

imageAPI Documentation

Specification

Frontend: React

Backend: Express/Node.js

Database: Mongodb/Mongoose

Demo video

<https://drive.google.com/file/d/1RQLIJUaHo-N1WNMhZpxZnU5SM52Ui65n/view?usp=sharing>

Initialize Project

With Docker

Open terminal and run the following steps:

(To clean up previous docker image, please run `docker-compose down -v`)

1. Go to project repository:

```
cd imageAPI
```

Open docker

```
open -a docker
```

Run make file script or use docker command

```
make run-dev(docker-compose up)
```

Open browser, go to: <http://localhost:3000/>

Without Docker

1. Edit code in `server/index.js` and change the code as follow.

```
mongoose.set("strictQuery", false);
mongoose
  .connect("mongodb://localhost:27017/imageAPI")
  // .connect("mongodb://mongo:27017/imageAPI")
  .then(() => {
    console.log("Connect to mongodb!");
  })
  .catch((e) => {
    console.log(e);
  });
```

2. You need to open two terminal, react, nodejs, mongodb need to be installed in advance.

First terminal:

```
cd imageAPI/server
```

```
npm install
```

```
npm run start
```

Second terminal:

```
cd imageAPI/client
```

```
npm install
```

```
npm start
```

Open browser, go to: `http://localhost:3000/`

Dockerfile

Frontend/ Backend image - node:16-slim

<https://github.com/nodejs/docker-node/blob/3f8018043408490439723ed3b71ab5578d69ea70/16/buster-slim/Dockerfile>

Database - mongo:4.4-bionic

<https://hub.docker.com/layers/amd64/mongo/4.4.0-bionic/images/sha256-ebd31eaac273a9544a33387aa859b0a8676565340a40fc824fa7bda686f462f1?context=explore>

Structure Diagram

