VINTRACE TASK

INFO

Hi there, thank you for taking the time to read this. This will explain what I have done throughout the project and why specific things are the way they are.

Setup.

Both Tasks use NPM/YARN, I would recommend YARN for obvious reasons. They both also have the `start` command.

```
yarn start
```

OR

```
npm run start
```

Problems with Task 1.

Normally I would ask a few questions about the requirements of the project to really get a clear understanding of what the end product is that yo have envisioned. Though I couldn't do that with this task.

I did have a little confusion with the instructions, because they stated that you wanted a `REST API`, yet you wanted the pages styled a specific way… which would imply that they needed to be something other than the regular `JSON` or `XML` format of a REST API.

Therefor I have created both a regular REST API and what you have asked for. I did not put a whole lot of effort into the design of the webpages as, once again… you asked for `REST` … also Task2 was clearly the Frontend side of the challenge.

Apart from this, I assume the lack of information given for each endpoint was on purpose.

Here is a list of all the endpoints.

```
THE FOLLOWING ARE THE HTML SIDE OF THE REST ENDPOINTS.
http://localhost:3000/getYearBreakdown/

http://localhost:3000/getVarietyBreakdown/

http://localhost:3000/printVarietyBreakdown/

http://localhost:3000/printYearAndVarietyBreakdown/


THE FOLLOWING ARE THE REAL REST ENDPOINTS.
http://localhost:3000/api/getYearBreakdown/

http://localhost:3000/api/getVarietyBreakdown/

http://localhost:3000/api/printVarietyBreakdown/

http://localhost:3000/api/printYearAndVarietyBreakdown/
```

Code structure.

This project is setup the same way a regular Next.JS project is. The difference is I have added 3 extra directories. `data` , `routes` and `utils` .

`data` holds the 3 JSON files I was provided with to complete this task.
`routes` holds the `BaseRoute` file that uses express to create the endpoints (except the `/api/` endpoints which are generated by Next.JS)
`utils` houses the functions used on the endpoints to manipulate the data to achieve the result requested.

Problems with Task 2.

Currently I did not encounter any problems whilst developing the Frontend application for Task 2. I think I was able to meet every requirement.

I have left notes in both the `/Screen/Home/index.js` , and `/Screens/Edit/index.js` files that explains what is going on and why I have done things the way they are.

Please keep in mind that this is not a perfect example of what my UI/UX capabilities are.

A little about me

Incase you don't know my full situation I will briefly explain.

I am the Lead Frontend & Backend engineer for the `Athena` squad inside the Group Payments domain for ANZ.

My squad is a proof of concept squad. We make anything that people can think of. This includes re-designing current operational micro services, to prototype Mobile applications with cutting edge technologies… or even creating new coding languages and frameworks to be competitors to current items on the market. Eg, a new Type of GraphQL.

I have been developing applications in my spare time for the last 7 years, along with working freelance for the last 7 years. I cannot name any of my clients due to NDA's I do with every client. I have also worked for ANZ for 1 year, where I was trained to be a mentor and teacher for Frontend & Backend. (This was 4 months of training before ANZ). Though I have this experience, I still like to believe that there is much for me to learn as there is even for the most experienced people. As the saying goes, `There's more than one way to skin a cat`

> Just a little FYI too. I have dyslexia, so sometimes I make spelling mistakes. 😊

My Skills

NO SQL DB
- Mongo
- Flatfile
- Realm

SQL DB
- Oracle SQL
- MySQL
- Postgresql
- SQLite

Other DB

- Elastic Search
  - Logstash Pipelines
  - Kibana

Frameworks
- Angular
- ReactJS
- VueJS

Backend Frameworks
- Gin-Gonic (GO LANG)
- Express (NODEJS)
- SpringBoot / SpringCloud (JAVA)

```
Also developed some from scratch in the past as POC's
```

Mobile
- React Native
- Vue Native
- Native Android

Languages
- Python 2 & 3
- PHP (pure, don't know any libraries or frameworks)
- NodeJS/Javascript
- Java & JavaSpring
- C++
- GoLang
- GraphQL
- Máni
- WQL
- HTML, CSS, SASS, SCSS

Workplace
- Scrum Master
- DevOps
  - Openshift
  - Bambo & Jenkins
  - Github, GitLab, Bitbucket
  - Docker

- Journey Expert (would need to learn the new environment to take on this role)
- Senior / Lead Engineer for Frontend or Backend
- Teacher for Backend & Frontend / Mentoring younger developers

Thank you

Thank you for taking the time to read this, and to give me the opportunity to take on this task. I hope you take on any information you have read/noticed inside my codebase for the challenges, along with understand that given more time I can create much better looking interfaces and much cleaner code.