

myFlix: A Full Stack Case Study

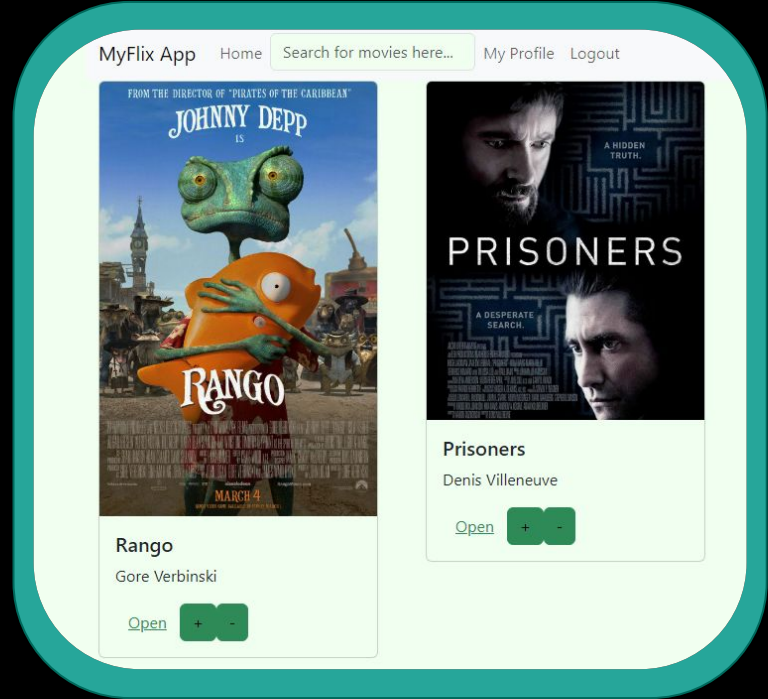
—

Oluyemi Idowu

Overview

The myFlix Application was apart of many applications I had done throughout my coding Bootcamp. This specific application was made to be a source of entertainment for users, as they were allowed to make an account, and look at a number of films and see their data, and even have the ability to add them to a list of their favorite movies.

The objective of this application, was to utilize the API that was previously made, and turn that into a website for users to interact with their favorite movies.



Purpose

The purpose and context of why this application came to be, was all apart of my bootcamp. This project, along with a couple others, gave me some insight to what it is like to fully develop an API and use that API and make something bigger.

README

Movie-API-App

myFlix API

- API Live at <https://rendermovieapi.onrender.com/>

Overview

This is a server side web application (for now) that provides users with information about different movies, directors, and genres. Users will be allowed to register and make an account, update their information, along with adding and removing movies from their Favorite Movie's list.

App Usage

- Node.js
- MongoDB (used mongo shell for db)
- Postman (For CRUD testing)

Objective

As mentioned before, the objective of this application, was to utilize the API that was previously made. Going forward, I knew I needed a framework for the layout, using

Bootstrap helped amazingly. I knew I needed to have a good Client/Login page so making sure that was dealt with first was important. As well as making it easy for the user to register seamlessly was also important. As for the Movie/Main view, I wanted to make sure all of the valid descriptions and information were easily read without having to zoom in or do any extra movements on the page.

```
You, last month | 1 author (You)
1 import React, { useState } from "react";
2 import Button from "react-bootstrap/Button";
3 import Form from "react-bootstrap/Form";
4
5 export const SignupView = () => {
6   const [username, setUsername] = useState("");
7   const [password, setPassword] = useState("");
8   const [email, setEmail] = useState("");
9   const [birthday, setBirthday] = useState("");
10
11   const handleSubmit = (event) => {
12     event.preventDefault();
13
14     const data = {
15       Username: username,
16       Password: password,
17       Email: email,
18       Birthday: birthday,
19     };
20
21     fetch("http://35.94.33.77/users", {
22       method: "POST",
23       body: JSON.stringify(data),
24       headers: {
25         "Content-Type": "application/json",
26       },
27     }).then((response) => {
```

Planning

1.

I first began creating mockups and wireframes to get a basic understanding of what the site will look like. I needed to get a good sense of how the layout would be.



2.

I then made note of all of the resources and libraries/frameworks I needed to make it all work. Such as React, Node, Express, MongoDB, and Bootstrap

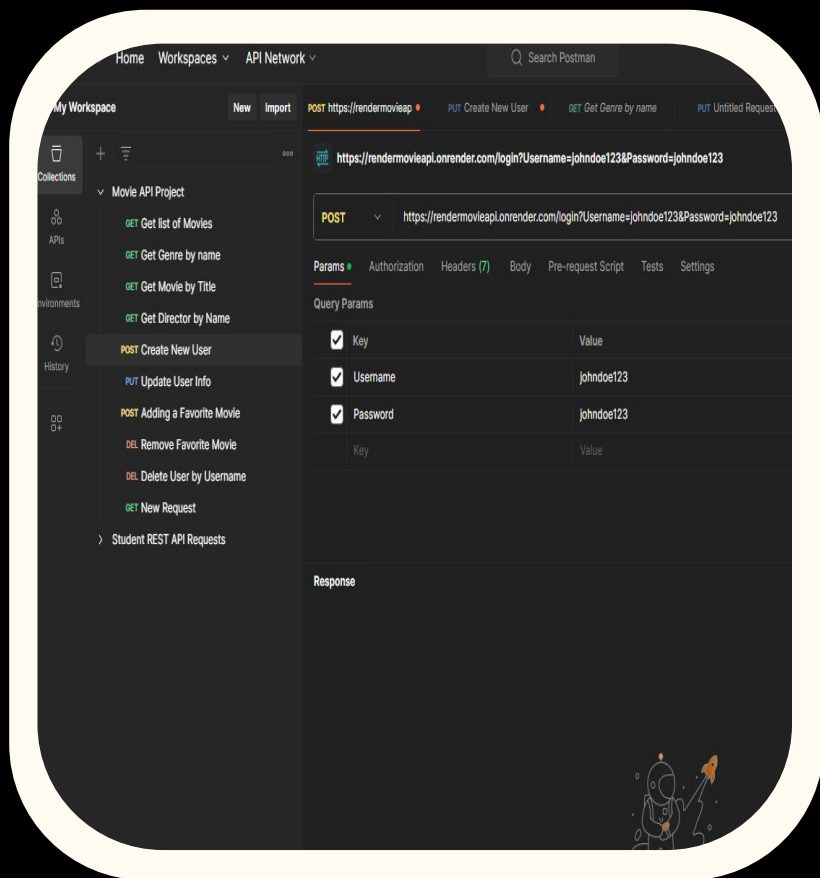
3.

Lastly, before I started to make some big changes, I needed to make sure that the API was fully integrated and connected. Using Mongo very much helped with this step.



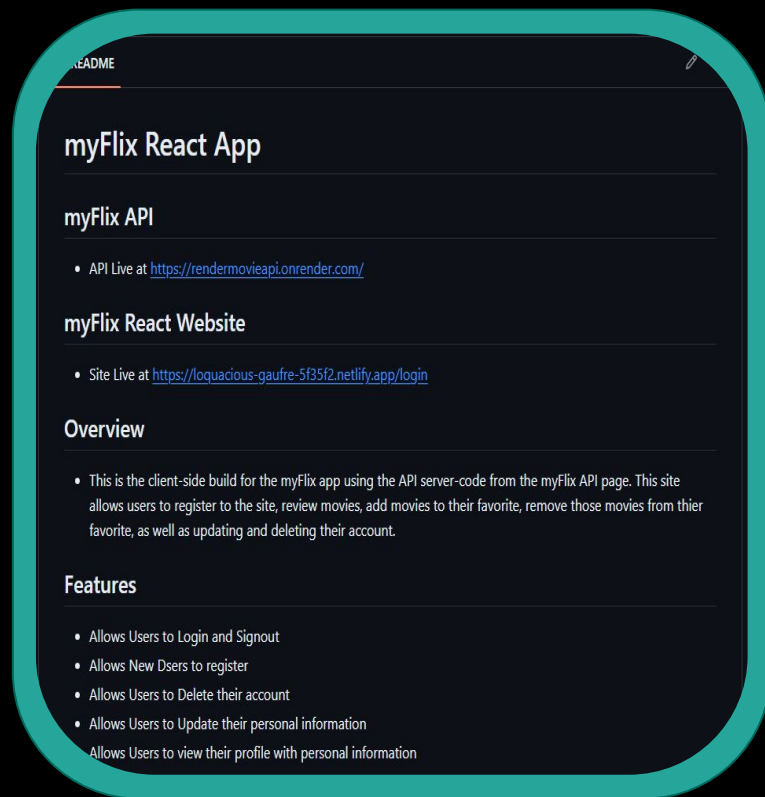
Back-End

When targeting the back-end, I knew I had to get a solid layout first, so building the format for the movies and users was essential. I then had to make sure there was authentication, so using JSONWebToken and Bcrypt, helped greatly. Along with Postman to help test the CRUD functions. After the functions and data was set up, I looked to MongoDB to put a stamp on all of this data to be stored, and be accessible in this project, along with some others that I would do in the future.



Front-End

When looking forward to the Front-End, I knew it had to be “user-oriented”. So a couple of my ideas revolved around making the site accessible. I wanted to have the site look somewhat minimalistic, but at the same time have it look like there was some effort put into it. It can be said that this was one of the first projects I decided to do, so it is a bit lacking in substance. On the other hand. It was made with effort and care for what was important. I will eventually go back sometime in the near future to clean up some colors, lines, and possibly overall aesthetic of the site, but for right now, the basis of the site was fulfilled and completed as expected.



MyFlix App
Login
Signup

Username:
Password:
Submit

MyFlix App
Login
Signup

Username:
Password:
Email:
Birthday: mm/dd/yyyy
Submit

Login / Register Page

My Profile
Update Information
Username:
Password:
Email:
Birthday:
Update Info
Delete Account

Prisoners

Interstellar

1917

Oppenheimer

Profile Page

Title: Interstellar

Description: When Earth becomes uninhabitable in the future, a farmer and ex-

Genre: Drama

Director: Christopher Nolan

Back

Movie Page

The Layout

MyFlix App
Home
Search for movies here...
My Profile
Logout

Rango
Dennis Villeneuve
Open

Prisoners
Dennis Villeneuve
Open

Interstellar
Christopher Nolan
Open

Soul
Dennis Villeneuve
Open

A Silent Voice
Dennis Villeneuve
Open

Oppenheimer
Dennis Villeneuve
Open

Home Page

Deployment

Before this app was deployed, I made sure it ran well in every browser and even tested on mobile. I then decided to deploy this app using netlify. I was able to integrate some Netlify commands within the CLI. With Netlify as well, I am able to see how the site runs and what possible errors occur so I could manage them easily.



Throughout this experience, I've gained proficiency in multiple technical skills like React and Node.js. Even understanding MongoDB has helped me in further courses/exercises.

Lessons Learned

Making the authentication (user creation and login) was definitely a notable challenge I recall. As well as making the site responsive, making the UI/UX look and feel the proper way, was not easy either.

Challenges

Conclusion

After finishing this project, I then replicated the same site, except I used Angular and TypeScript instead of React and JS. Doing this project definitely set me up for success for my Angular and even future projects.

The Future

Overall, creating this site was and has been one of my favorite projects I have ever done. Everything I've learned is applicable in future projects, and I can't wait to come back to this when I have completed many more projects.

Summary