

Full Stack Web Development Case Study

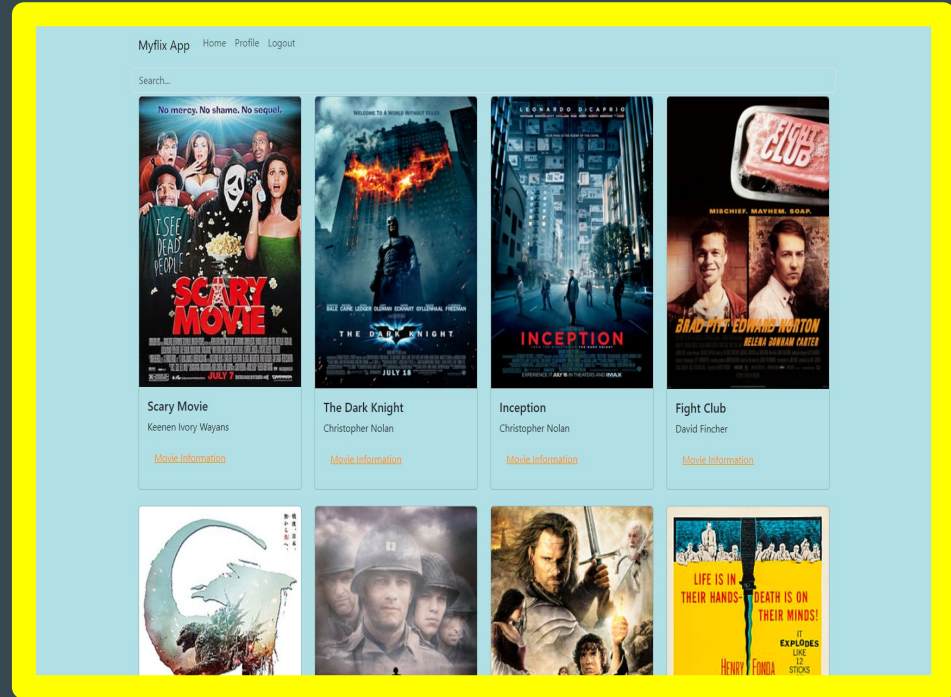
MyFlix

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Overview

MyFlix is a web application that enables users to browse and save a curated list of their favorite movies. The platform provides detailed movie information, including summaries, directors, and genres. To access these features, users must register for an account. Once logged in, they can also update and customize their user profiles.



Purpose

MyFlix was a web application developed for an exercise during my tutelage at Careerfoundry.

The logo for Careerfoundry is displayed within a white rectangular box with a thick black border. The text "CAREER" is in a black, italicized, sans-serif font, and "FOUNDRY" is in a bold, black, sans-serif font.

*CAREER***FOUNDRY**

Objective

The aim was to build a full-stack web application with a robust backend (database and API) and a responsive frontend (client-side).

profile Logout



Title: Saving Private Ryan

Description: The film follows a group of American soldiers dispatched to locate Pvt. Ryan after his three brothers have been killed in battle.

Director: Steven Spielberg

Back

Add to favorite

Backend API

I created my own API using express and passport-jwt. This API designates all the routes and provides Security that requires users to login.

```
/*
 * Get all movies.
 * @route GET /movies
 * @returns {object[]} List of movies.
 * @async
 */
app.get('/movies', passport.authenticate('jwt', { session: false }), async (req, res) => {
  await Movies.find()
    .then((movies) => {
      res.status(201).json(movies);
    })
    .catch((err) => {
      console.error(err);
      res.status(500).send('Error: ' + err);
    });
});

/**
 * Get a movie by title.
 * @route GET /movies/:title
 * @param {string} title - Movie title.
 * @returns {object} Movie details.
 * @async
 */
app.get('/movies/:title', passport.authenticate('jwt', { session: false }), async (req, res) => {
  await Movies.findOne({ title: req.params.title })
    .then((movie) => {
      res.json(movie);
    })
    .catch((err) => {
      console.error(err);
      res.status(500).send('Error: ' + err);
    });
});
```

Backend Database

I created a Database using MongoDB to store user account information as well as all related movie information

```
_id: ObjectId('66d7f05c96575d71932710bd')
Title: "Inception"
Description: "A thief and his crew with the rare ability to enter the dreams of othe_"
Genre: Object
Director: Object
ImagePath: "https://upload.wikimedia.org/wikipedia/en/2/2e/Inception_%282010%29_th_"
Featured: true
```

```
_id: ObjectId('66d6a3553748d6532c2710c5')
Title: "Fight Club"
Description: "An alienated office worker and a charismatic nihilist start an undergr_"
Genre: Object
Director: Object
ImagePath: "https://upload.wikimedia.org/wikipedia/en/f/fc/Fight_Club_poster.jpg"
Featured: true
```

```
_id: ObjectId('66d69b813748d6532c2710bd')
Title: "Godzilla Minus One"
Description: "The movie focuses on Koichi a kamikaze pilot who abandoned his duty, h_"
Genre: Object
Director: Object
ImagePath: "https://upload.wikimedia.org/wikipedia/en/thumb/e/e0/Godzilla_Minus_On_"
Featured: true
```

Frontend

The Client Side of my application is designed to be functional and easy to navigate. I have a movie page where users can view all available movies and a profile page for users to edit their profile.

```
const moviesApi = movies.map((movie) => {  
  return {  
    _id: movie._id,  
    Title: movie.Title,  
    Description: movie.Description,  
    ImagePath: movie.ImagePath,  
    Director: movie.Director  
  };  
});  
dispatch(setMovies(moviesApi));  
}).catch((e) => {  
  console.log(e);  
});  
}, [token]);  
  
const onLoggedOut = () => {  
  setUser(null);  
  setToken(null);  
  localStorage.clear();  
}  
  
const onLoggedIn = (user, token) => {  
  setUser(user);  
  setToken(token);  
  localStorage.setItem("user", JSON.stringify(user));  
  localStorage.setItem("token", token);  
}  
  
const updatedUser = user => {  
  setUser(user);  
  localStorage.setItem('user', JSON.stringify(user));  
}  
  
return (  
  <BrowserRouter>  
    <NavigationBar user={user} onLoggedOut={onLoggedOut} />  
  )
```

MyFlix Information

MyFlix API Specs

Express
Passport-jwt
Bcrypt
Cors
Mongoose

MyFlix Database Specs

MongoDB
Heroku

MyFlix Client Specs

React
Bootstrap
Axios
Redux

Reflection

What I struggled with

This was still around the start of my tutelage so I really struggled to connect the client side of my application with the backend of my application

What I would do now

I would make the application faster than when I did before. I would also try to make a more refined and user friendly interface.

What I Excelled at

I did a good job at keeping the code short and well formatted with proper documentation.

Thank You For Reading

More Website Images

Myflix App Home Profile Logout

Account Information

Username: Hopeful
Email: rainbow.sams@gmail.com

Update Info

Username:
Jesse

Password:


Email:

Birthday:
yyyy-mm-dd

Edit Profile

Delete account

Your Favorite Movies



Myflix App Login Signup

Username:
Jesse

Password:

Submit

Website Link:

<https://myflixfm.netlify.app/login>