

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



