

BSc in Science in Computing & Multimedia Year 3, Semester 1, 2021

BACK-END WEB DEVELOPMENT

Continuous Assessment II

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Module Code: BSC30921

Assessment Type: Individual Project



FULL STACK WEB APPLICATION

GITHUB LINK: https://github.com/21565-Alessandra/21565-BEWD-CA2

For this assessment it was created a new API to be used as a back-end server. The previous API was obtaining *bands* information and the current one retains *singers'* details. A new mongoDB was built and this API counts with its own database server.

CREATE REACT APP

The react app was installed in order to build users interfaces for the pages of this applications. To install it, the following commands were used:

npx create-react-app <app-name>
cd <app-name>
npm start

Once it was installed, it is needed to type on terminal:

npm i (to install/update the packages)
npm start (to run the application)

REACT ROUTER

React Router is a standard library for routing in React. It enables the navigation among views of various components in a React Application. To install the React Router it was used the following commands on terminal:

npm install react-router-dom@6

AXIOS

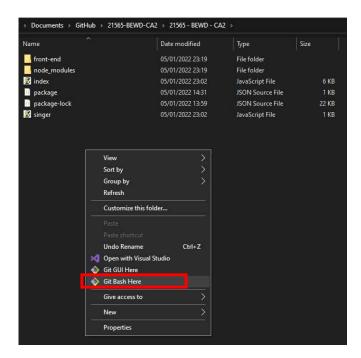
Axios is a Javascript library used to make HTTP requests from node. To install Axios it was typed on the terminal:

npm i axios



To run the application, it is necessary to also run the server individually. To make it possible the port of the back-end server can't be the same as the front-end app.

An individual terminal can be opened directly at the folder by right clicking on the folder were the files are in and then clicking at Git Bash Here.



At this terminal it was used the following commands:

```
MINGW64:/c/Users/reisa/Documents/GitHub/21565-BEWD-CA2/21565 - BEWD - C

reisa@DESKTOP-25RL5PS MINGW64 ~/Documents/GitHub/21565-BEWD-CA2/21565 - BEWD - C

A2 (master)

S npm i

npm WARN web-application@1.0.0 No repository field.

audited 77 packages in 0.825s

4 packages are looking for funding
run 'npm fund' for details

found 0 vulnerabilities

reisa@DESKTOP-25RL5PS MINGW64 ~/Documents/GitHub/21565-BEWD-CA2/21565 - BEWD - C

A2 (master)

S nodemon
[nodemon] 2.0.15
[nodemon] 2.0.15
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting 'node index is'
[Example app listening at http://localhost:3001
```



Then, at Visual Studio, in the folder were is the front-end files it was typed *npm start* and the following result was opened at the browser:



The same information was printed at the back-end terminal:

```
MINGW64:/c/Users/reisa/Documents/COLLEGE/3rd Semester/Back-End/CA...
                                                                         Example app listening at http://localhost:3001
   _id: new ObjectId("61d5b492e9c627a8df8be0c3"),
   name: 'Rihanna',
   age: 33,
   nationality: 'Barbadian',
   grammyWinner: true,
    v: 0
   _id: new ObjectId("61d5b4c6e9c627a8df8be0c6"),
   name: 'Adele',
   age: 33,
   nationality: 'English',
   grammyWinner: true,
    v: 0
   _id: new ObjectId("61d5b4f1e9c627a8df8be0c8"),
   name: 'Madonna',
   age: 63,
   nationality: 'American',
   grammyWinner: true,
```