

Made a new src folder which saves all the files

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→ Have a separate file for each component

ex → components Folder

↳ try to give of file same as component name.

We can save it as both are same

Header.js or Header.jsx

→ Now before using that component we need to
 ① Export and ② Import

Header.js

App.js

①

export default Header;

②

import Header from "/components/Header"

Hardcoded Data

↳ All the hardcoded data is saved in utils folder

utils/constants.js

utils/mockData.js ← for all json files

Exporting Multiple files (Named Export)

→ export const CDN_URL = "...";

export const LOGIN_URL = "...";

↳ while importing

import { CDN_URL } from "..."

curly braces

React is Fast because it can do faster DOM Manipulation

→ Create a button below header to update the res list
(to only have high rated (> 4.0) restaurants)

→ `<button className="filter-btn" onClick={ () => {`

`listOfRestaurants = listOfRestaurants.filter(
(res) => res.data.avgRating > 4`

(super fast DOM Manipulation)

!! React Super Power !!

Hooks

← Keeps up UI in sync with component

Whenever a state variable changes React will re-render it

↳ React has the ability to update the functions in real time using hooks. So this function can update the data.

Most-used Hooks → 1) - `useState()` → Superpower full state variable
2) - `useEffect()`

1) To use them we need to import them
(Named Import)

→ `import { useState } from "react";`

① useState → Maintains the state of variable

Pass the data of element here

Creation → `const [listOfRestaurants] = useState({})`

→ `[const [listOfRestaurants, setListOfRestaurant] = useState({...})]`

function name we will use to dynamically update this list

★ Once you create this useState Function then you need to use the list on the object you got in array `arr[0]` every where for normal viewing

React Algorithm

came in React 16

↳ It uses Reconciliation Algo also called as (React Fibre)

☞ Containers

So here's how the react work it has a virtual DOM

Virtual DOM → It is the object form of our html, css, javascript code before rendering it.

So React has a Diff Algorithm

Diff Algorithm → It is the algorithm that finds the difference between two set of code der it

So once we start a event for example in useState a new virtual Dom is created.

Then the diff Algorithm compares the old virtual DOM and New virtual Dom react will not touch the original dom till now.

After comparing it ~~then~~ renders the New virtual Dom and we are able to see it on the web page.

~~This~~ This all is done by React Fibre.