Deployment

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Local

To deploy this project in your local computer, you need to download Node.js firstly: https://nodejs.org/en/download/

In this project directory (same directory as server.js), some available commands and scripts can be run in a cmd prompt:

```
npm install
```

Install Node.js dependencies.

```
npm start
```

It runs the server in the development mode at http://localhost:5000. The page will reload if you save changes of your code.

```
npm run client
```

Open another cmd prompt and enter the command. It loads the client in your browser at http://localhost:3000.

Your app is deployed!

If you are unable to load the app due to some errors, please install the following scripts as well.

```
npm install openssl

npm install bootstrap

npm install react-google-login
//or npm install react-google-login --legacy-peer-deps

npm install react-facebook-login
//or npm install react-facebook-login --legacy-peer-deps
```

OpenSSL is a general-purpose cryptography library that stores some private information for HTTPS.

Packages of react-google-login and react-facebook-login are necessary for Google and Facebook login.

Heroku

How to deploy?

In the package.json, you need to define some information, scripts and dependencies. Please make sure your Node.js is v12/v14/v16, and all the listed dependencies are in single correct version.

```
{
  "name": "Team-SaltyFish",
  "version": "1.0.0",
  "description": "",
  "main": "server.js",
  "scripts": {
    "client": "npm start --prefix client",
    "client-install": "npm install --prefix client",
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "node server.js",
    "heroku-postbuild": "NPM_CONFIG_PRODUCTION=false npm install && npm run build --prefix client",
    "dev": "concurrently \"npm start\" \"npm run client\""
  },
  "engines": {
    "node": "14.17.0"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.com/UG-SaltyFish/Team-SaltyFish.git"
  },
  "homepage": ".",
  "dependencies": {
    //your dependencies
  }
}
```

After you get a Heroku account, you can run the following commands in a cmd at src/ directory.

Login Heroku with your API key.

```
heroku login
```

Create a new app with a defined name (eg. saltyfishwillgraduate) into your account.

```
heroku create saltyfishwillgraduate
```

Deploy and push to the Heroku app from local repository.

```
git push heroku master
//or git push heroku $BRANCH_NAME:master
```

Due to sensitive nature of AWS S3 credentials, you should set access key and secret key as config vars for the Heroku apps to deploy Amazon storage.

```
heroku config:set S3_ACCESS_KEY=<your access key> S3_SECRET_ACCESS_KEY=<your secret key>
```

The app loads in your browser at https://saltyfishwillgraduate.herokuapp.com .

```
heroku open
```