Poke API Writeup

Components:

1. CardContainer
2. PokeCard
3. SearchBar
4. PokeType
5. TypeFilter
6. OrderFilter
7. PokeDetail

CardContainer

Purpose:

Holds all the PokeCard components

How it works:

1. App gets a list of pokemon from an api request and sets response to pokelist
2. Pokelist is given to CardContainer as a prop
3. CardContainer does a map function on the list to generate all the PokeCard components

PokeCard

Purpose:

Displays individual pokemons in the pokelist on the home page

How it works:

1. PokeCard receives the name and url of the pokemon from CardContainer as a prop
2. Fetch the pokemon object from the api
3. Display the details of the pokemon in a card format

Others:

- Clicking on the PokeCard directs you to a route with more details on the pokemon

SearchBar

Purpose:

Used to search for individual pokemons based on name

How it works:

1. Capture input name from user
2. Calls onSearch prop from App and passes in name as the parameter
3. Function searchPoke fetches data from the api.
4. Format data properly then setPokeList

PokeType

Purpose:

Display the type of the pokemon dynamically (colour of element changes depending on the type)

How it works:

1. Takes in a type prop
2. The className of the element is changed based on the type
3. In index.css, the correct colours are then paired with the correct className

TypeFilter

Purpose:

Retrieves all the pokemon of a certain type and displays them

Modifications to PokeType:

1. Add a url prop and onclick prop
2. url: used to retrieve the type id from the api
3. onClick: runs a function to retrieve the pokemons of that type using the type id

How it works:

1. TypeFilter retrieves all possible types using an api call
2. From the list of types, use a map function to generate PokeTypes with the searchType function passed in as a prop

Order Filter

Purpose:

Order the current pokeList in ascending or descending order based on id

How it works:

1. App maintains the state of orderBy
2. App passes the state to OrderFilter as well as a function through props
3. OrderFilter sets the value of selection element based on orderBy prop
4. When selection changes, the function is used to reverse the pokeList
5. OrderFilter also has a useEffect with a dependency to orderBy so that it can be in sync whenever the pokeList is changed

PokeDetail

Purpose:

Describes the pokemon in greater detail

How it works:

1. Routing is done by clicking on the image in the poke card
2. To return to the main page, just click on the back arrow