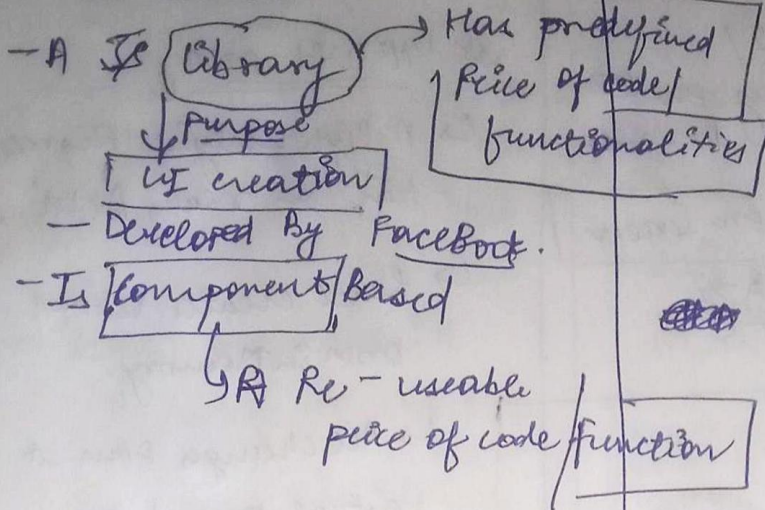


# # REACT JS ↴



## # Index.js file ↴

- first js file to be executed
- Encrypt of code / React

1

## \* Why React ↴ (Based on Declarative App.)

- Less code
- only end state telling
- Maintainability
- fast
- ↳ Readability
- Easily UI creation
- Reusability

- Based on SPA Approach

↓

Single Pg Approach

↓

only 1 HTML file

## # Setup Steps for REACT (7 steps)

- ① → Install Node JS
- ② → VS code
- ③ → create new folder → Reactfolio
- ④ → chng Directory to Reactfolio
- ⑤ → npm create-react-app demoshopapp
- ⑥ → chng Directory to demoshopapp
- ⑦ → npm start

→ "public" folder → index.html

→ "src" folder → components

use feature

for writing this in element

React web browser

→ Index.js (css) X (No Need to write manually)

→ Index.html

→ first file to execute

→ in "src" folder ↴

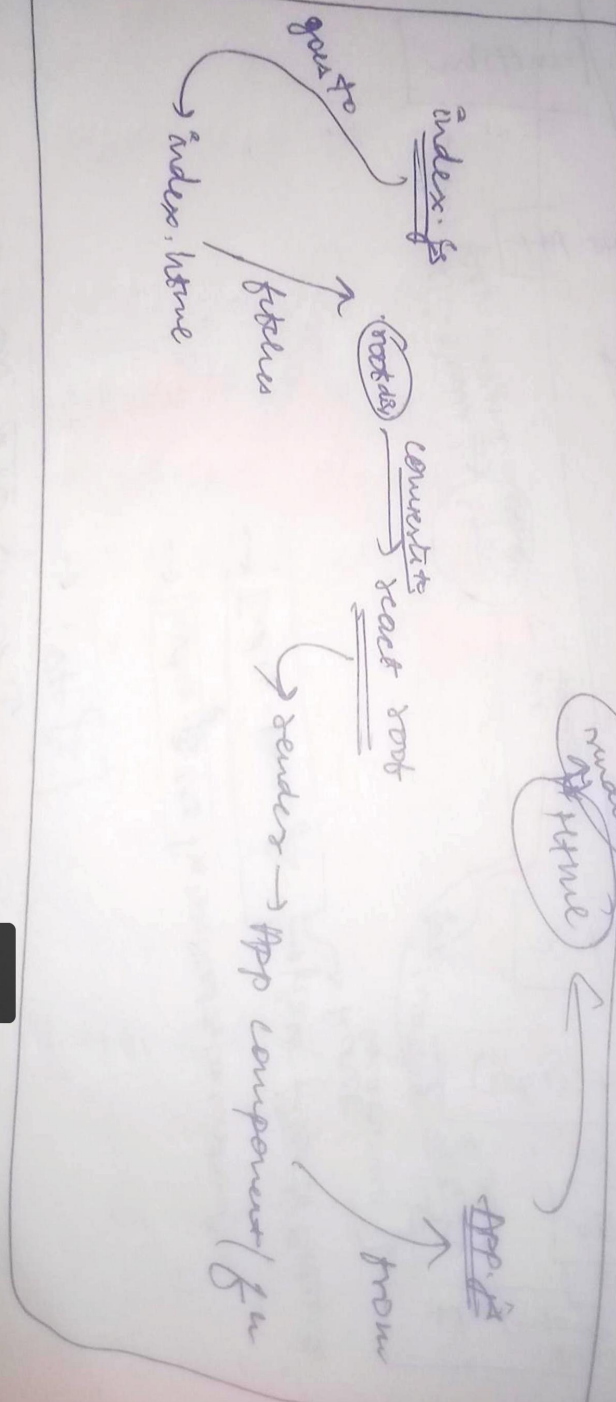
→ app.js

\* Render means showing UI/ something on ~~web~~ Browsers

Means

Code Displaying on Screen

~~JSX (or XML)~~





● React uses "Virtual DOM"

\* VIRTUAL DOM ↓

↳ A lightweight Representation of 'real DOM'.

↳ React creates virtual DOM in memory.

↳ All changes done to virtual DOM before executing on browser / browser DOM

↳ useful As ↓

React only changes what needs to be changed.

↳ Helps Eliminate ↓

Complete Re-rendering  
or

Complete Re-loading of webpage

⌘  
Allows only load new changes.

# JSX (JS XML) → (HTML code in JS)

→ JS code + HTML code  
- Is A JS Extension that  
"gives ~~HTML~~ JS  
code an HTML look."

- 'class' is a reserved  
keyword in React JS.

So, we should use

ClassName in React  
for place of "class property."

# Component JS

4

- Heart of React JS

- Provides Reusability

~~to~~ feature to React JS

- These are reusable &  
independent blocks of  
code.

- It is A JS fn Always  
starting with A  
Capital letter to differ  
from Regular fn.

- Always Returns  
JSX.

- Every React App<sup>l</sup>ic<sup>n</sup> has  
1 root component.

This Root component has  
child components

Note ↴

First letter of Every  
"Component" Must be  
Capital Always.

Syntax ↴

5

```
function <Component-name>()  
{
```

```
}
```

Note ↴

Every created ~~the~~ custom  
"Component" Must Also  
be Exported ~~Also~~ Always.



Eg ↴

~~function Item~~ <sup>Let letter Always Capital</sup>

```
function Item() {
```

```
}
```

```
export default Item;
```

# PROPS ↴ <sup>or</sup> → Data <sup>or</sup> passed to  
A component using "props".

→ Data that is passed from

A parent component

to A child component

→ Are Read-only means  
that the child component  
cannot modify the props  
that it receives.

→ Props pass Data from  
Component to Component  
in unidirectional flow  
(parent → child)