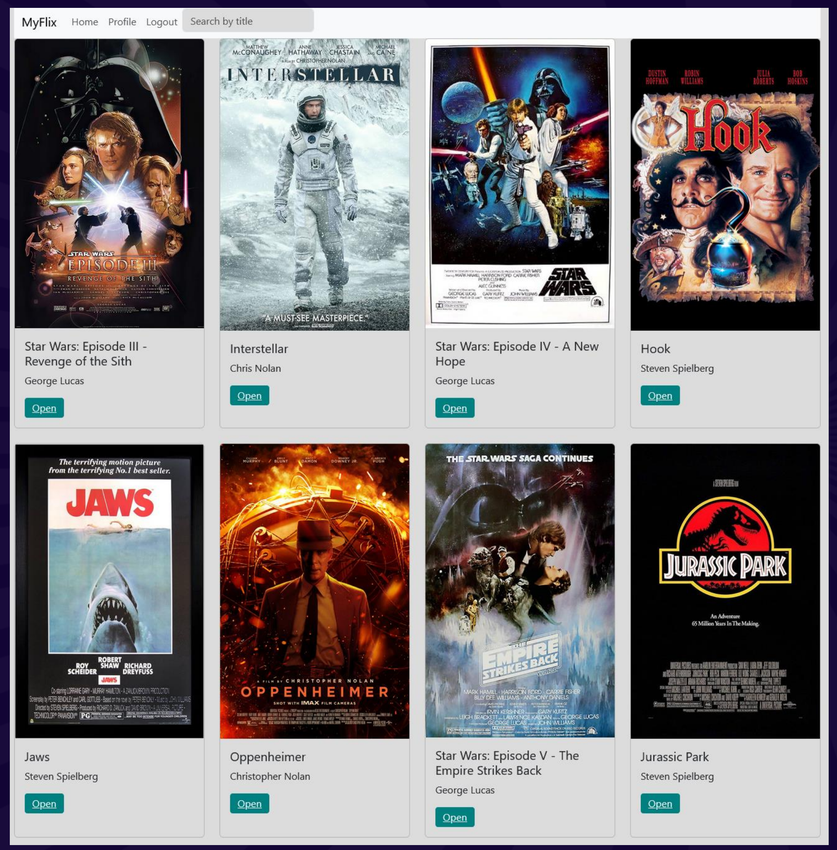
myFlix
A Full-stack Development Case Study
By Josh Reiber



Overview

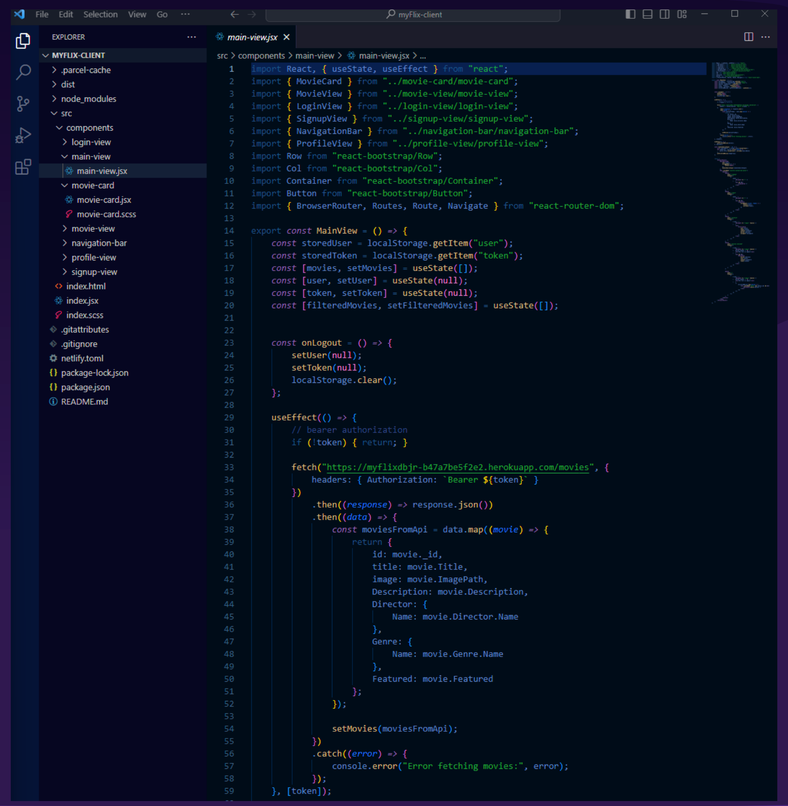
myFlix is a dynamic web application crafted with the MERN stack, designed to offer users an immersive movie experience. Seamlessly blending movies, directors, and genres, myFlix empowers users to create personalized accounts, manage personal information, and curate a collection of beloved movies.

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.



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

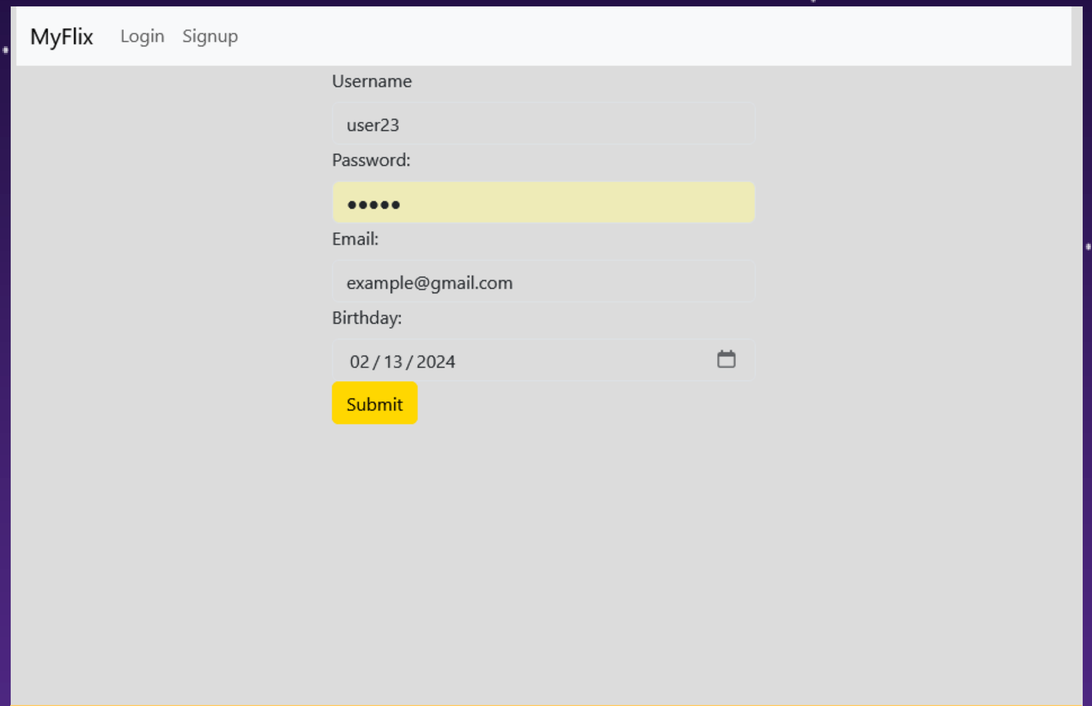
Server-Side

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.

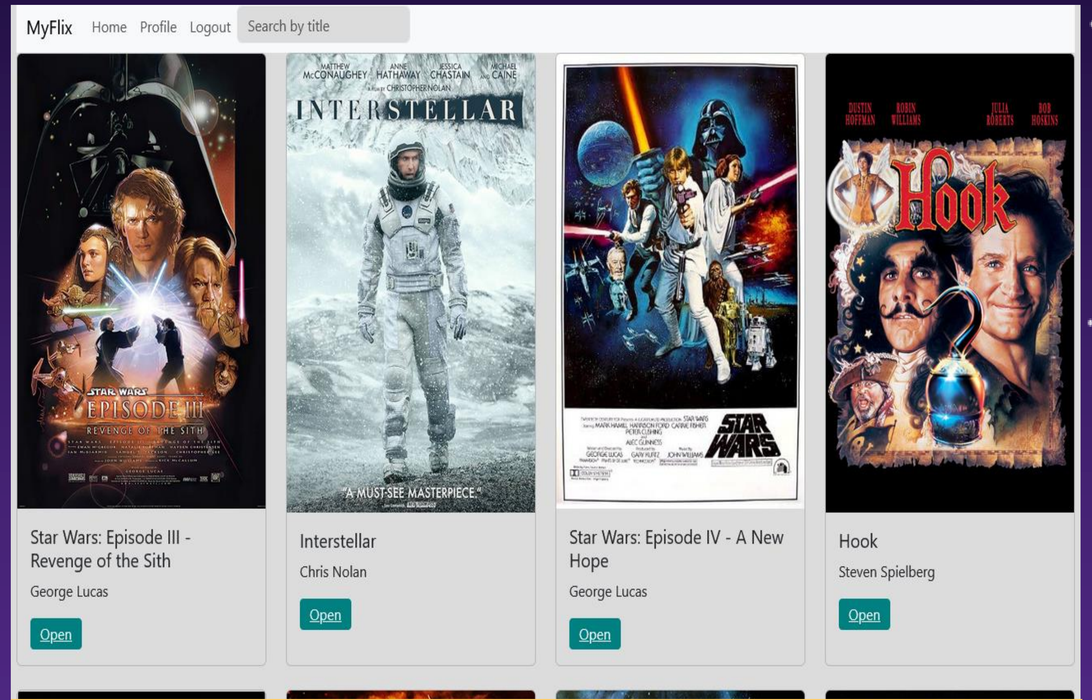
Client-Side

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

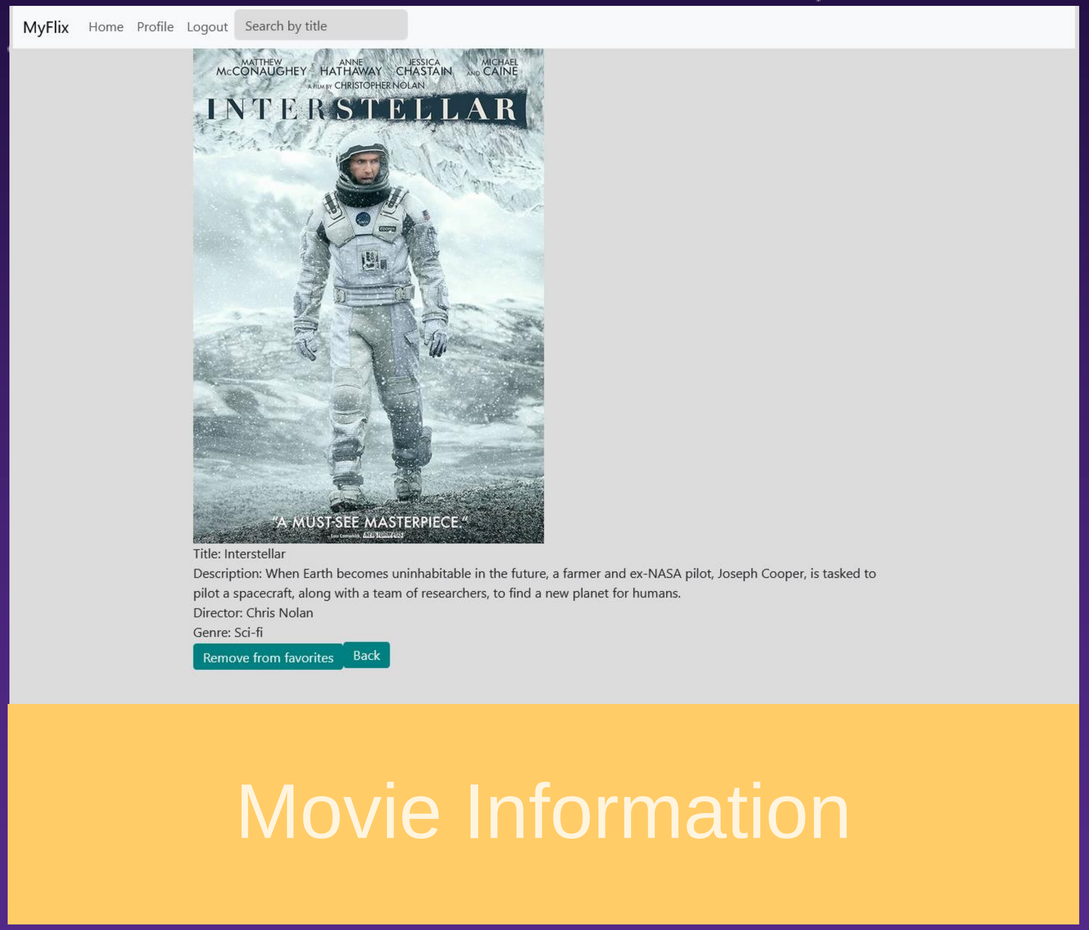


Log In

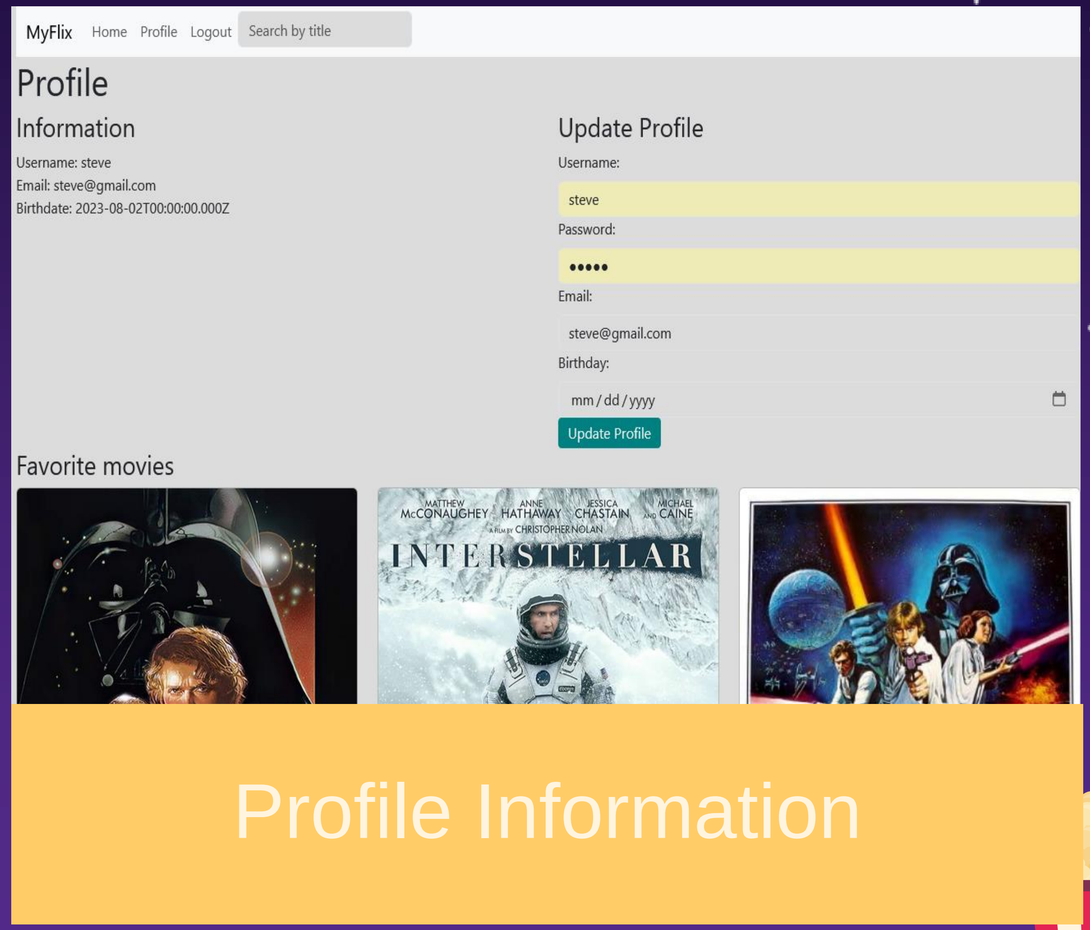


Movie Collection

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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