

myFlix Case Study

Overview

Developed using the MERN stack, myFlix allows users to browse movies, view details on movie genres and directors, and create a custom list of their favorite movies. Users may also update their personal information or deactivate their account.

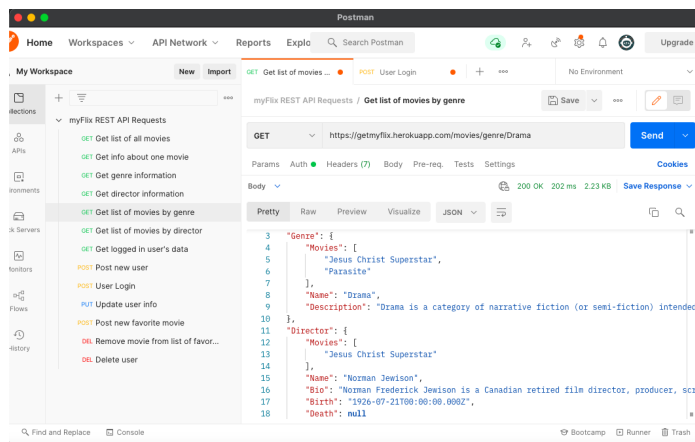
Purpose & Context

The goal of this project was to complete a truly full-stack project, bringing together both the front-end and back-end skills I had been building throughout the course. Specifically, my aim was to build the complete server-side and client-side for the application from scratch.

Objective

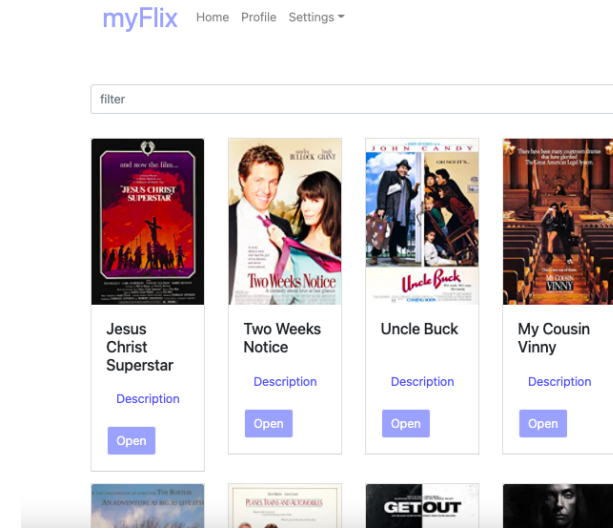
Using the MERN stack, I set out to construct a Netflix-like application that would allow users to browse, learn about, and save movies to a list of their favorites.

Approach



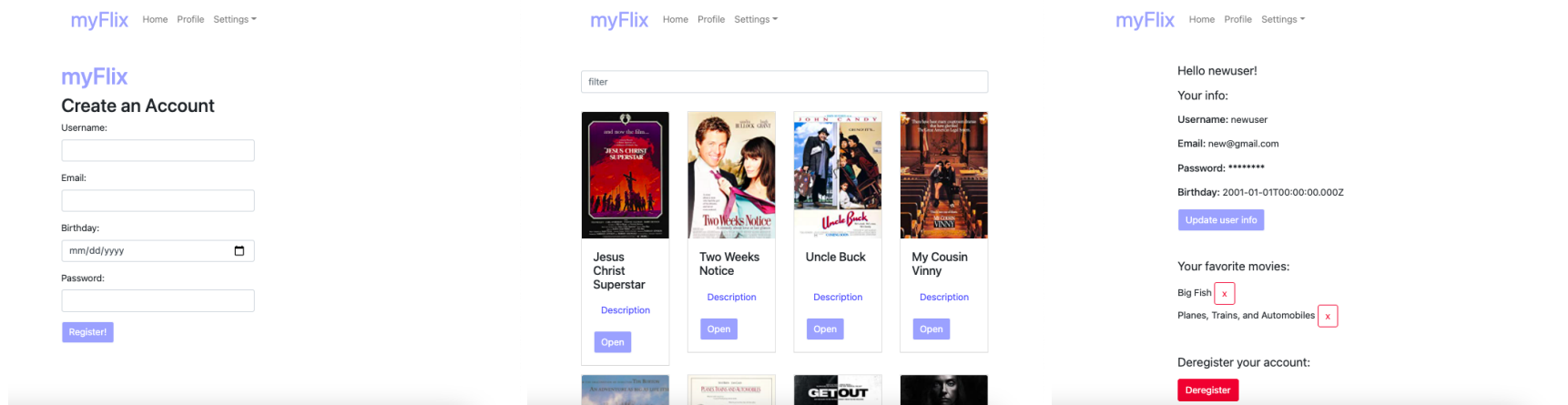
Server-Side

Using Express and Node.js, I built a [REST API](#) containing movie, genre, and director data, which can be accessed by URL endpoints. The movie API is hosted on Heroku and was tested with Postman. The API interacts with a non-relational MongoDB database, and uses CRUD methods to retrieve, store, or manipulate data.



Client-Side

I built the client side using React and React Redux, as React's mobile-friendly, SPA (single page application) format lent itself well to the intended use of this project-- an app where users can easily view movie data and personal data, whether on the go or at home on their desktop. The component-based nature of React allowed for easy creation of the various app views, including a main view where users can browse all movies, a movie view for reading more about a specific movie, genre and director views for additional details respectively, and a user view for managing user data.



Challenges

Being my first comprehensive full-stack endeavor, I faced a number of challenges in developing myFlix. While my data background allowed me to enjoy API-construction and endpoint-testing, and my enthusiasm for creative work made implementing and refining the app's UI a delightful rabbit hole, I faced particular difficulty with wrapping my head around the mechanics of React state-changing. Through reviewing course materials, seeking out tutorials on Medium, StackOverflow, and YouTube, and finally, bringing any remaining unanswered questions to my tutor and mentor, I was able to identify and fill in the gaps in my understanding and implement the desired state changes and user flow.

Duration

This project took me roughly 3 months to complete. The learning curve associated with React, and specifically React hooks and state-changing, added significant time to the development process.

Reflections

This being my first robust full stack project, I am proud of having built this web app from scratch-- from constructing the API to designing and implementing a friendly and aesthetic UI. When interacting with the app, I hope users feel curious, eager to click around, and delighted to read more about movies that interest them.

This project taught me a great deal about JavaScript frameworks, and also about my approach to handling development challenges. I learned how frameworks like React greatly streamline the development process by providing flexible and easily scalable structure to your project. I also discovered areas for growth in how I respond to feeling confused and frustrated. This project allowed me to hone the critically important skills of leveraging online resources and community forums, distilling my confusion into specific questions that I could google or ask my mentor, and knowing when to take a break from coding, as well as how to return to it with a fresh perspective. I am eager to have strengthened each of these skills --both technical and 'soft'-- as I will no doubt draw on them regularly throughout my web development career.

Credits

Role: Lead Developer

Tutor: Andrew Muscara

Mentor: Alexis Gormley