William Yau

Full – Stack Web Developer Case Study

Project Overview

"myFlix" was a web application project built with the tech stack: MERN. It was made to allow users to create an account to log into a database of movies.

Users would have information about each individual movie and be able to save a list of their favourite movies.
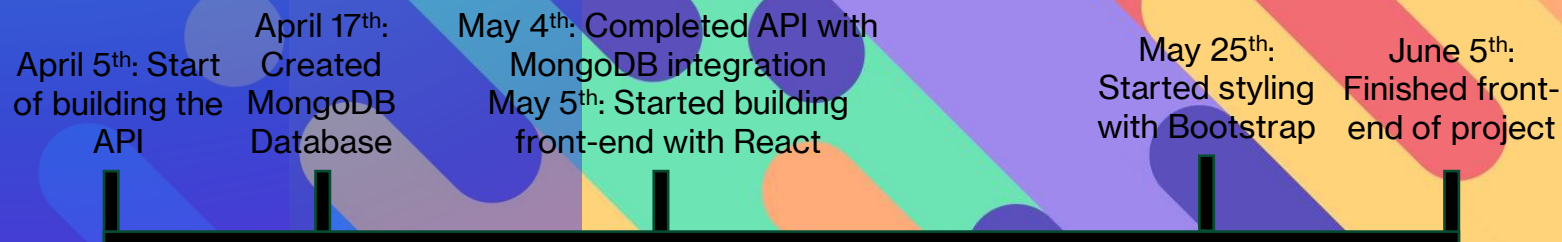
They would be able to update their account information and delete it if necessary.

Goal and Duration

The goal of the project was to create an application with full – stack technology, including the frontend (client – side) and backend (server – side) from the base up.

The time it took for me to complete the entire project was within the span of two months. It was my first time using React and Node.js (Express) so I had to spend more time to learn the new libraries.


```jsx
import { useState, useEffect } from "react";
import { useParams } from "react-router";
import { Link } from "react-router-dom";

//import movie-view styling
import './movie-view.scss';
import Row from 'react-bootstrap/Row';
import Container from 'react-bootstrap/Container';
import Button from "react-bootstrap/Button";
import { ImageUpload } from "../ImageUpload/ImageUpload";

export const MovieView = ({ user, movies, updateUser, token }) => {
    const { movieId } = useParams();
    const movie = movies.find((m) => m.id === movieId);
    const [madeFavourite, setFavourite] = useState(user.FavoriteMovies.includes(movie.id) || false);

    useEffect(() => {
        if (user && user.FavoriteMovies && movie) {
            setFavourite(user.FavoriteMovies.includes(movieId));
        }
    }, [user, movie]);

    const addFavourite = () => {
        fetch(`http://ALBV2-640718364.us-east-1.elb.amazonaws.com/users/${user.Username}/movies/${movieId}`, {
        // fetch(`http://localhost:8080/users/${user.Username}/movies/${movieId}`, {
            method: "POST",
            headers: { Authorization: `Bearer ${token}` }
        })
        .then(response => {
            if (response.ok) {
                return response.json();
            } else {
                alert("Failed");
```

April 5th: Start of building the API

April 17th: Created MongoDB Database

May 4th: Completed API with MongoDB integration
May 5th: Started building front-end with React

May 25th: Started styling with Bootstrap
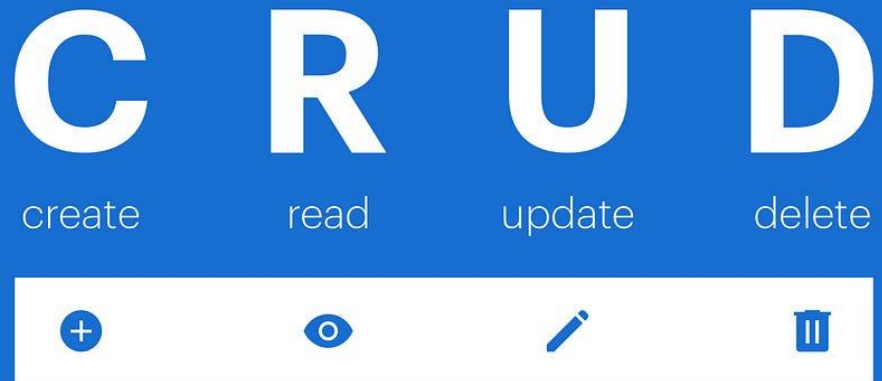
June 5th: Finished front-end of project

Purpose

"myFlix" was a project created as a part of the Full – Stack Web Development Course at CareerFoundry.

The project would allow me to apply the knowledge I have previously learnt in the course and combine my JavaScript knowledge.

I had also used the React version of Bootstrap which I had previously used in another project.
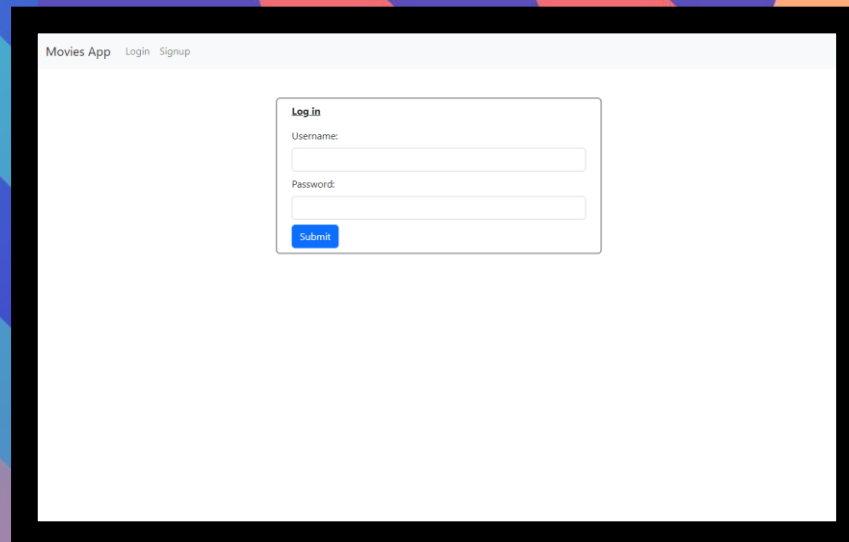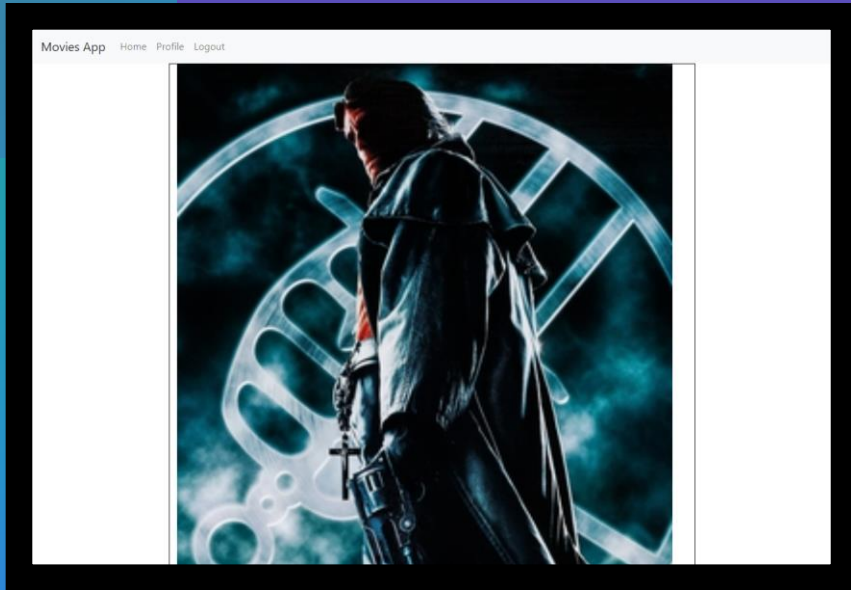
Backend

The backend side of the project was where I created a RESTFUL API with Node.js and Express. The API interacted with my non – relational database, MongoDB. Create, Read, Update and Delete (CRUD) methods were used to interact with the database.

Frontend

The next step of the project was the client – side, where the user interacted. The project was a SPA (Single – Paged Application) built using React with Bootstrap.

Various components were made to build up the interface. There were the login and signup views which are self – explanatory. The movie view was the main page and displayed the movies with a search bar to filter the movies. A profile view was made to provide users to update their account information, view their favourite movies or delete their account.

Final Conclusions

Positives?

The number of skills that I learnt in such a short amount of time is something I'm proud of. I enjoyed seeing the project come together piece by piece, because I could visually see the progress.

Negatives?

I do feel like some of my learning was rushed in some sense because I do not remember everything in detail. The skills that I learnt will need refinement and practice and I will have to revisit some topics.

What could be done next time?

I would like to polish the project a bit more and add new features such as incorporating some sort of filter that gave every movie in a singular genre.

Final thoughts

I am surprised that I could learn so many skills in such a short amount of time. There definitely could have been better approaches looking back at the project but for a first-time experience, I believe that I did a decent job at creating a movie application.