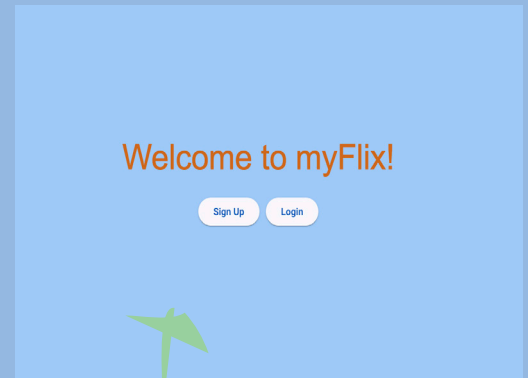# Case Study for Full-Stack Immersion Project

Overview

MyFlix is a client-side application that allows users to view a list of movies, they can log in to access detailed information about each movie, including, genre, director and description. They can also curate a list of favourite movies, update their profile and deregister.

Purpose & Context

myFlix was a personal project I built as part of my web development course at CareerFoundry to demonstrate my new skills as a full-stack developer.

Welcome to myFlix!

Sign Up   Login

the landing page, user can sign in or sign up!

Objective

The aim of the project was to create a full-stack project to add to my professional portfolio. The problems I wanted to solve was to build this client and server side application from the start, including the database and the framework, learning and incoperating new challenges as a new developer.
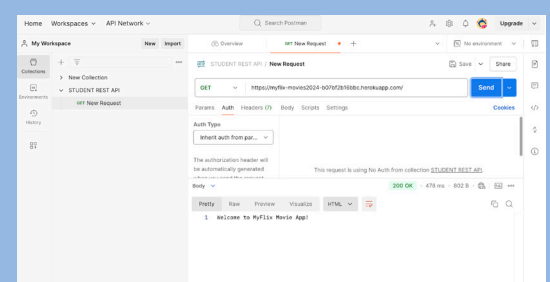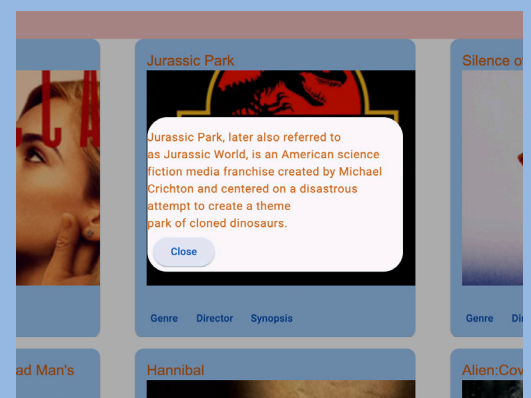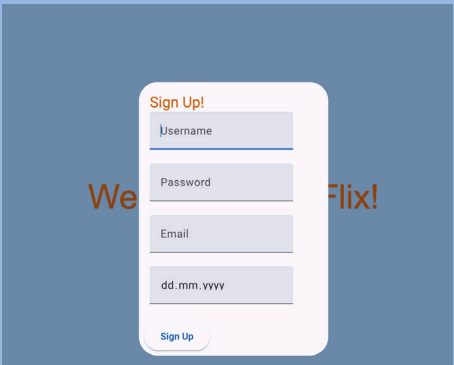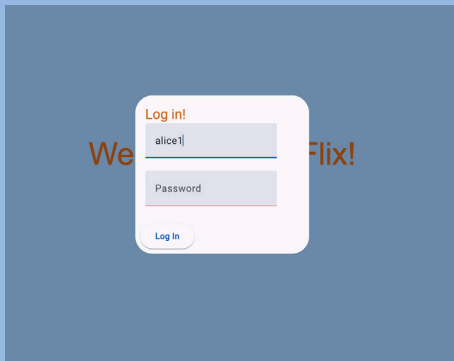

Approach

Server-side

I created a REST API usning Node.js & Express that interacts with a MongoDB (non-relational database). The API can be accessed via HTTP methods GET POST. To retrive data from and store data in the database , CRUD methods are used and the API provides movie information in JSON format.

To test the API endpoints, I used Postman, including user authentication and JWT authentication.

Log in!

alice1

Password

Log In

We...Flix!

Sign Up!

Username

Password

Email
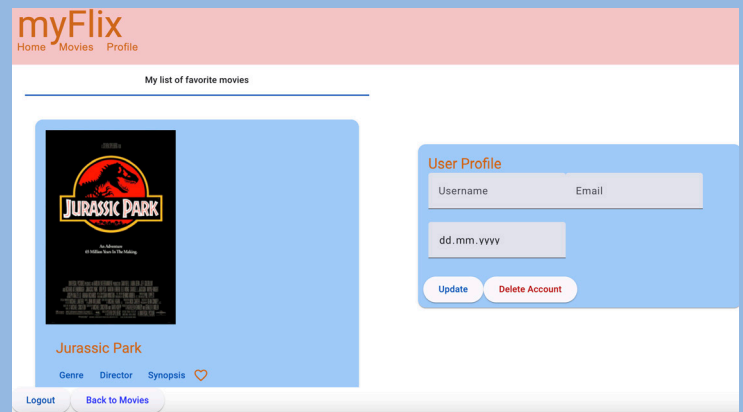
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Sign Up

We...Flix!

Client-side
After completing the API, I started to build the interface users would interact with, submitting requests to, and from, the server-side. This applicaton It is a single-page, responsive application, developed with Angular.
With several interface views like: a welcome page, a movie page, a profile page, a login view and a registration view. It also allows users to add a movie to their list of favorites in their profile page.Users can also find details of the director, the genre and details of each movie.

myFlix

Home   Movies   Profile

My list of favorite movies

JURASSIC PARK

Jurassic Park

Genre   Director   Synopsis   ♡

Logout   Back to Movies

User Profile

Username   Email

dd.mm.yyyy

Update   Delete Account

Challenges
I found this project the most enjoyable on this course but I also found it hard.
Learning Typescript after just getting to terms with Javascript was one of the challenges, but also learning how to spot the mistakes in the code and troubleshoot the backend was difficult. I really enjoyed building the API and working with a database, also using the terminal I found fun!
Angular as well as React are complex front-end frameworks that were hard to understand, especially all the methodology. But I became confident with practice and the help of my tutor and the internet to guide me, as I researched certain issues.
I found also using the devtools and the console while testing the app made allowed me to understand how mistakes occur and how to spot them at the end.

Duration
The development of the client-side took me longer than all the other projects on the course at CareerFoundry. This was due to the fact I needed to spend longer on troubleshooting and testing the app, it was also because I needed to do extra research on how to use Angular and Typescript.

Credits
Role: Lead Developer
Tutor: Emanuel Okello
Mentor: Nizar Triki