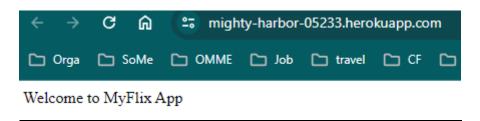
# Backend - Achievement 2 - Server-Side Programming & Node.js

## 1) Description of the project

- What was my role for this project and what tasks did I face?
  - Building the server-side component of a "movies" web application that
    provides users with access to information about different movies and makes it
    possible for users to sign up, update their personal information and create a
    list of their favourite movies
  - Feature requirements:
    - return a list of ALL movies to the user,
    - return data (description, genre, director, image URL, whether it's featured or not) about a single movie by title to the user,
    - return data about a genre (description) by name/title (e.g., "Thriller"),
    - return data about a director (bio, birth year, death year) by name,
    - allow new users to register,
    - allow users to update their user info (username, password, email, date of birth),
    - allow users to add a movie to their list of favourites,
    - allow users to remove a movie from their list of favourites,
    - allow existing users to deregister
- Lessons I learned / decisions I made during this project
  - setting up my project directory,
  - practicing writing Node.js syntax,
  - o creating a "package.json" file,
  - o importing all necessary packages into project directory,
  - o defining my project dependencies,
  - o routing HTTP requests for my project using Express,
  - o defining the endpoints for my REST API,
  - o creating a relational (SQL) database for storing movie data using PostgreSQL,
  - recreating my relational (SQL) database as a non-relational (NoSQL) database using MongoDB,
  - o modeling my business logic using Mongoose,
  - implementing authentication and authorisation into my API using basic HTTP, authentication and JWT (token-based) authentication,
  - o incorporating data validation logic into my API,
  - o implementing data security and storage controls,
  - o hosting my project on the web using Heroku,

### 2) A screenshot to represent the project



```
id: ObjectId("63a07c8f38achbcaM699ccd1"),
file: 'Stuart Little',
Description: 'When the Littles go to an orphanage to adopt a new family member, a charming young mouse named Stuart is chosen.',
Genre: {
    Name: 'Comedy',
    Description: 'Comedy is a genre of file in which the main emphasis is on humor. These files are designed to make the audience laugh through amusement and most often work by exaggerating characteristics f
    She humorous effect.'

Director: {
    Name: 'Nob Minhoff',
    Sio: 'Robert Raigh Himboff is an American filemaker,',
    Sio: 'Robert Raigh Himboff',
    Sio: 'Robert Raigh Himboff',
    Sio: 'Robert Raigh Himboff is an American filemaker,',
    Sio: 'Robert Raigh Himboff',
    Sio: 'Robe
```

## 3) A link to the project's GitHub repository

o <a href="https://github.com/Luisa-Inc/movie api">https://github.com/Luisa-Inc/movie api</a>

# 4) A link to the live, hosted version of my app

https://mighty-harbor-05233.herokuapp.com/

#### 5) A list of the technologies used for each project

- o Node.js: JavaScript runtime for server-side scripting.
- Express: Back end web application framework for building RESTful APIs with Node.js.
- MongoDB with Mongoose: NoSQL database and Object Data Modeling library for Node.js.
- o Postman: Allows you to design, develop, test and monitor APIs.
- o body-parser: Express middleware for parsing request bodies.
- o express-validator: Middleware for input validation in Express.
- o jsonwebtoken: Library for JWT ( JSON Web Token) generation and verification.
- o lodash: Utility library for JavaScript.
- o passport: Authentication middleware for Node.js.
- o passport-jwt: Passport strategy for JWT authentication.
- o passport-local: Passport strategy for username/password authentication.
- o uuid: Library for generating unique identifiers.