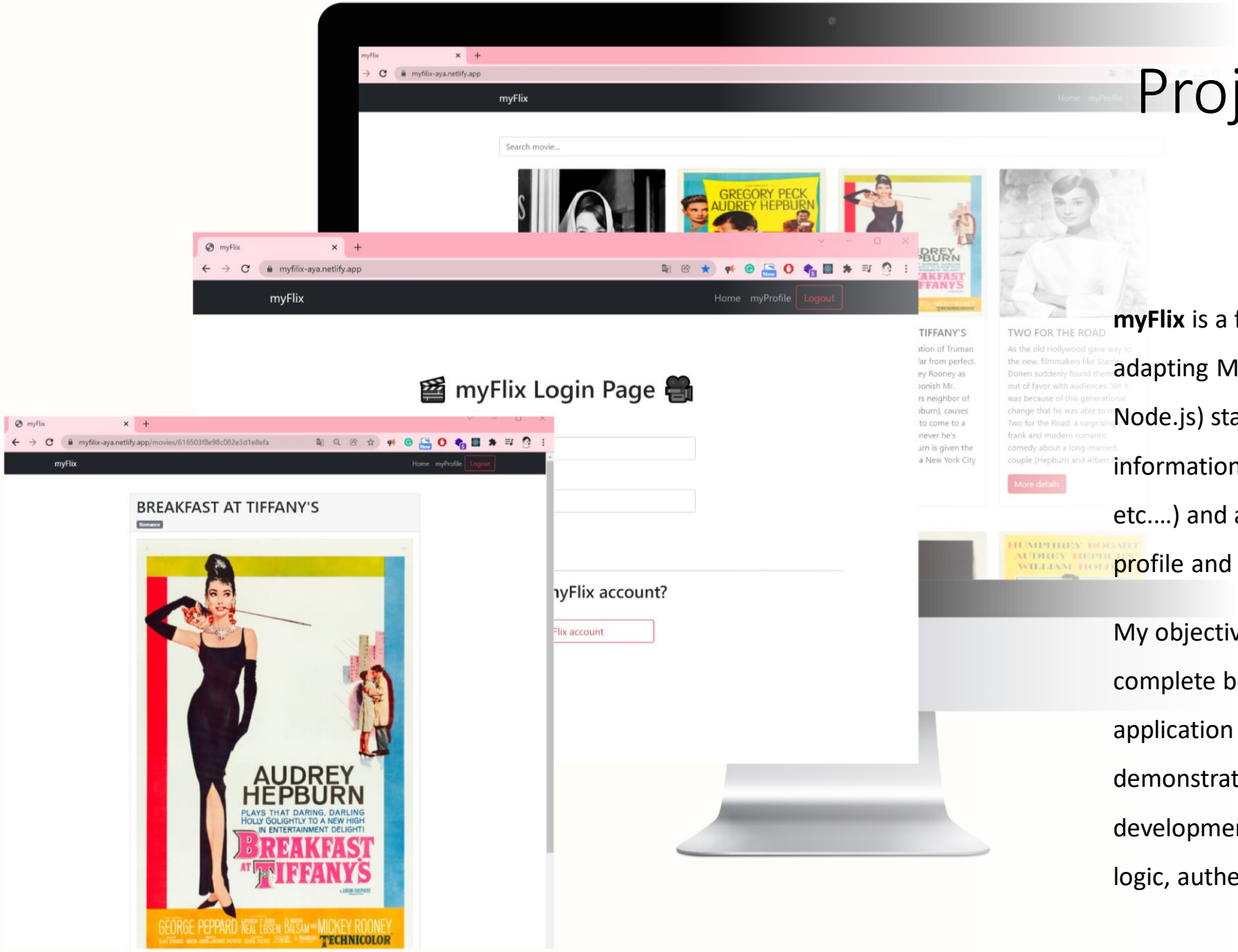
myFlix full-stack project

Case Study



Project Overview and Objective

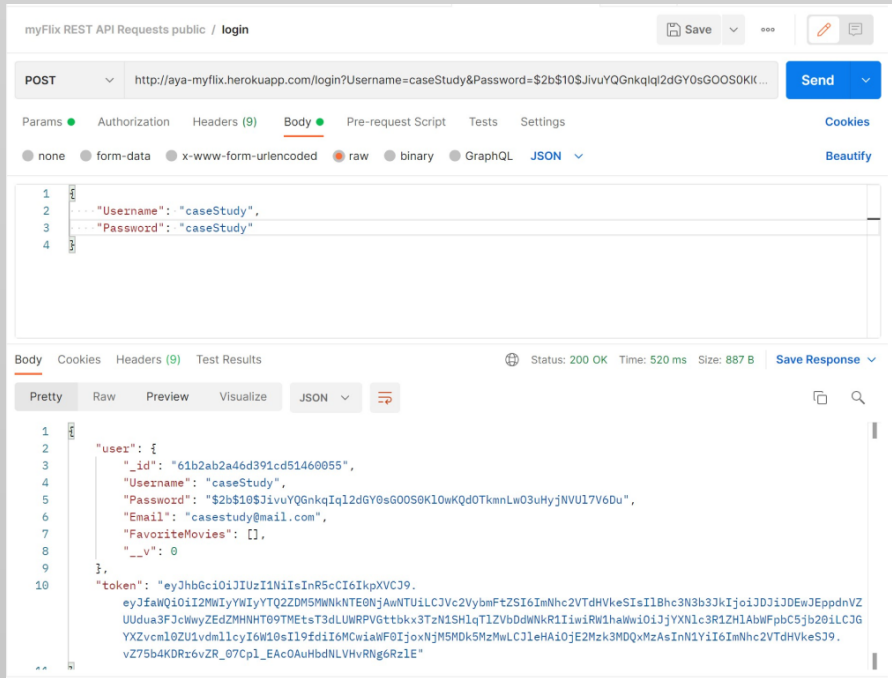
myFlix is a full-stack web application project adapting MERN (MongoDB, Express, React, and Node.js) stack. The application provides movies information (title, genre, director, description, etc....) and allows users to register, update their profile and add/delete their favourite movie lists.

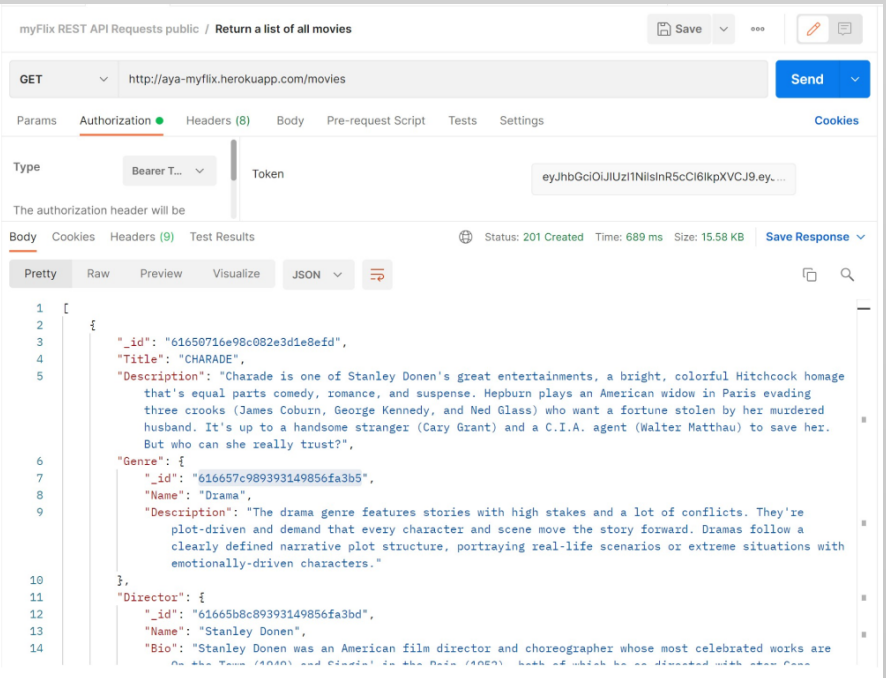
My objective for the project is to build the complete both server-side and client-side for the application from scratch. The project will demonstrate my mastery of full-stack JavaScript development, including APIs, databases, business logic, authentication, and more.

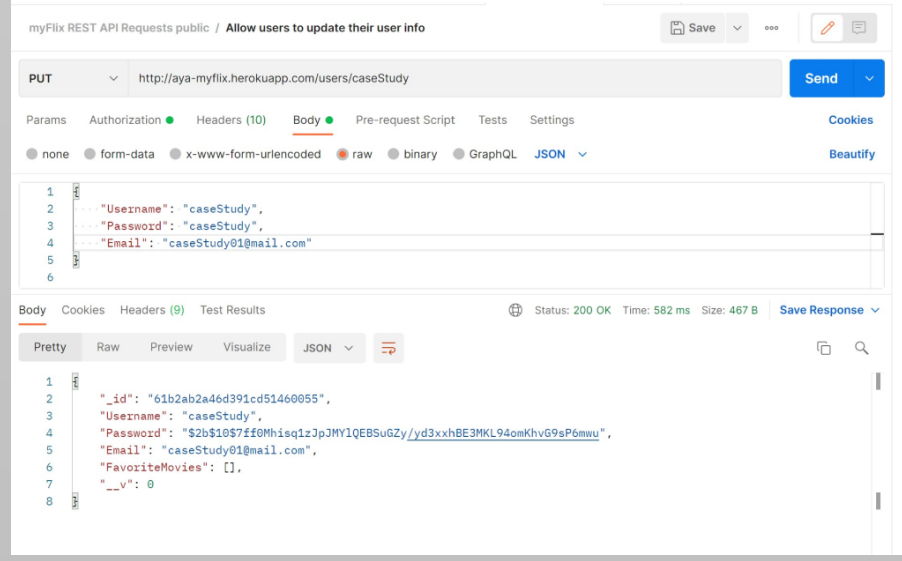
Server-Side

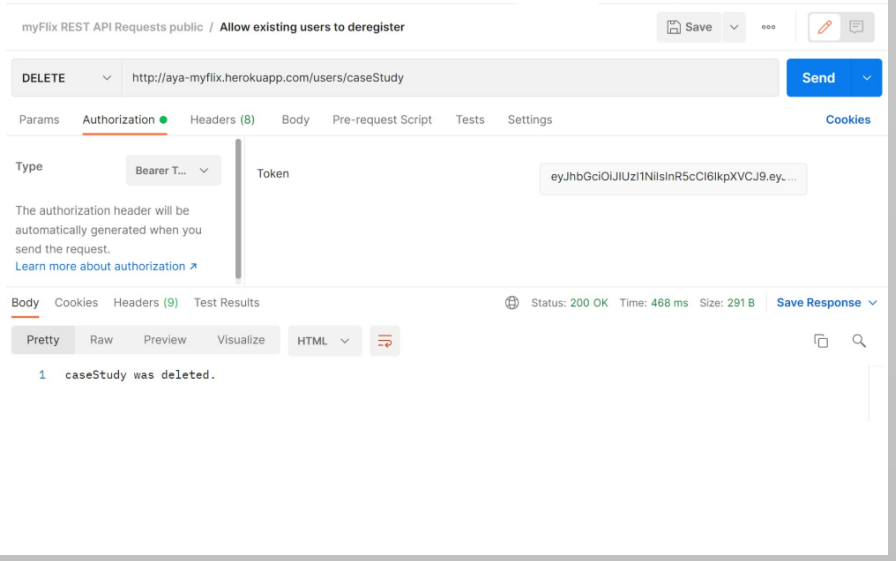
To complete the server-side of my web application, I used Node.js and Express to create RESTful API which is accessed via commonly used HTTP methods like GET and POST. The database was built using MongoDB (non-relational database) and hosted on MongoDB Atlas.

I used Postman to test all API endpoints and for data security reasons, I included user authentication and authorization by using basic HTTP authentication and JWT (token-based) authentication. The completed server-side application was deployed to Heroku.

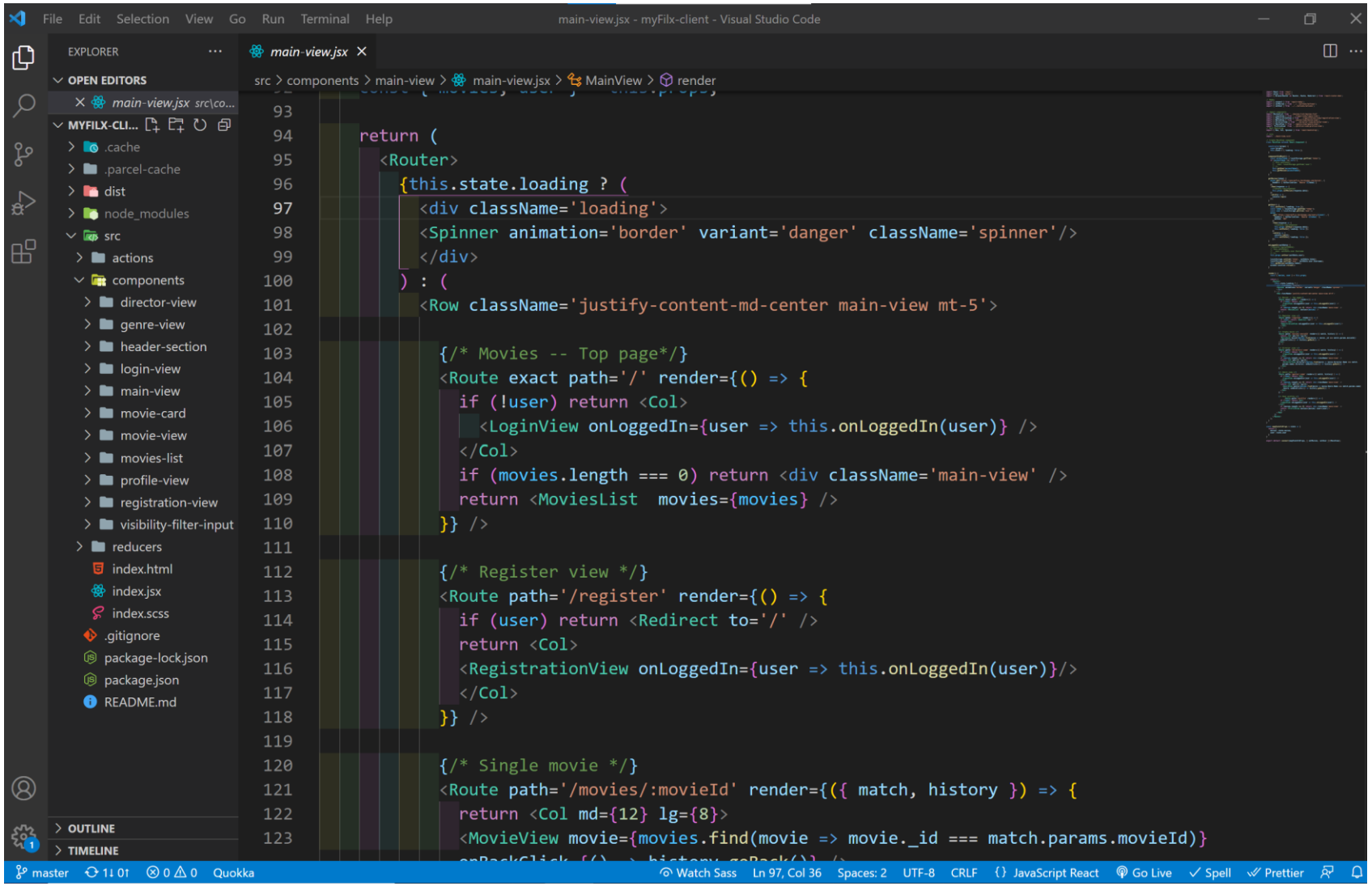








Client-Side



The client-side application is a single-page application (SPA) using React and React-Redux.

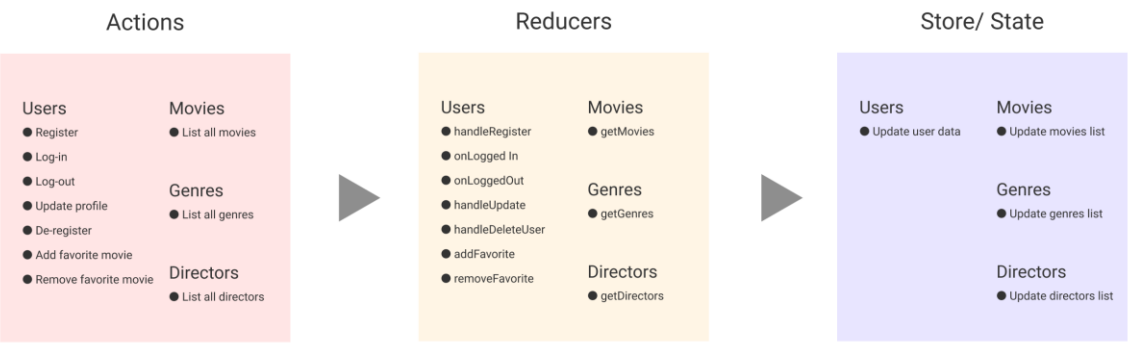
After the API and the database creation are completed, I start creating the interface which users would use when making requests and receiving responses from the server-side. I used React Bootstrap, the one of most popular UI libraries, to achieve a modern responsive appearance.

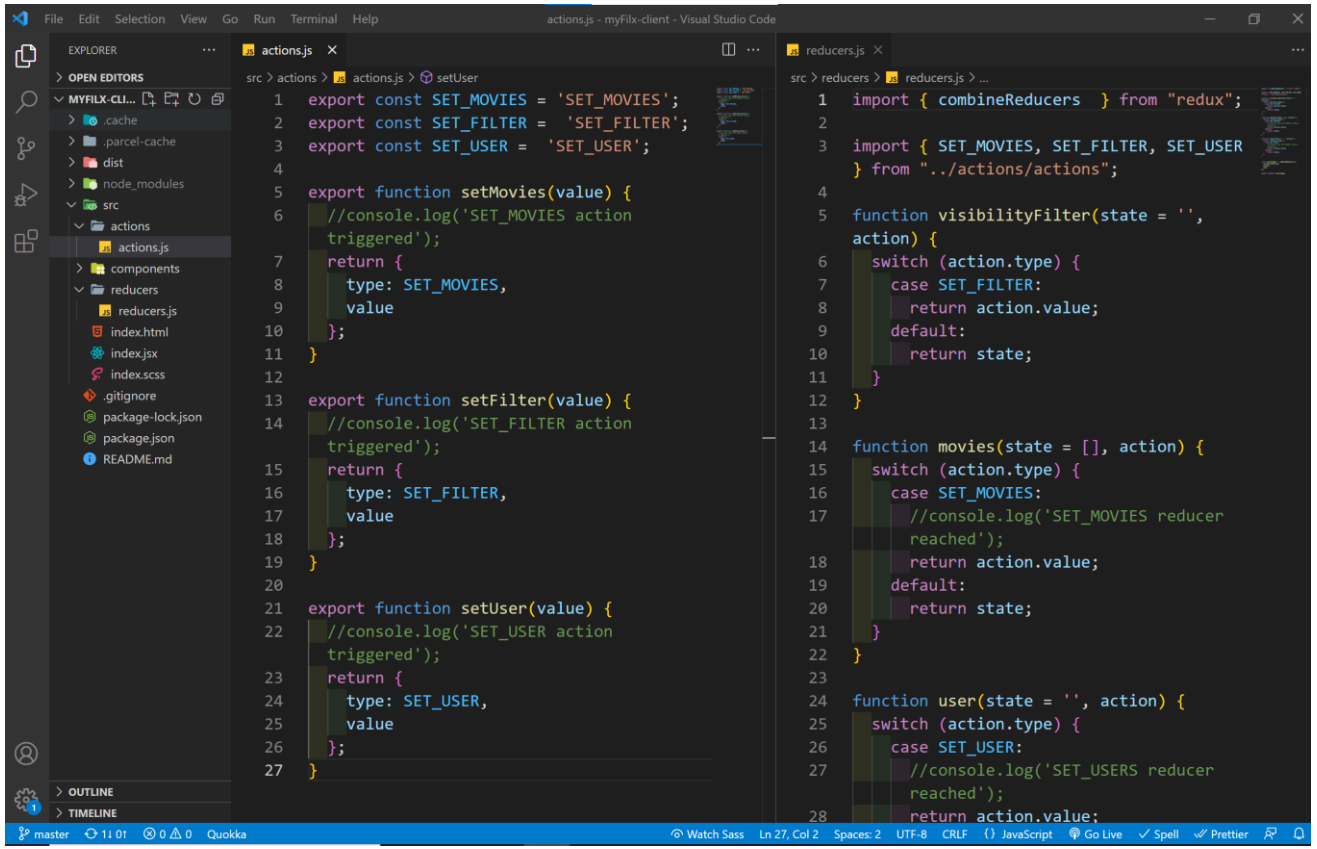
The application is hosted on Netlify (https://myfilix-aya.netlify.app/)

Challenges

The challenging part for the server-side is to become comfortable with using the CLI (command-line interface) but the database creation phase helped me to get used to using it.

For the client-side, it took me time to understand the Redux, and drawing an architectural diagram for the application helped me to see the Redux fundamentals.





Duration

The project period was from 4th October to 5th November 2021.

- Server-side: 4 October to 17 October
- Client-side: 18 October to 5 November

It felt like a long time to complete the project, but I managed to finish it in about a month.

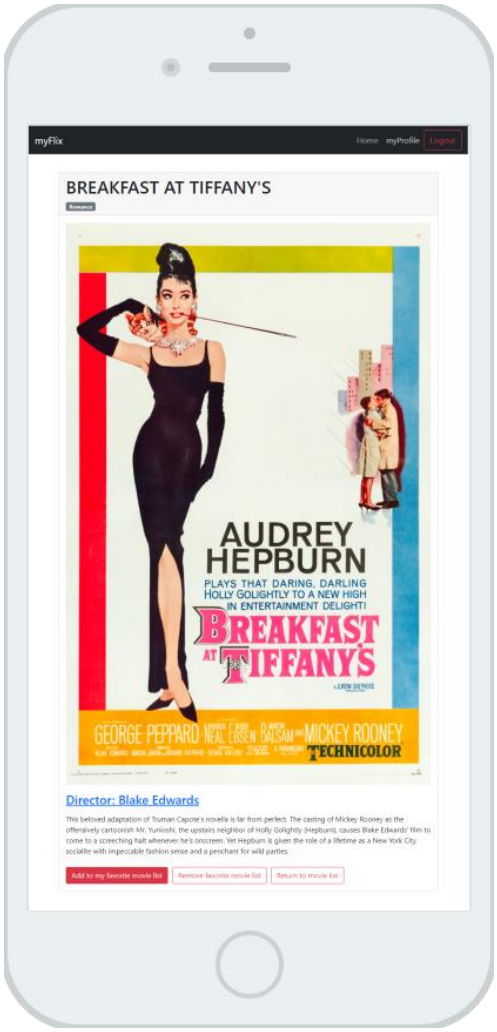
GitHub Repo URLs

myFlix RESTful API

https://github.com/Aya-Ogihara/movie_api

myFlix Client

https://github.com/Aya-Ogihara/myFilx-client



Credits

Role: Full stack developer

Tutor: Glen Coffey

Mentor: Theran Brigowatz