2 - Server-Side Programming + Node.JS

Full Project Brief:	https://drive.google.com/file/d/1E8t-ZN5xE08XxzycWHnUFJIKw7Lu3DbD/view?usp=sharing
Github + ReadMe:	https://github.com/koernerclaudia/CMDB/tree/main
Swagger Documentation:	https://cmdb-b8f3cd58963f.herokuapp.com/api-docs/
JS Documentation	https://koernerclaudia.github.io/CMDB/
Tech, Tools & Methods covered:	Node.js, Express, Mongoose, MongoDB & Mongo Atlas, Heroku, Rest APIs, Morgan, CRUD, Swagger, Postman, PostGresQL, Databases, JWT, OAuth, CORS, Bcrypt,

Project Objective

To build the server-side component of a “movies” web application. The web application will provide users with access to information about different movies, directors, and genres. Users will be able to sign up, update their personal information, and create a list of their favorite movies.

Key Features

- As a user, I want to be able to receive information on movies, directors, and genres so that I
  can learn more about movies I’ve watched or am interested in.
- As a user, I want to be able to create a profile so I can save data about my favorite movies.

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1. **What was your role in this project, and what tasks did you face?**

Backend Engineering and thinking of the logic of how the API should be structured.

2. **What decisions did you take and why? What were the consequences?**

I added actors to the list to give more options for info about movies - this meant in the frontend of the app, I could also let people search movies by actors.

3. **If you could, what would you do differently?**

I would build out more schemas and divide the documents more to be able to do more with the data.

4. **What lessons did you learn during this project?**

- You need to have a very good idea of what you are building. Planning the database framework is key and having a lot of knowledge on how to structure this.
- The additional prep work with Postgres helped to learn more about relational and non-relational databases

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Below one of the JSON Documents of the Movies / Movie Schema for Movie: Interstellar


```json
{
    "_id": {
        "$oid": "66a374b384a37c5b1b60c5bf"
    },
    "Description": "A team of explorers travel through a wormhole in space in an attempt to ensure humanity's survival.",
    "Director": {
        "Bio": [
            "Born in London in 1970. Author, producer and known for movies that deal with time..."
        ],
        "Name": "Christopher Nolan",
        "Birthyear": "1970"
    },
    "Genre": {
        "Type": "Science Fiction",
        "Description": "Stuff that cannot be real."
    },
    "Bio": [
        "Born in London in 1970. Author, producer and known for movies that deal with time..."
    ],
    "Title": "Interstellar",
    "Actors": [
        "Matthew McConaughey",
        "Anne Hathaway"
    ],
    "ImageURL": "https://static.kino.de/wp-content/uploads/2015/10/interstellar-2014-filmplakat-rcm1920x1080u.jpg",
    "Featured": true
}
```