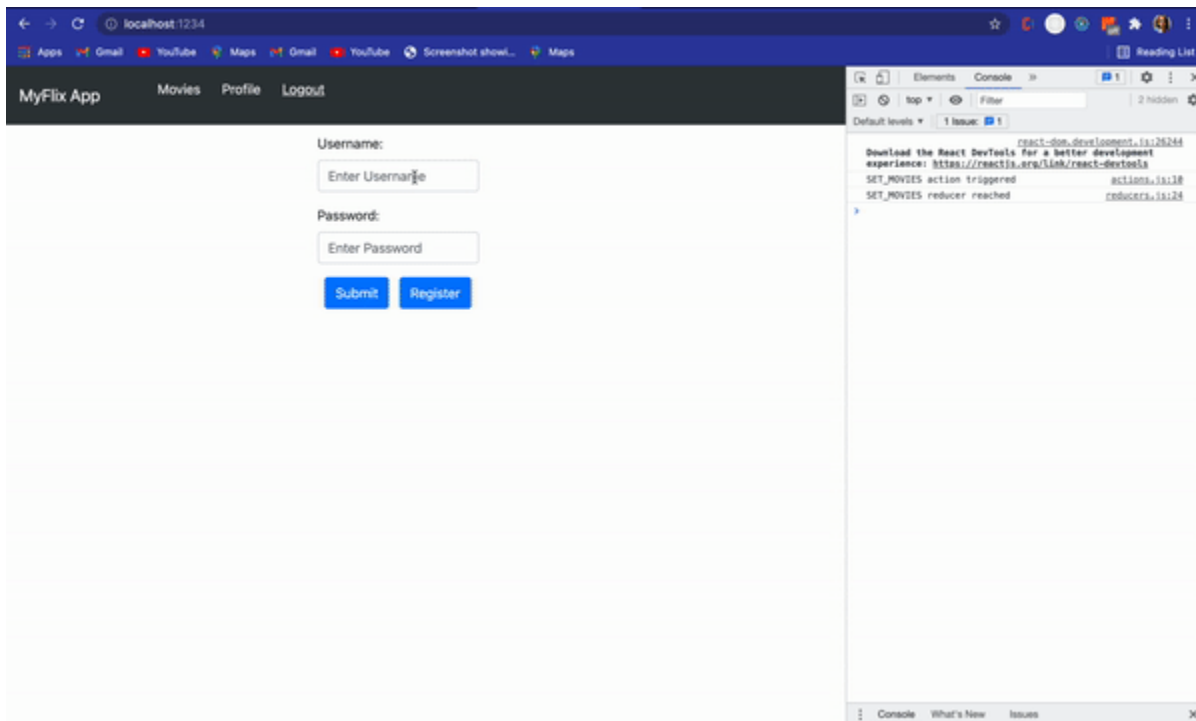# Case Study: MyFlix App

Fig 1.1

Introduction: MyFlix App is a web application which I developed using MERN stack. While working on this app, I learned the usage and importance of react.js and its versatility in the field of web applications development. While talking about MyFlix App, what I denote is the whole package that includes the Front end, the Back end and the database of the MyFlix web application. While using this app, the user can register themselves, login into their account, scroll through the movies on the home page, add any of those movies to their favorites list, delete a movie from their favorites list, delete their account etc.

Purpose and context: This app is a personal project which was created as a part of my CareerFoundry Full-Stack Web Development program to dive deep into JavaScript and it's libraries and have a better understanding of the concepts of react.js. While working on MyFlix App, I gained a deeper knowledge of how to develop a complete Web Application i.e. the Front End And the Back End using the MERN stack.

Objective: The main goal of this project is to create a full-stack web app that I can showcase in my portfolio that will reflect my skills and understanding of JavaScript and it's libraries. My main focus was to build an app completely from scratch and using only

one language, so I chose JavaScript. It helped me to create the User Side, the Client Side as well as the Database from scratch without having to juggle between various languages and syntax!
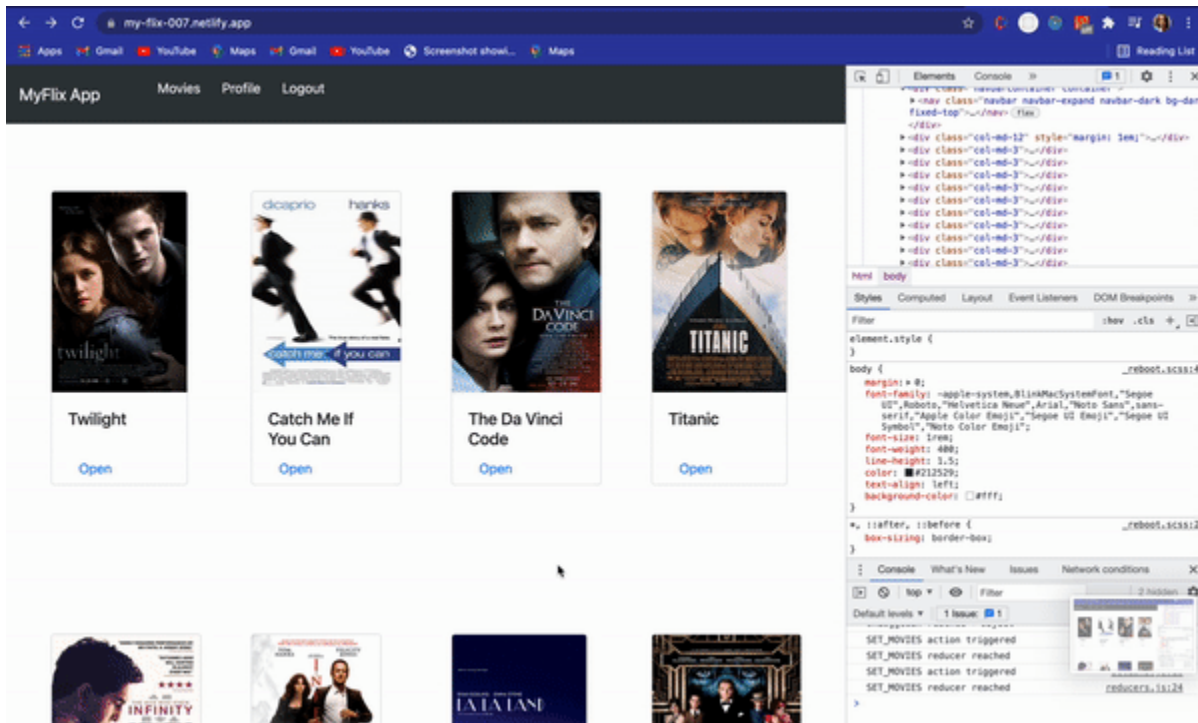

Fig 1.2

App Development Highlights: I chose JavaScript for developing this app because of it's versatile nature and numerous libraries that are regularly updated by the developers all around the world. If you get any error while working on a piece of code, then it's not very difficult to find a solution because of the vast documentation available and other resources such as stack overflow and github. One of the challenges that I faced while working on this app was when I wanted to host the api on Heroku. It was very challenging for me because I was trying to find a solution from the internet for more than a week but nothing was working. At last but not least what worked for me was just a simple command "heroku restart" and it magically corrected the error!
Another challenge that I faced was while I was working on the ProfileView of my App as at that time I was pretty new to react.js and was still learning it's functionality. I was struggling to get the FavoriteMovies List in the UserProfile but at last, what worked was the principal logic behind react, that a component renders every time when the state changes. I gave it a thought, read the docs and did some google research and got it working!
These were some of the biggest challenges that I came across while working on MyFlix App, and It took me about 3 months to finish it. While developing this app, I learned

about the functionality of React.js, relational and non-relational databases, testing the api endpoints on Postman, working with state and props and much more.

I used heroku apps to host the API that I created for this App, the Web App has been hosted on Netlify, and used MongoDB Atlas to store the database of the movies as well as the users.
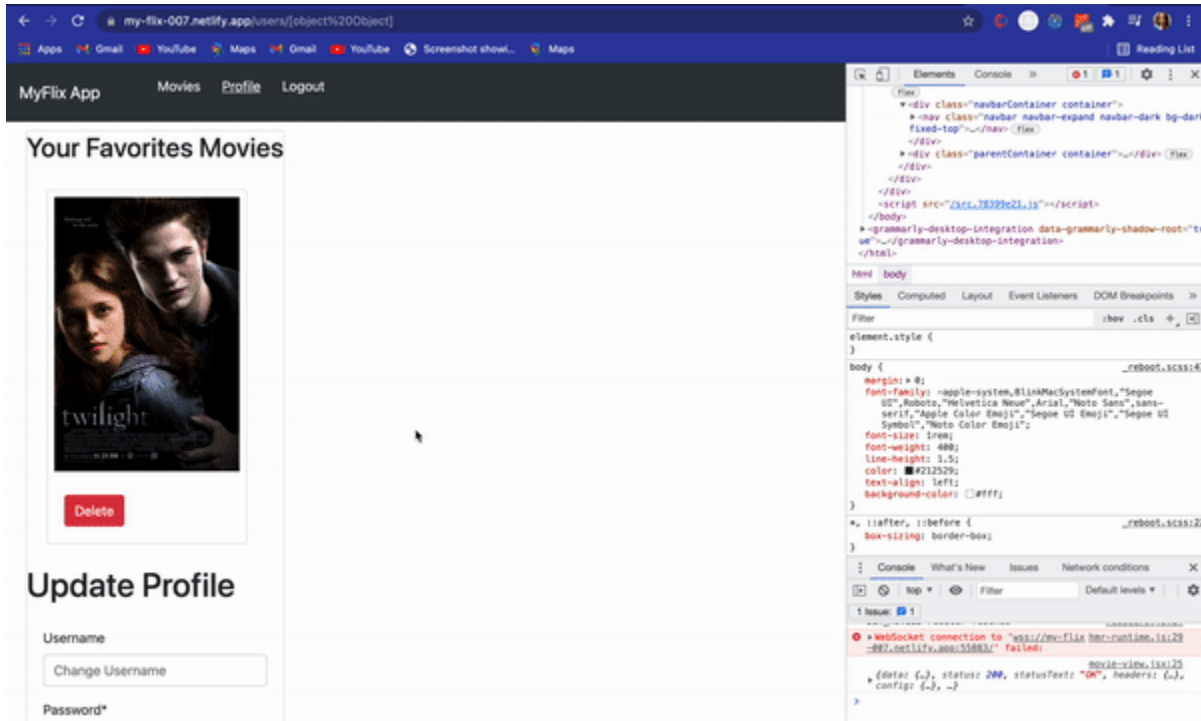

Fig 1.3

Challenges: This project is the first big project that I ever worked on. It was both challenging as well as fun to learn about what could be accomplished with just one programming language. While working on this application, I also familiarized myself with using the terminal. Initially I thought that the terminal would be very complicated to understand but as I started using it and memorized some commands, it became fairly easy. Now I have many commands on tips. All this was made possible with the help of my tutor who was willing to help me whenever I couldn't figure out something and my mentor who always appreciated me as a fresher in the world of coding. I would like to work on projects like this in future to add to my portfolio.