

Case Study for myFlix full-stack project

Overview

myFlix is a web application, developed using MongoDB, Express, React, and Node.js (MERN) stack, that grants users to view movies, directors, and genres while updating their personal information.

Purpose & Context

myFlix is a personal project I created while at CareerFoundry that showed my expertise in making a full-stack web application.

Objective

The end goal was to create a full-stack web application to add to my professional portfolio. The problem I wanted to solve was to create both a server-side and client-side to become a fully functioning JavaScript application from scratch.

Approach

Server-Side

I created a non-relational database (MongoDB), to interact with it I created RESTful API Endpoints using Node.js and Express. These endpoints can be accessed by using common HTTP request methods such as GET, PUT, POST, or DELETE. The movie and user data is in a JSON format within the API.

[Link to Endpoints](#)

The screenshot shows a Postman interface with a PUT request to the URL `https://myflix1-0.herokuapp.com/users/hannah`. The 'Params' tab is selected. In the 'Query Params' section, there is one entry: 'Key' with 'Value'. The 'Body' tab is selected, showing a JSON object with a single key 'Unauthorized'. The status bar at the bottom indicates a 401 Unauthorized status with a time of 55 ms and a size of 370 B.

To make sure the endpoints

were working properly, I used an application called Postman. I would test the endpoints at various stages of each until the final part of adding HTTP authentication and JWT authentication. A tool I found extremely useful when debugging my application.

Client-Side

Once the API was complete, it was time to create the user interface that would interact with the data. It's a single-page web application using React and Redux to feature the multiple interface views for the user to see. The views include a main view, which displays all the movies in the database sorted by title with a respective movie poster. A single movie view, which returns a description of the movie along with separate views for the genre and director of the movie selected. A login, registration, and profile view (to update user info and see a list of favorite movies).

Ford v. Ferrari

American automotive designer Carroll Shelby and fearless British race car driver Ken Miles battle corporate interference, the laws of physics and their own personal demons to build a revolutionary vehicle for the Ford Motor Co. Together, they plan to compete against the race cars of Enzo Ferrari at the 24 Hours of Le Mans in France in 1966.

Director: James Mangold
Genre: Sport

[Director](#) [Genre](#) [Add to Favorites](#)

To make sure the user interface worked properly, I used Parcel to deploy the project locally on my computer before making it live. I enjoyed the fact that it would update after each change I made and was able to interact with it in real time.

Challenges

When developing the client side, I ran into a minor issue that I was able to figure out on my own which I enjoyed figuring out but understanding Redux was a bit of a challenge. Redux took me awhile to figure out because it was a concept of when to use it.

Understanding that concept took me awhile and I got the help I needed from my mentor to help me fully understand what was happening in the background.

Duration

The server-side took me about a little over a week to complete but the client-side took me the longest because of Redux and trying to fully comprehend it. Therefore, I spent more time on it than required by CareerFoundry but still achieved the desired results.

https://myflix1-0.herokuapp.com/movies

GET https://myflix1-0.herokuapp.com/movies

KEY	VALUE	DESCRIPTION	Bulk Edit
Key	Value	Description	

```

1 {
2   "Genre": {
3     "Name": "Sport",
4     "Description": "A sports film is a film genre that uses sport as the theme of the film. It is a production in which
5       a sport, sporting event, athlete, or follower of sport are prominently featured, and which depend on sport to a
6       significant degree for their plot motivation or resolution."
7   },
8   "Director": {
9     "Name": "James Mangold",
10    "Bio": "James Mangold is an American film and television director, screenwriter and producer. He is best known for
11      the films Cop Land, Girl, Interrupted, Walk the Line, The Wolverine and Logan, the last of which earned him a
12      nomination for the Academy Award for Best Adapted Screenplay.",
13      "Birth": "December 26, 1963"
14  }
15 }
```

