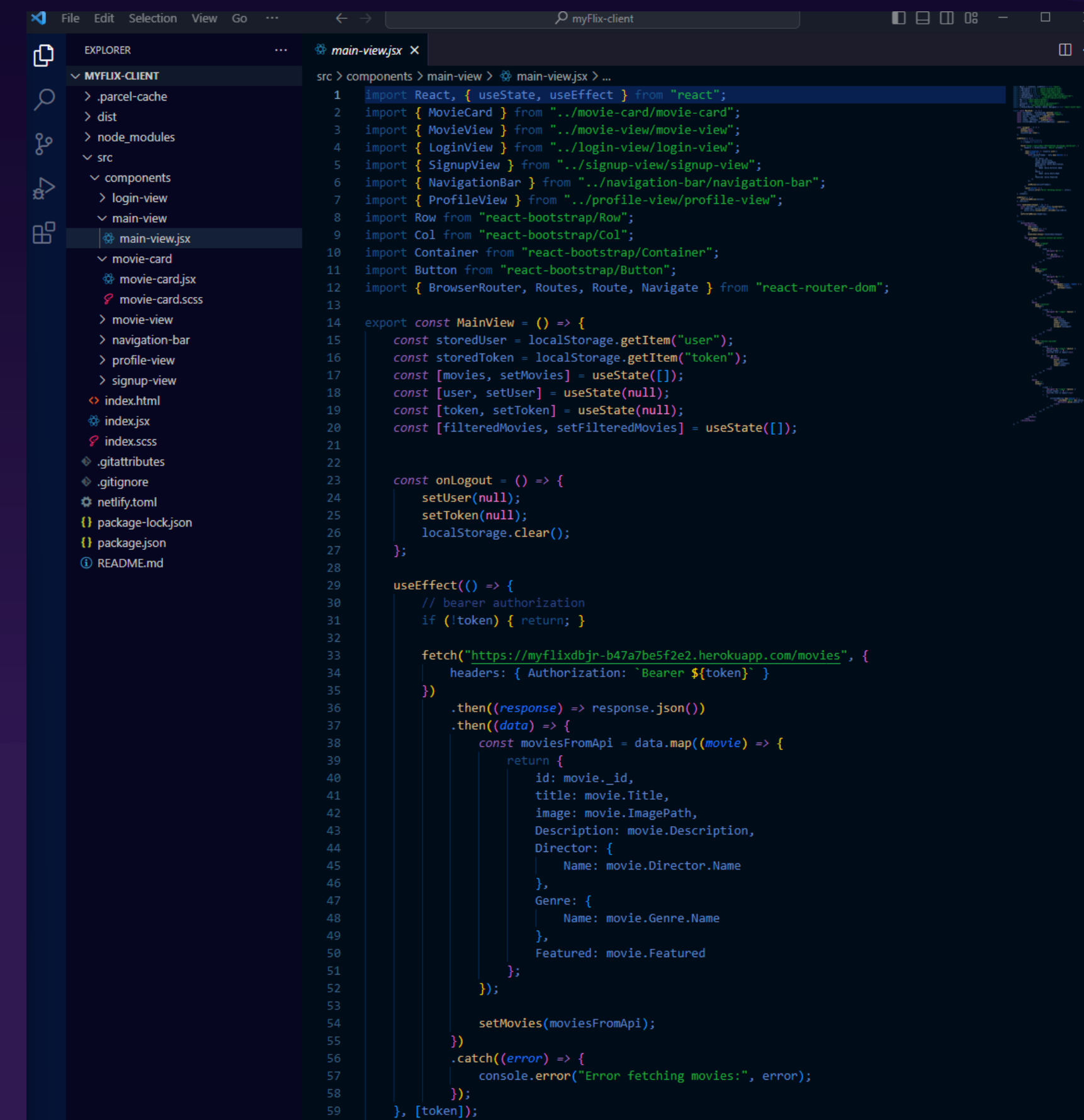
myFlix is a dynamic web application crafted with the MERN stack, designed to offer users an immersive movie experience. Seamlessly blending movies, directors, and genres, myFlix empowers users to create personalized accounts, manage personal information, and curate a collection of beloved movies.

Purpose

I created myFlix during my full-stack web development course at CareerFoundry to showcase my skills in JavaScript. It's a project that demonstrates my ability to build complete web applications from start to finish.

Objective

To create a robust full-stack application to enhance my professional portfolio. I aimed to tackle the challenge of building both the server-side and client-side components of the application entirely from scratch.



The screenshot shows a VS Code editor window with the file explorer on the left and the main-view.jsx file open in the editor. The file explorer shows the project structure with folders like .parcel-cache, dist, node_modules, src, components, login-view, main-view, movie-card, movie-card.jsx, movie-card.scss, movie-view, navigation-bar, profile-view, signup-view, index.html, index.jsx, index.scss, .gitattributes, .gitignore, netlify.toml, package-lock.json, package.json, and README.md. The main-view.jsx file contains the following code:

```
1 import React, { useState, useEffect } from "react";
2 import { MovieCard } from "../movie-card/movie-card";
3 import { MovieView } from "../movie-view/movie-view";
4 import { LoginView } from "../login-view/login-view";
5 import { SignupView } from "../signup-view/signup-view";
6 import { NavigationBar } from "../navigation-bar/navigation-bar";
7 import { ProfileView } from "../profile-view/profile-view";
8 import Row from "react-bootstrap/Row";
9 import Col from "react-bootstrap/Col";
10 import Container from "react-bootstrap/Container";
11 import Button from "react-bootstrap/Button";
12 import { BrowserRouter, Routes, Route, Navigate } from "react-router-dom";
13
14 export const MainView = () => {
15   const storedUser = localStorage.getItem("user");
16   const storedToken = localStorage.getItem("token");
17   const [movies, setMovies] = useState([]);
18   const [user, setUser] = useState(null);
19   const [token, setToken] = useState(null);
20   const [filteredMovies, setFilteredMovies] = useState([]);
21
22   const onLogout = () => {
23     setUser(null);
24     setToken(null);
25     localStorage.clear();
26   };
27
28   useEffect(() => {
29     // bearer authorization
30     if (!token) { return; }
31
32     fetch("https://myflixdbjr-b47a7be5f2e2.herokuapp.com/movies", {
33       headers: { Authorization: `Bearer ${token}` }
34     })
35       .then((response) => response.json())
36       .then((data) => {
37         const moviesFromApi = data.map((movie) => {
38           return {
39             id: movie._id,
40             title: movie.title,
41             image: movie.imagePath,
42             description: movie.description,
43             director: {
44               name: movie.director.name
45             },
46             genre: {
47               name: movie.genre.name
48             },
49             featured: movie.featured
50           };
51         });
52         setMovies(moviesFromApi);
53       })
54       .catch((error) => {
55         console.error("Error fetching movies:", error);
56       });
57   }, [token]);
58 }
```



Duration

myFlix was the biggest project I had undertaken to date, and it was also my first time building both the server and client-side. Developing it was quite challenging, and I encountered several API integration errors, but troubleshooting these helped me improve my debugging skills significantly



Credits

Lead Developer - Josh Reiber(Me)

Tutor- Jubril Akolade

Mentor- Jonatan Caraballo

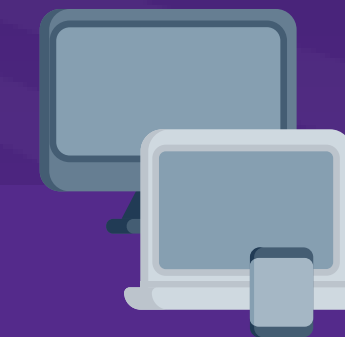


Methodologies-

MERN stack- MongoDB, Express, React, and Node.js

Server-Side

I built a RESTful API with Node.js and Express as part of our MERN stack setup. This API communicates with a MongoDB database, offering straightforward data handling through common HTTP methods like GET and POST. CRUD operations enable smooth data management. Users can easily access movie information in JSON format, streamlining the process for a seamless experience.



Client-Side



When transitioning from backend development to the client side, my focus turned to crafting the user interface that seamlessly interacts with the server-side functionality. Leveraging React, I engineered a dynamic single-page application that adapts to various devices. This involved designing an array of views, each serving a distinct purpose: from the main view showcasing an extensive movie catalog to the detailed single movie view, empowering users to manage their favorite movies effortlessly. Using React's JSX syntax and Bootstrap, I ensured a sleek and intuitive user experience. To streamline the development workflow, I opted for Parcel as the build tool, enhancing efficiency and project organization. Upon completion, I deployed the application seamlessly using Netlify, ensuring smooth and reliable access for users.

Page Views

MyFlix

Login

Signup

Username

user23

Password:

•••••

Email:

example@gmail.com

Birthday:

02 / 13 / 2024

Submit

Log In


MyFlix

Home

Profile


Logout

Search by title




Star Wars: Episode III - Revenge of the Sith
George Lucas

Open



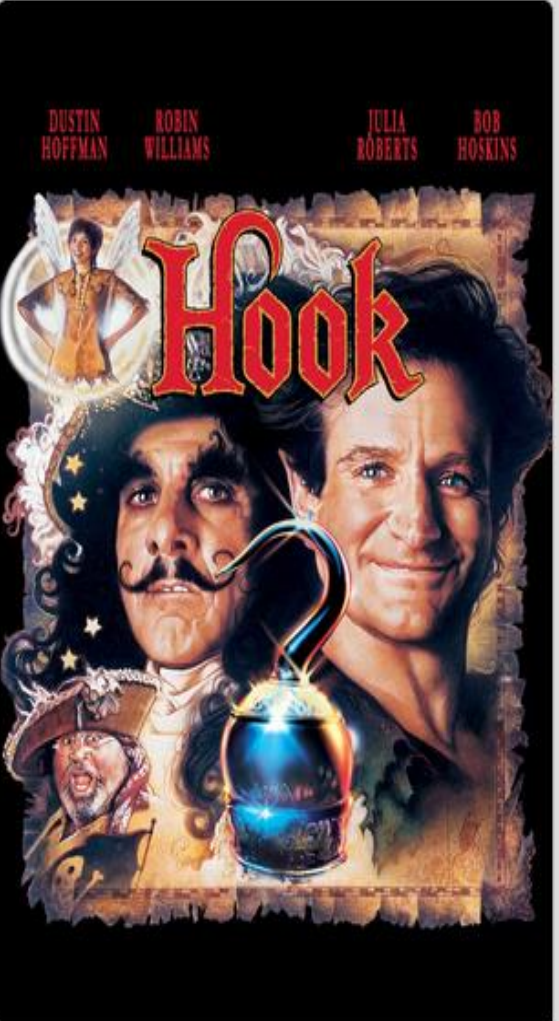
Interstellar
Chris Nolan

Open



Star Wars: Episode IV - A New Hope
George Lucas

Open



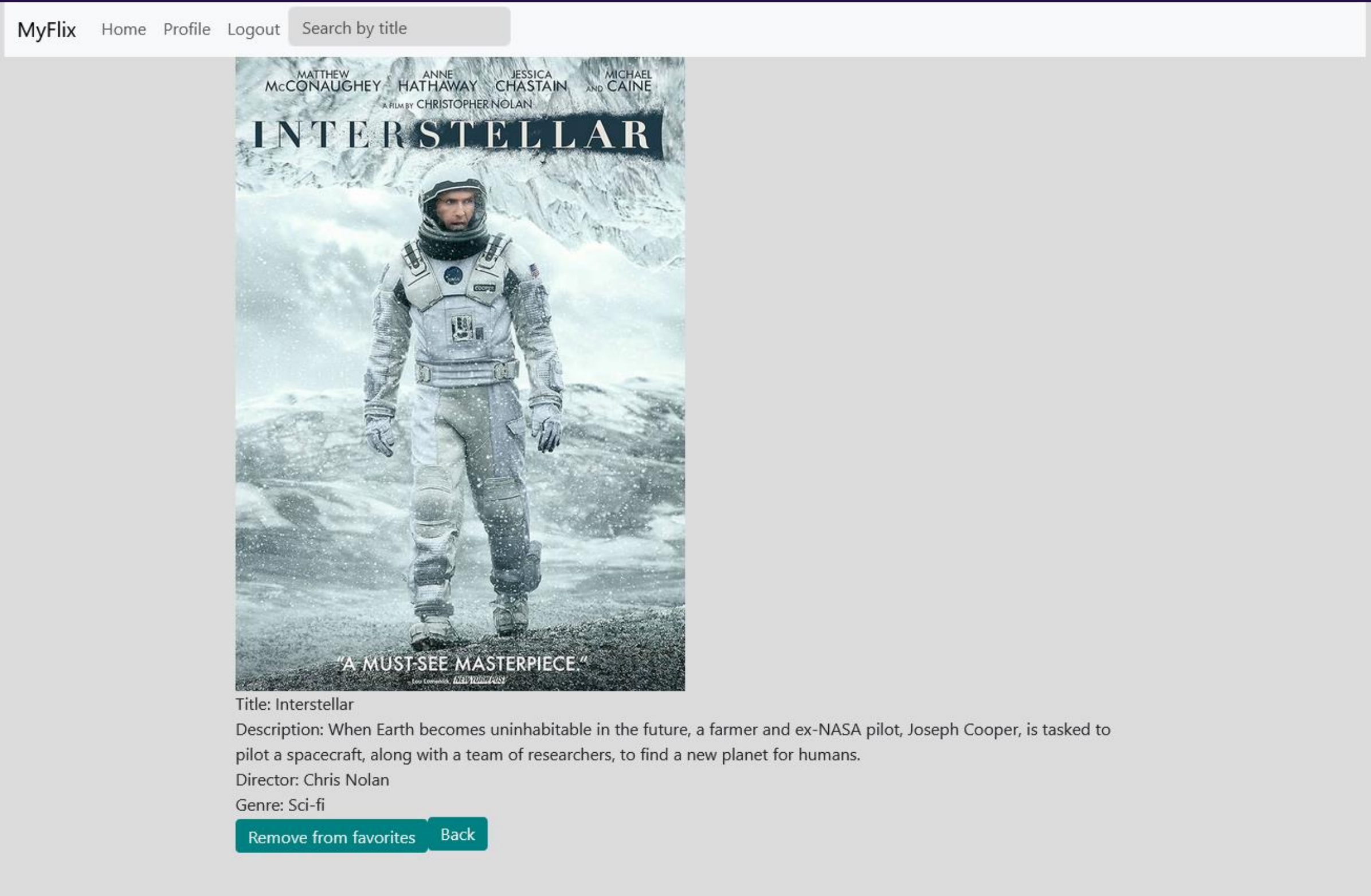
Hook
Steven Spielberg

Open

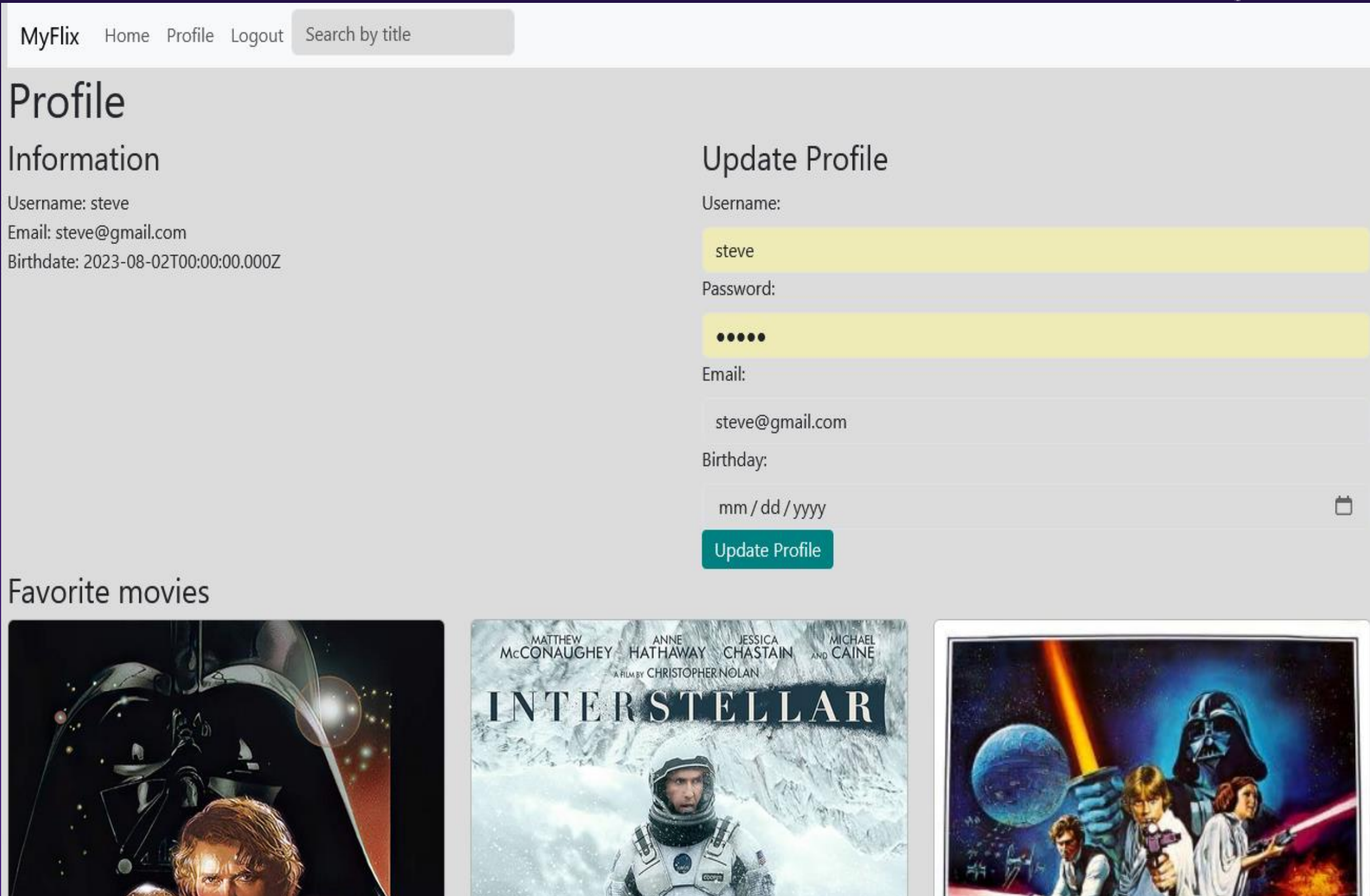
Movie Collection



Page Views (cont.)



Movie Information



Profile Information

Retrospective

Creating this app taught me a lot about the typical structures and technologies used in similar projects. I found organizing the tech stack to be very satisfying. I also realized I love working on the backend, especially setting up databases. Moving forward, I want to improve my skills in designing apps from the start to make them visually appealing. I'm excited to work on more projects using React, which has been a highlight of my coding journey.



Thanks!

Do you have any questions?

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