Eurail Coding Challenge

Contact list - React

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Requirements

Technologies

·   The assignment has to be built using React.

·   You can use regular JavaScript or TypeScript.

·   Please do not use frameworks like Bootstrap or Tailwindcss, we would like to see your own work.

Structure

●   If you need to, you can base your assignment on the attached file.

Styles

●   Feel free to use any of the latest CSS features.

Functionality

●   The functionality of your assignment should use the configuration provided on the attached file.
●   The contacts of your application have to be retrieved from http://randomuser.me API.

Browsers

·   The application has to run successfully on latest Chrome and Firefox.

Implementation Notes:

Use create-react-app

Create React App is an officially supported way to create single-page React applications. It offers a modern build setup with no configuration.

Live Version - https://codesandbox.io/s/charming-butterfly-1y1hz

Quick Start

npx create-react-app my-app

cd my-app

npm install

`yarn start` or `npm start`

Runs the app in the development mode.\

Open http://localhost:3000 to view it in the browser.

API

Created a separate file for API calls - src\api\apicalls.js. Used qs package to stringify the params passed.

Components

ContactList - ContactList component is the component which is called in the App.js. So all other components are linked to this component. This component will return the main tag and the content which is enclosed by Provider which is created in src\services\providers.js. Used for passing selectedContact to the child components

Used useEffect React Hook to the get Contact from the API call. Use the CharCode for get the Array of alphabet from number 97 to get the small

alphabets Or we can even set this in the config file. ContactItem and Card Components are used in this component.

TabHeader - This component is used to create the Tab headers with respect to the alphabet and also show the total number of the contacts in that grouped contact list.

Props
key={key}
tab={key}
count={tabs[key].length}
handleClick={() => setSelectedTab(key)}
active={key === selectedTab}

ContactItem - We are passing the contacts from the selected tab to this component with the below props and if the selected tab doesn't have any data we will show content to the user as following "No Contacts to show in the selected Tab"

Props
key={i}
contact={contact}

Card - We will pass the selected contact to the card component to the display the card with the selected contacts

Props
contact={contact}

CSS - We are not using any of the styling framework and we are following the BEM (Block Element Modifier)

Some of the example
Block - card

Element - close (card__close), display-picture (card__display-picture). Used "-" if we need to represent it with two words. "__" is used as prefix for Element
Modifier - disable state (contact__list--disabled) "--" is used as prefix for the Modifier

Theme Color

$primary-color: #003359;
$secondary-color: #f12c3e;
$tertiary-color: #ccc;

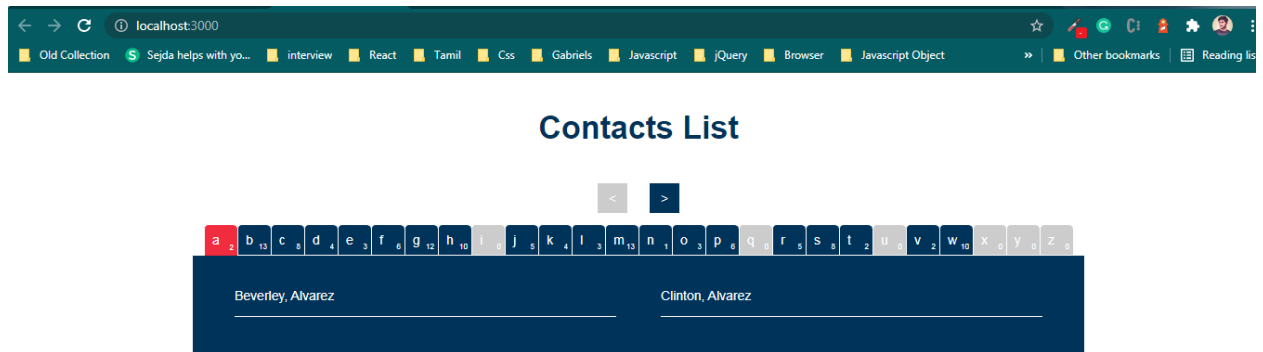## Tested Browser- Chrome and Firefox

Improvement or Enhancement -

UI improvements - Better usage of colors in the tab active and disable representation.

Dev improvement - We can improve the Tab UI in the smaller devices by showing only certain number of tabs and show other on clicking the button (In the initial load we can show 5 or 6 tabs and have a button similar like next step while clicking on the hide the current tabs and show the next side of tabs)

ScreenShots

Initial Load

No contacts to Show

localhost:3000

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Contacts List

< >

a 2 | b 13 | c 8 | d 4 | e 3 | f 8 | g 12 | h 10 | i 0 | j 5 | k 4 | l 3 | m 13 | n 1 | o 3 | p 6 | q 0 | r 5 | s 8 | t 2 | u 0 | v 2 | w 10 | x 0 | y 0 | z 0

No Contacts to show in "Q"