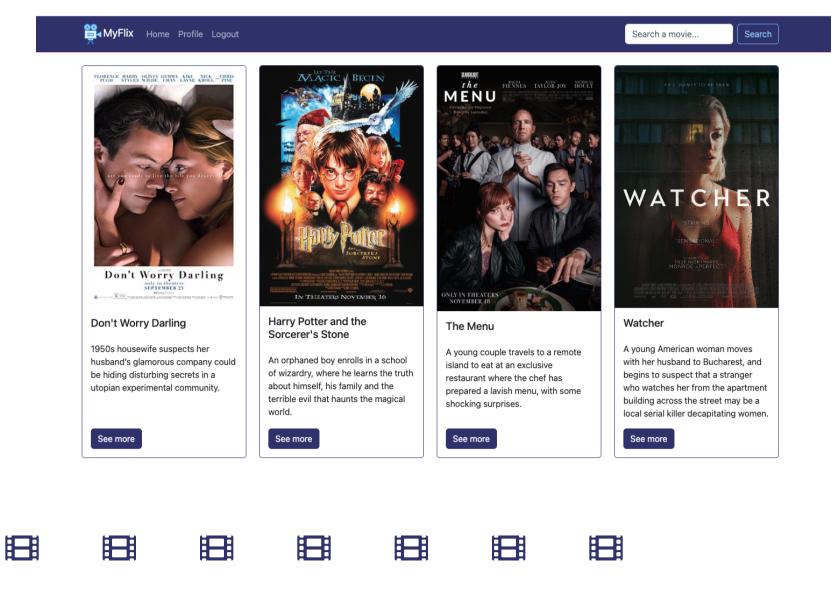
Full-Stack Case Study myFlix Project

Stela Ceaicovscaia

Purpose

myFlix is a web application designed with the MERN stack. It offers users access to movierelated information, including details about films, directors, and genres. Users are able to create an account, modify their personal information, and create a collection of favorite movies



Purpose

myFlix was developed as a personal project during my web development course at CareerFoundry to showcase my skills in full-stack



The project's objective was to build a comprehensive server-side and client-side web application entirely from scratch, with the intention of adding it to my professional portfolio.

JavaScript development.

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It took me approximately 2-3 weeks to build the server side of the application. However, the development of the client side extended tp over a month due to my learning curve with a new tools - React and Redux



Methodologies

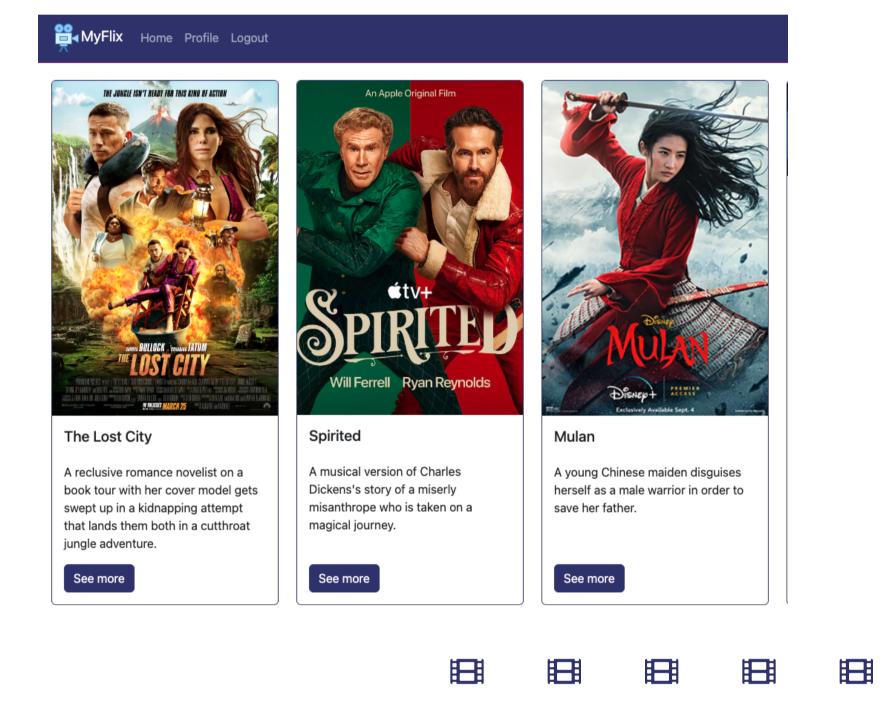
- **MERN Stack** ٠
- Postman
- Heroku
- React Bootstrap
- Redux



Credits

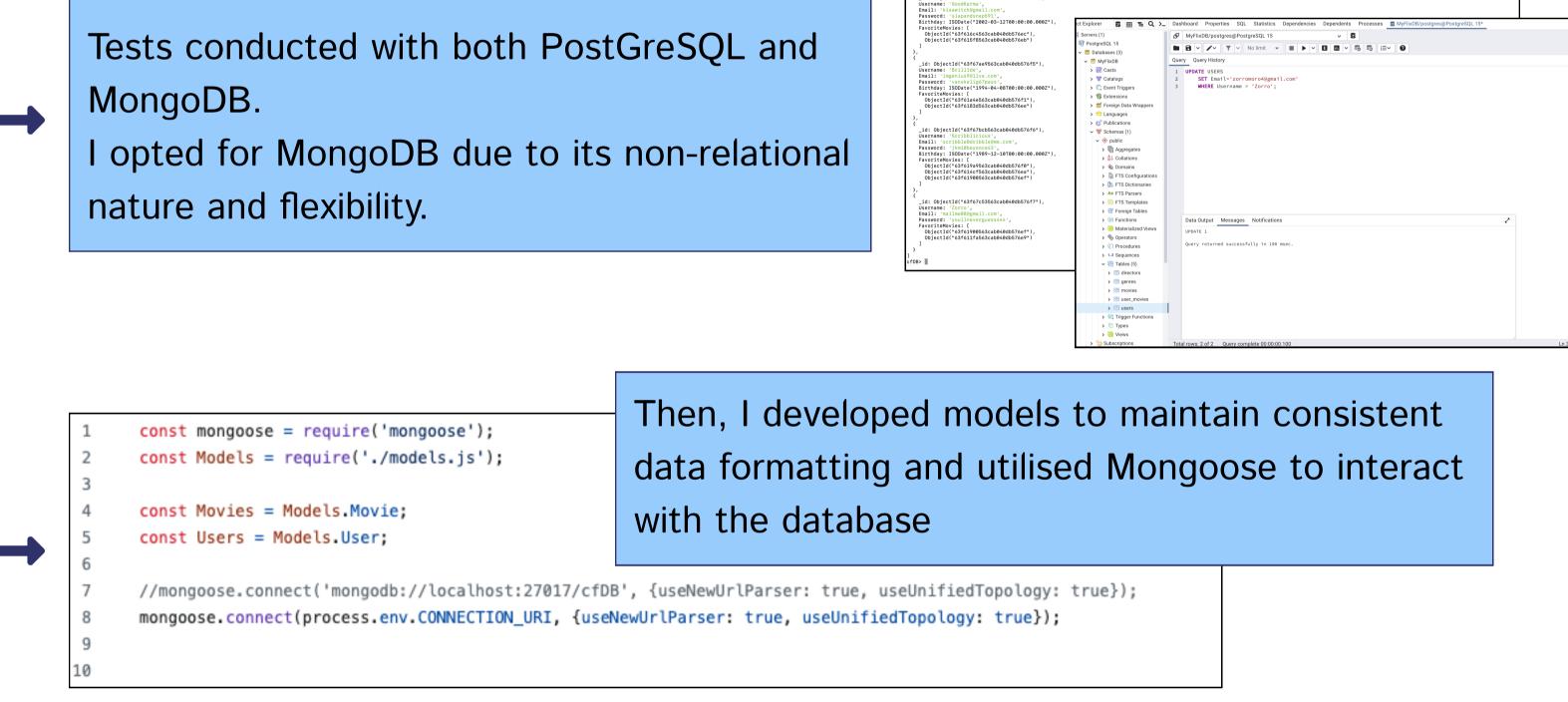
Lead Developer: Stela Ceaicovscaia Tutor: Adewunmi Bamishigbin Mentor: Emmanuel Nsambu

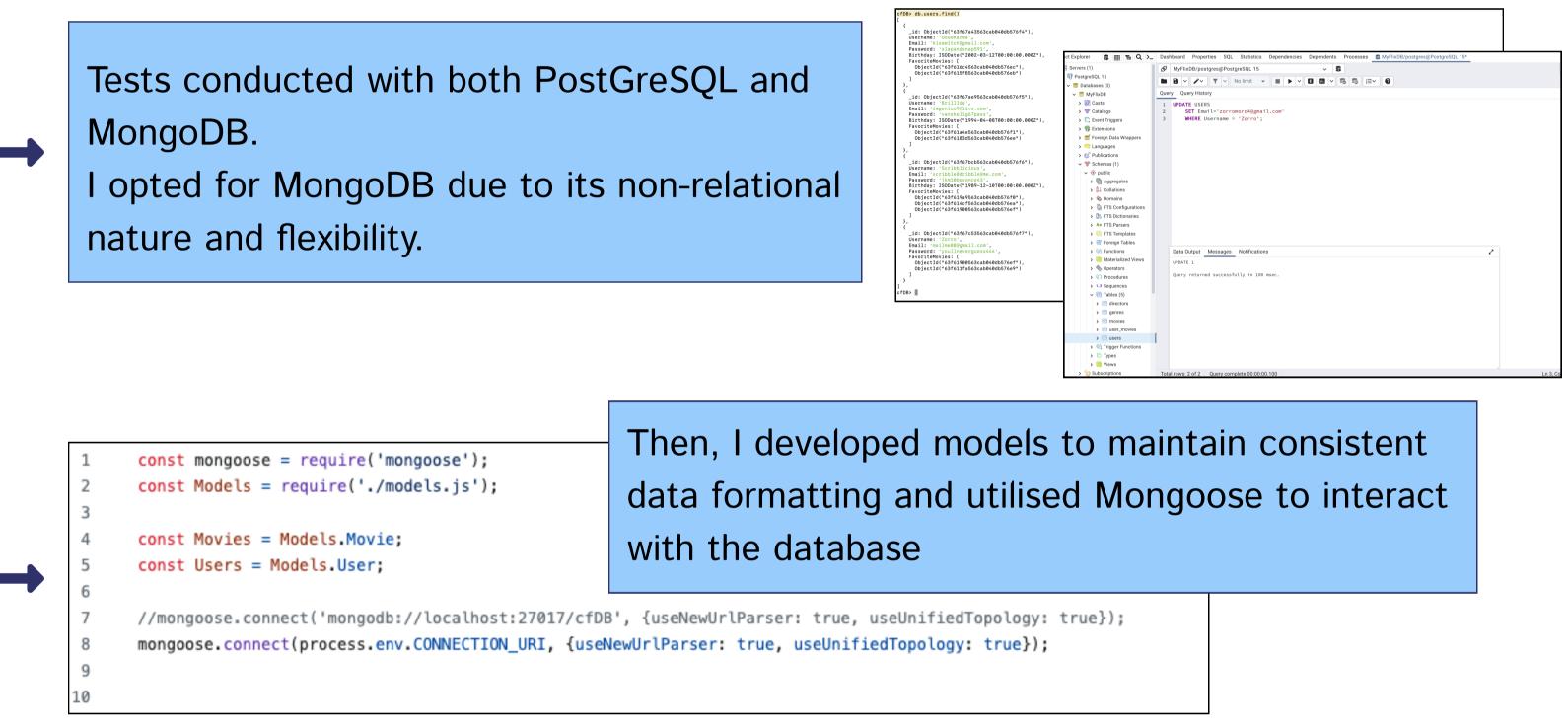




Server-Side

I created a RESTful API using Node.js and Express, which communicates with a non-relational MongoDB database. This API is accessible through standard HTTP methods such as GET, POST or DELETE. The CRUD method is used to fetch and store data in the database, offering movie information in JSON format.





Server-Side

Basic HTTP for the initial login, coupled with JWT token-based authorization was implemented. Additionally, I integrated CORS, employed password hashing, and implemented data validation to enhance the overall security of the application.

const passport = require("passport"), LocalStrategy = require("passport-local").Strategy, Models = require("./models.js"), passportJWT = require("passport-jwt");

> passportJWT.Strategy, //defines basic HTTP authentification for login requests passportJWT.ExtractJwt;

ocalStrategy({ "Username", "Password" word, callback) => { ername + " " + password); {Username: username}, (error, user) => {

le.log(error);

JT localhost:8080/movies 🗕 🕂 👓 No Environment Movies / localhost:8080/movies 8 E 🖺 Save 🗸 👓 http://localhost:8080/users/ChikiWiki Send PUT Body • Pre-request Script Tests Settings Cookies Params Authorization Headers (8) none 🔵 form-data 🛛 🔵 x-www-form-urlencoded 🥥 raw 🔵 binary 💭 GraphQL Beautify "Username": "ChikiWiki67" 3 "Password": "myfabpassword768" "Email": "chiki@wiki.com", 4 "Birthday": "1994-06-07" 5 (200 OK 32 ms 416 B Sa Body Cookies Headers (7) Test Results Pretty Raw Preview Visualize JSON ~ id": "63f879095a90a19f4029c33a" "Username": "ChikiWiki67", "Password": "myfabpassword768" "Email": "chiki@wiki.com", "Birthday": "1994-06-07T00:00:00.000Z", "FavoriteMovies": [], "__v": ⊙ 9

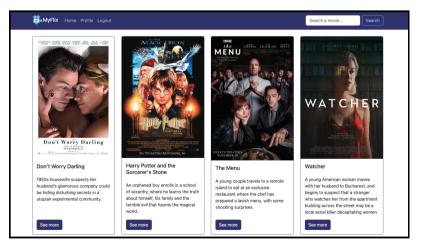
After testing all endpoints using Postman, I proceeded to deploy my application, using Heroku as the hosting platform and MongoDB Atlas to host my database.



Once API was finalized, I shifted my focus to crafting the user interface that would enable users to interact with the server-side effectively. This interface is a single-page responsive application

developed using React and React-Redux. It offers several interface views, including:

Main View



Displays a list of all available movies

Single Movie View

≝∢MyFlix Home Profile Logout		Search a movie	Search
HARMER I CARE HENRIS TATUOR OF 100000 MENNING MANAGEMENT AND	The Menu Description: A young couple travels to a remote island to eat at an exclusive restaurant wh menu, with some shocking surprises.	iere the chef has prepared a li	avish
	Genre: Thriller A thriller novel devotes most of its focus to suspense, dread, and the fear of a already happened Director: Mark Mylod	I future crime—instead of one	that's
	Mark Mylod is a British television and film director and executive producer. He series Succession and Shameless, as well as for directing the horror-comedy Add to favorites Back		television
ONLY IN THEATERS NOVEMBER 18			

Presents detailed information about a specific movies and allows users to add it to their list of favourite movies

Profile View

Signup/Login Views		
Username:		
stellacea		
Password:		
Email:		
Birthday:		
dd/mm/yyyy		
Submit		

Enables users to create an account/ Provides a platform for user authentication

Your information	Edit your information	
Username: stellacea	Change username	
Password: *******	Change password	
E-mail: stela.ceaicovscaia@hotmail.com	Change email	
Birthday: 2008-09-09T00:00:00.000Z	Change birthday	

Allows users to update their personal information and manage their list of favorite movies

Retrospective

The original intention was to create a web application with new tools, frameworks and databases. Time management posed a significant challenge since I was working full-time alongside my studies. Nevertheless, I'm content with the outcome and proud of my application. Moving forward, I plan to enhance my skills by practicing and embarking on more projects using React and Redux.

