Walnut - Website Coding Task

Maximum duration: <u>3 hours</u>

You have been provided with a zip file of a simple React.js application, called Walnut. Extract it to a directory, and run it with the following:

```
npm install
npm start
```

You should see something like this in your browser (go to http://localhost:3000/):

Walnut

Name	Profession	Children	Traits
Mrs Ethel Baker	Site Foreman	Y	highagreeableness,lowneuroticism,
Mrs Florence Ferry	Air Crew	Y	lowextroversion,lowconscientiousness,
Lord Charles Candy	Midwife	Y	lowagreeableness,highextroversion,
Ms Violet Fox	Butcher	Y	lowagreeableness,highopenness,
Mrs Melinda Kerry	Teacher	N	highopenness,lowconscientiousness,
Dr Tiffany Hanks	Dentist	N	lowneuroticism,highopenness,
Mr Terrence Lyle	Fire Fighter	Y	lowextroversion,lowagreeableness,
Miss Melinda North		Y	lowneuroticism,lowextroversion,
Miss Katherine Ford	Lecturer	N	lowneuroticism,highopenness,
Miss Ethel Kerry	Personal Carer	Y	highneuroticism,lowagreeableness,

Walnut is an application which shows some information about customers, including about their personality. All the available customer data (for 250 customers) is included in the file `src/customers.json`.

Tasks

Spend up to 3 hours making improvements and additions to Walnut, with the goal of cleanly visualising the data in `customers.json`. Most importantly:

1. **Make it visually appealing** - add some CSS/SASS styling to improve the appearance of the site. You can also use icons, pictures or colours to provide visual clues to some of the data.

Also try to add at least one of the following new features:

2. **Make the customer table interactive** - at the moment, only the first 10 customers are shown. Is there a way for the user to look through more customer information without showing everything at once? Could you add more columns to the table dynamically?

3. **Show some summary data** - find graphical ways of showing summaries of the data (a pie chart? a word cloud?). Look at the other data in `customers.json` - is there anything you could visualise in an interesting way?

You can add anything to Walnut that you wish - libraries, images, fonts etc - to complete this task. You can change <u>anything</u> except the `customers.json` file.

Submission

Zip your full website up and send it back to us, along with any instructions for running it if it needs more than `npm install/start`.

You will be assessed on:

- The usability of any new features you implement
- How visually appealing the final version is
- The quality and cleanliness of your code and tests

If you want, you can also include with your submission a list of suggested features that you would add if you had additional time.

Special Note!

<u>Don't try to complete everything!</u>

Just be sure to show us enough that we can get an impression of your coding and design skills - spending hours and hours implementing dozens of features or aligning every div to be pixel perfect is unnecessary.

Have fun and if you have any questions then get in touch with us!