CineDEX

A FULL STACK CASE STUDY

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CineDEX

Overview

CineDEX is a single-paged responsive web application developed using the MERN stack and uses routing and multiple interface views to provide a number of features to film lovers. Users can register, login, update their profiles, search for movies by title, genre, or director and even create a favorite movie list where they can add or remove favorites. CineDEX also provides users with information about an assortment of movies, directors, and genres.

Check it out

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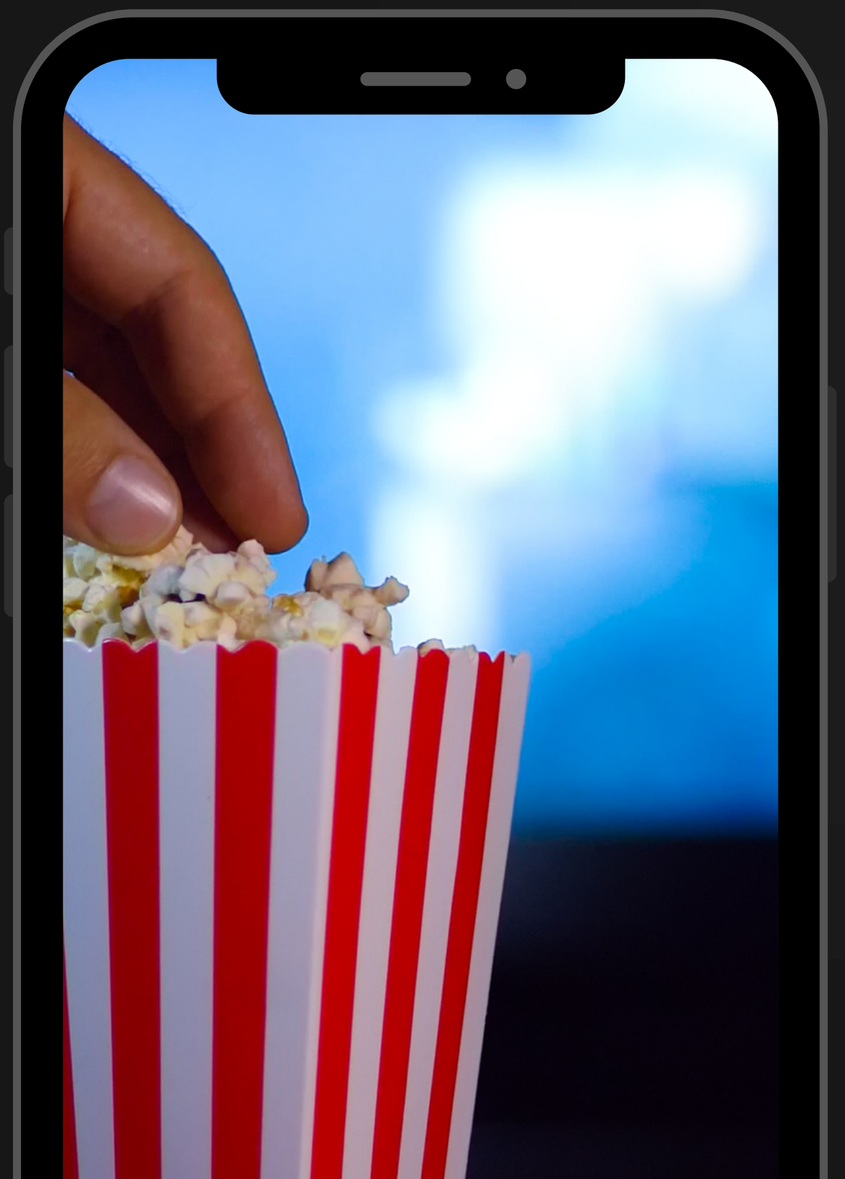

Objective

This project was part of the the full-stack immersion course from the web development program at CareerFoundry to demonstrate mastery of full-stack JavaScript development. The goal was to create a complete web app (server-side and client-side) to showcase in my portfolio.

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Details

Roles

Role: Lead Developer
Tutor: Ebere Iweala
Mentor: Mahesh Rodrigo

Duration

Both server-side and client-side took me approximately 7-8 weeks to complete from start to finish, but client-side took significantly longer than server-side.

Methodologies

- MERN stack
- Postman
- Heroku
- React Bootstrap
- Redux

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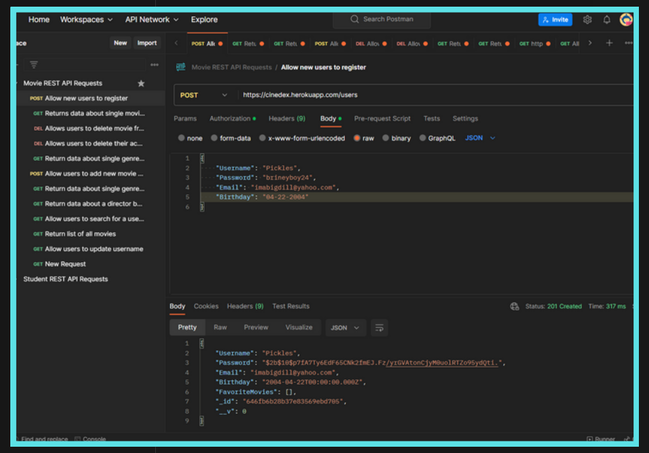
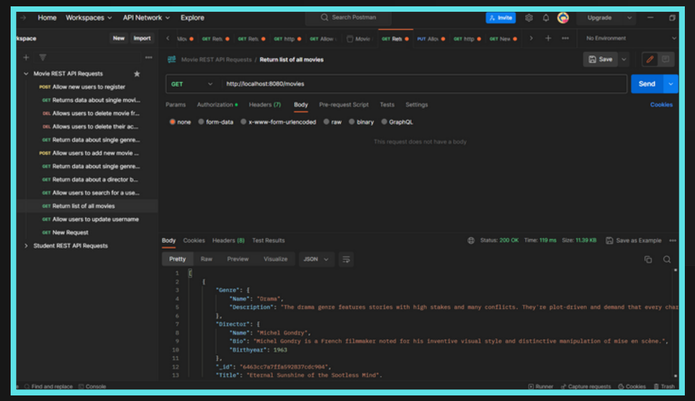
Server-Side





I created a REST API to interact with a non-relational database of movies I made using MongoDB. The API is accessed through HTTP methods, where requests can be sent to set endpoints to retrieve specific data from the database. I also implemented basic HTTP and JWT token-based authentication as well as password hashing and data validation. I was able to test the functionality of these endpoints using Postman during development. Last, I used MongoDB Atlas to host my database and Heroku to deploy my app.

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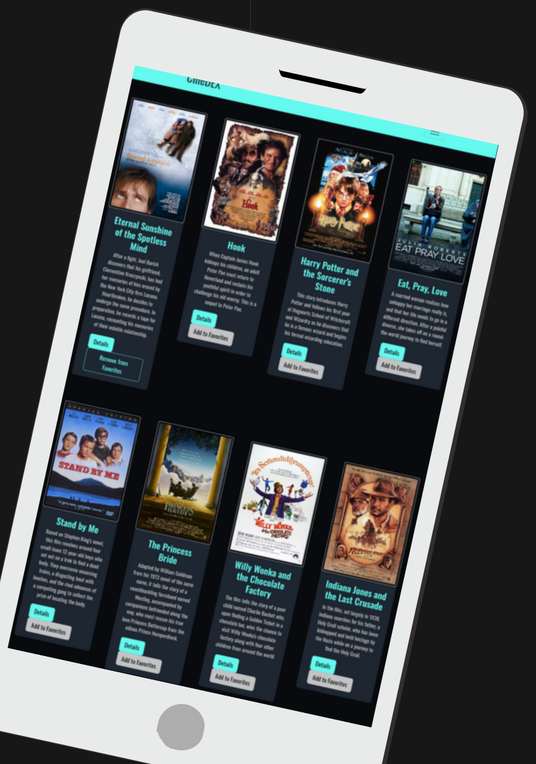
Client-Side



After ensuring my server-side code was fully functional, I needed to create the interface to be used by users to make requests and get responses from the server-side. Using React and Redux I created components for each of the interface views of the application.
After developing the logic to support the requests from users and handle data through the REST API endpoints, I used React Bootstrap to create aesthetically appealing and consistent styling.

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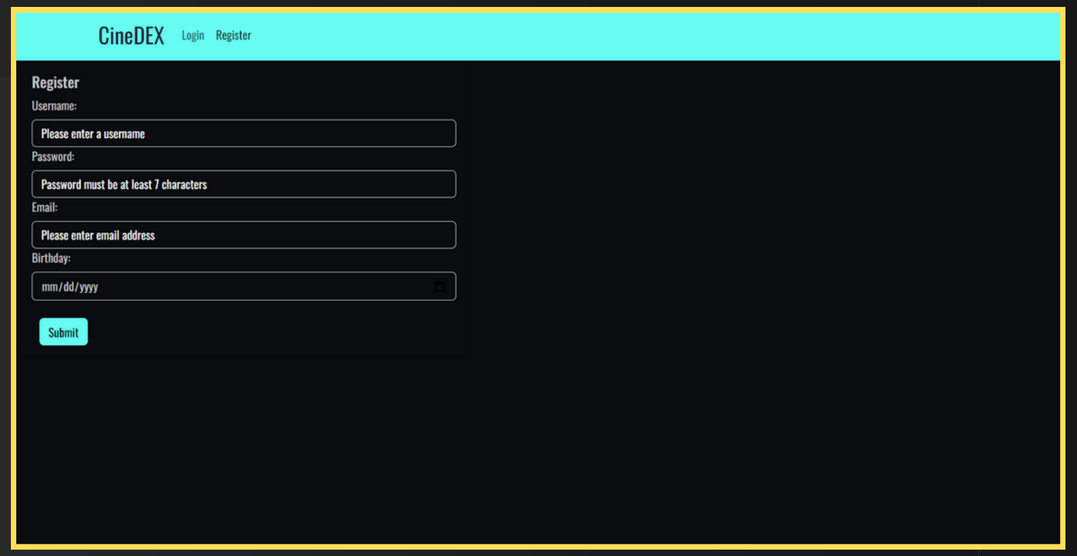
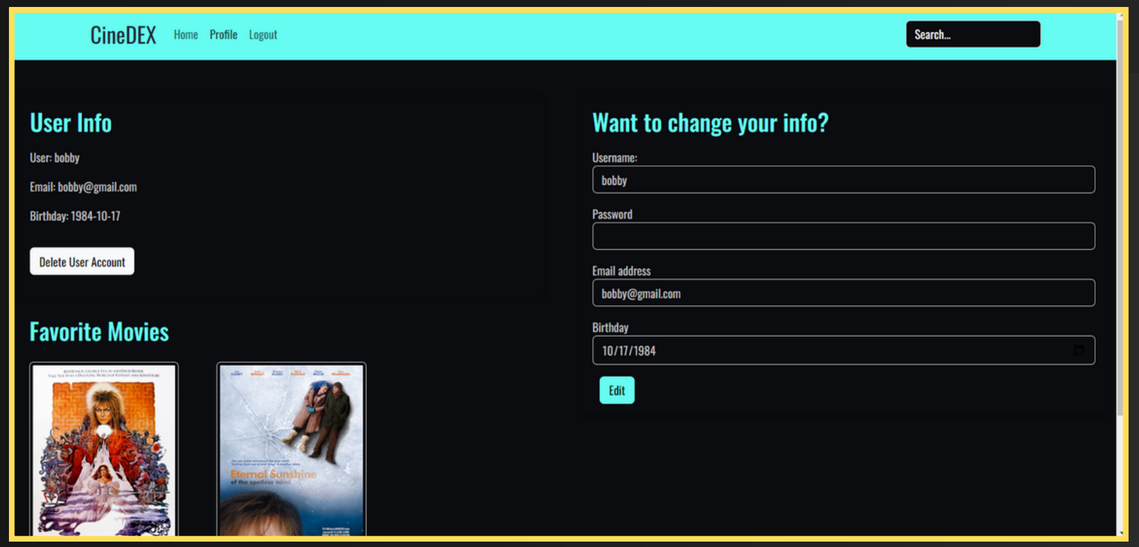
Interface Views



Registration View



Profile View

Users can register, log in, create a profile and browse movies.

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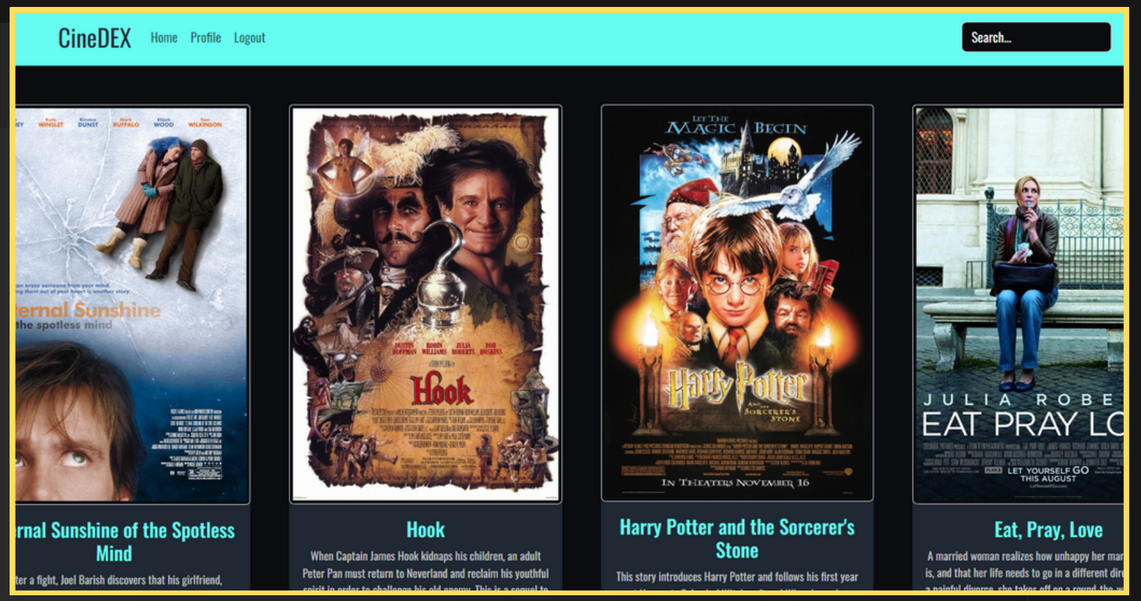
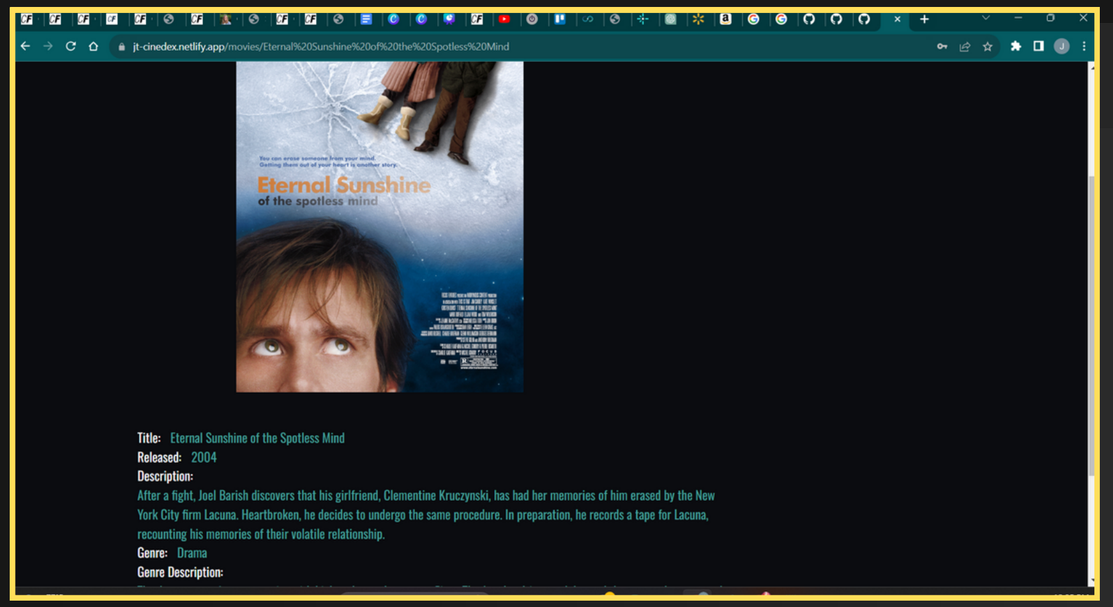
Interface Views



Main View



Movie View

Upon clicking the details button on a particular movie, the user can access release date, a movie synopsis, and genre and director information.

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Retrospective

What went well

As a very organized person and analytical thinker, I really enjoyed working on the server-side portion and database and felt I was able to complete it quickly and efficiently.

Challenges

While I struggled a bit at first with the logic behind the interaction between components, I tried to take more time to grasp the new concepts I learned. Finding the time to do this was also a challenge.

Final thoughts

I believe I would have benefitted from creating wireframes of each view so I could get a better feel for exactly what logic was required for each component and how it would interact with the other components as well as with styling.