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,
  - creating a “package.json” file,
  - importing all necessary packages into project directory,
  - defining my project dependencies,
  - routing HTTP requests for my project using Express,
  - defining the endpoints for my REST API,
  - creating a relational (SQL) database for storing movie data using PostgreSQL,
  - recreating my relational (SQL) database as a non-relational (NoSQL) database using MongoDB,
  - modeling my business logic using Mongoose,
  - implementing authentication and authorisation into my API using basic HTTP, authentication and JWT (token-based) authentication,
  - incorporating data validation logic into my API,
  - implementing data security and storage controls,
  - hosting my project on the web using Heroku,

2) A screenshot to represent the project

3) A link to the project’s GitHub repository

- https://github.com/Luisa-Inc/movie_api

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

- JavaScript
- Express
- Node.js
- MongoDB
- PostgreSQL
- Mongoose
- Postman
- Heroku