



myFlix

A case study on Full Stack web development

Overview

myFlix is a MERN built web app that provides users with information on movies. Users can register, update their accounts, and create a list of favorite movies.



Purpose

This project allows me to display mastery of full stack web development as a CareerFoundry student.



Objective

The aim of the project was to build a complete server side and client side web application from scratch to include in a professional portfolio



Process

The duration of this project took just under 30 days.

Methodologies

- MERN stack
 - Heroku
 - React Bootstrap
 - Postman
 - Redux

Credits

Lead Developer: James Keefe

Tutor: Andrew Muscara

Mentor: Enrique Gonzalez

Server Side

I created a RESTful API using Node.js and Express which fetches data from a non-relational database (MongoDB). The API is accessible via common endpoints like GET and POST. CRUD methods are also utilized to retrieve and store data in the database. Movie information from the API is displayed in JSON format

Basics

Selecting MongoDB as it is a non-relational database which offers more flexibility

Business Logic

Developed schema models to retain uniformity and used Mongoose for database interaction

Deployment

- Confirmed endpoints with Postman
- Heroku (PaaS)
- MongoDB Atlas (Host)

Security

Basic HTTP with JWT token based authorization. Also contains CORS password hashing and data validation

Client Side

A single-page, responsive application developed with React and React-Redux. The design provides several interface views including a movie view, login view, signup view and a profile view (allowing users to update their accounts)



The Build

React as a means to utilize efficient design patterns adherent to MVC architecture. Parcel was used to complete the build process



The Design

I used React Bootstrap for consistent styling and client side-app routing to add authentication to access views



Final Product

Redux integration to ensure scalability and better manage the app's state

Page Views

MYFLIX Login Signup

Username:

Password:

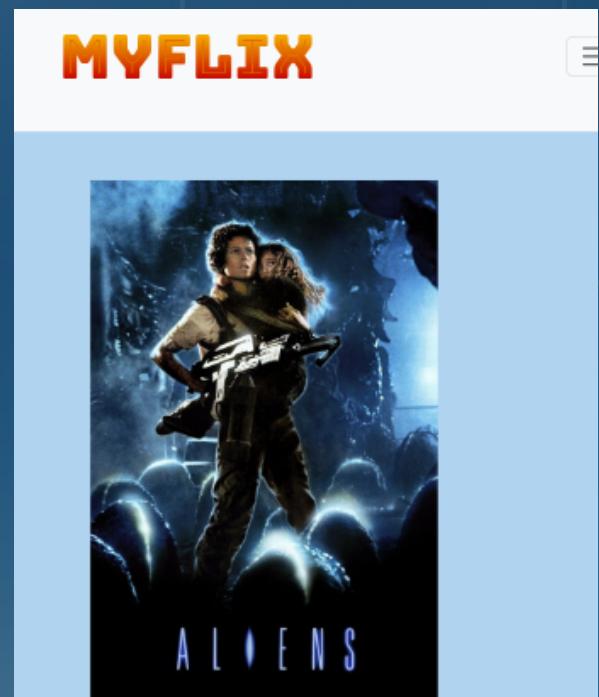
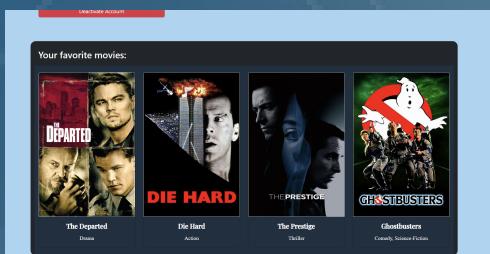
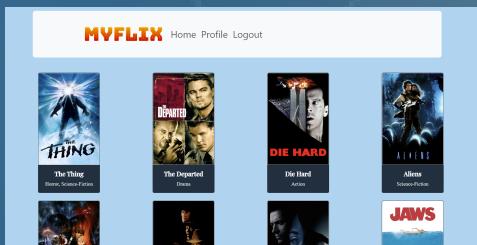
MYFLIX Home Profile Logout

Welcome Back!

Username: newuser5
Email: newuser5@gmail.com
Birthdate: 1977-09-09

Update your profile

Username:
Password:
Email:



Title: Aliens
Genre: Science-Fiction
Director: James Cameron
Description: Ellen Ripley returns to the same planet after fifty years of cryo-sleep to investigate another distress call

Recomended for you:



Retrospective

What Worked



Building the database on the backend was a rewarding process that came with a lot of problem-solving tasks that I enjoyed.

Troubleshooting



I struggled with some version control issues during client-side integration

Updates



Implementing a search bar and further upgrades to UX aesthetics

Final Thoughts



Implementing a search bar and upgrades to UX aesthetics