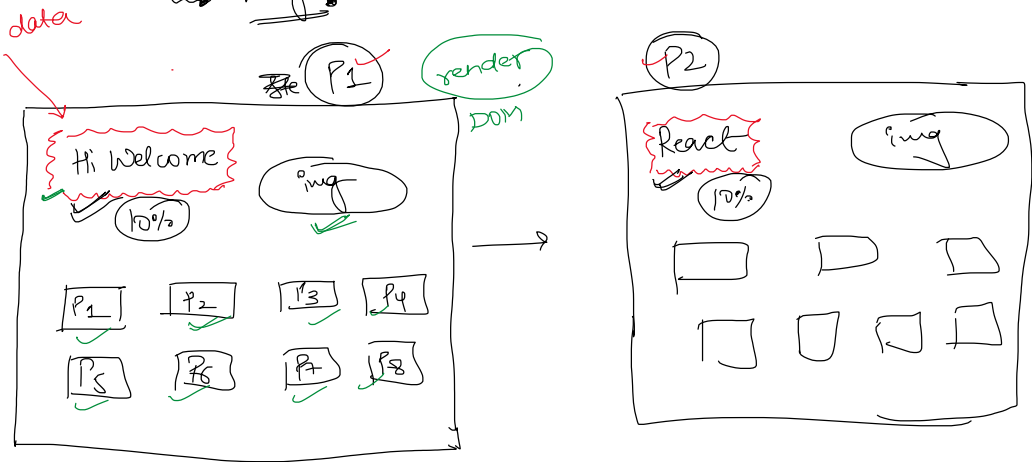


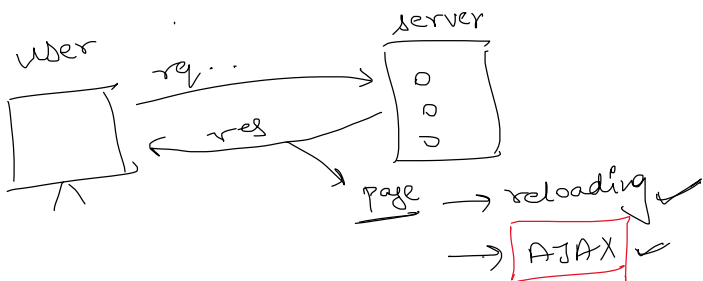
React

→ JS library

why?



What ? => JS library
Who ? => Facebook developer manage it.
Why used ? => To create UI (User interface).



→ reload → resource (server)
first
maangna

Reload hone par kya hota hai client server se resource maangta hai means complete page maangta hai jisse network call hoti hai jisse network bandwidth increase hoti hai aur application slow hoti hai.

Network call

Network bandwidth ↑
↓
Slow Application

→ AJAX (data)

→ data aaya
→ DOM manipulate

Reloading rokhne ke liye hum AJAX ka istemaal karte the jisse woh server se data lekar aayega aur usse hum DOM ki help se manipulate kar denge.

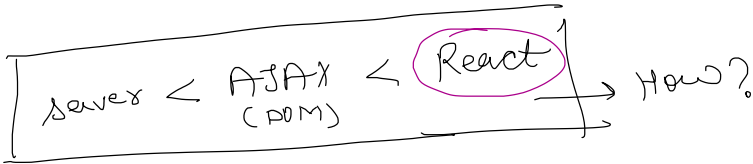
We should avoid using DOM or try to minimize its usage.

Effectively why?

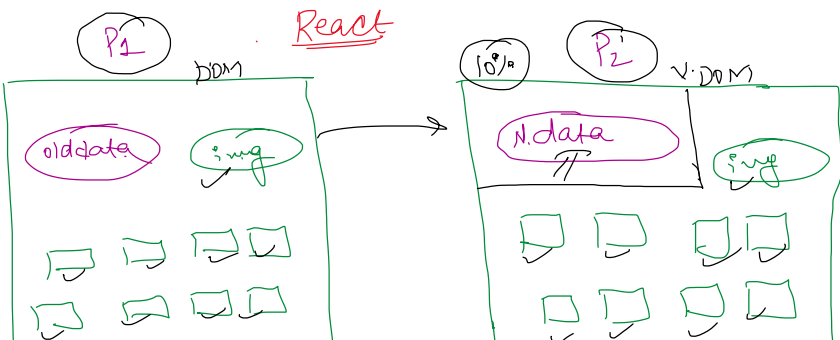
DOM is resource heavy operation

DOM hamare page ko 100% manipulate karta hai aur React keval uss portion ko change karega jaha pr data m changes ayega page pr.

which makes our application fast X



Application ko fast banana hai toh follow this sequence.



✓ Virtual DOM ✓
 → difference b/w the 2 DOMs.
 → sende karga to different wangi.

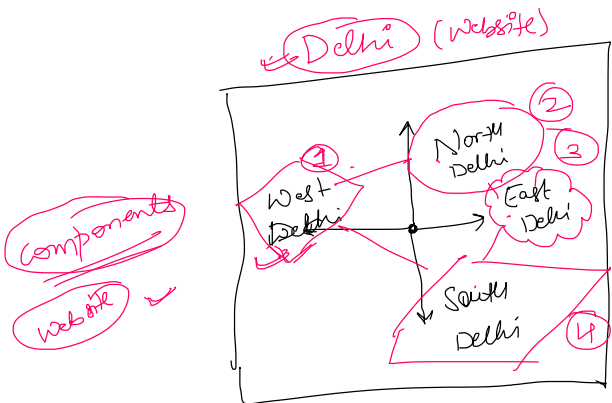
DOM

resource ↓
 { 100% DOM → slower
 10% DOM → faster ✓ (React)

React is a component based arch

? Component: kya hi sochta hai?
 → har choti se choti cheez can be a part of component.

✓ <H1> Hello </H1> Yes

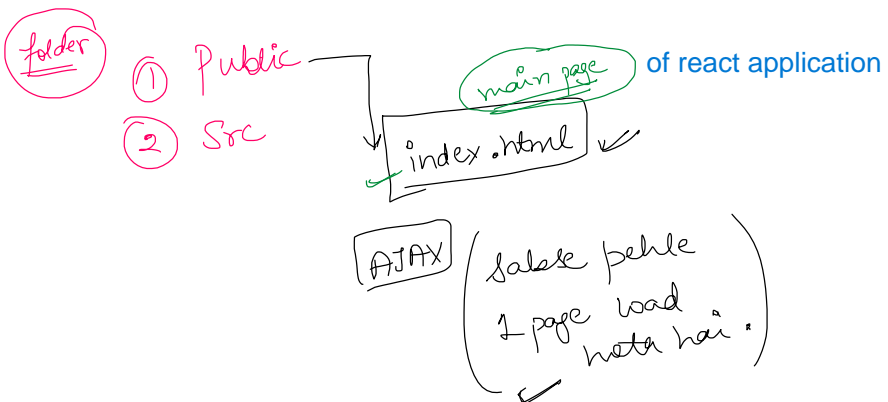


— X — X — X —
Implementation

base app → npx create-react-app first-app
 Capital Letter X

React ke app ka naam isme capital letter nahi use nahi hota.

* Backend → 8080 } default
 * frontend (React) → 3000



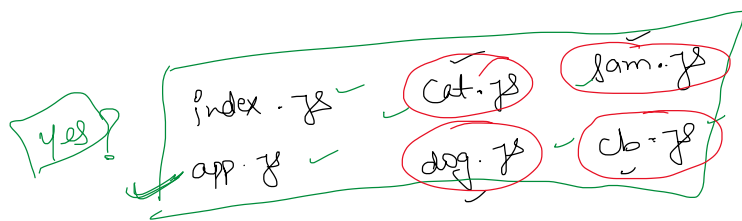
→ We never make changes in public folders. (avoid)

→ Src (source)
 ✓ ① index.js } ?
 ✓ ② App.js

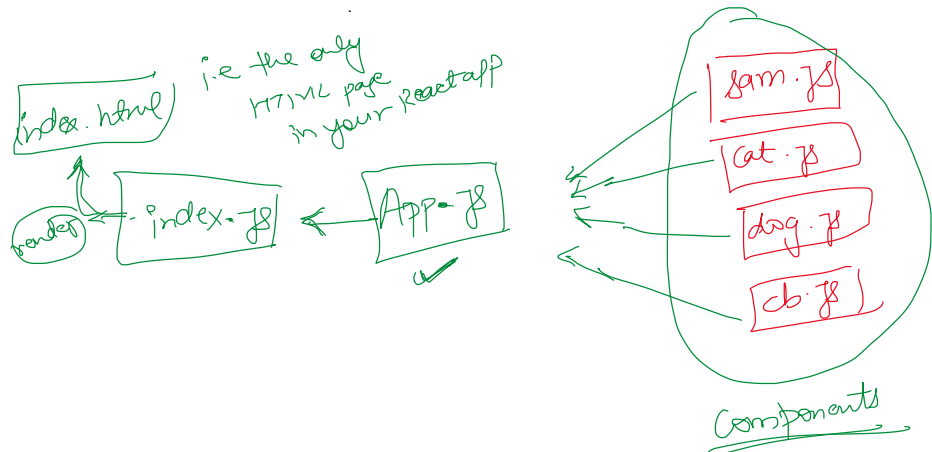
inside src folder => these files are used for testing purpose so these files are useful for us.
 1. setUp.js
 2. AppTest.js
 3. logo.svg
 4. reportWebVitals



Server ke ander main file konsi thi => app.js

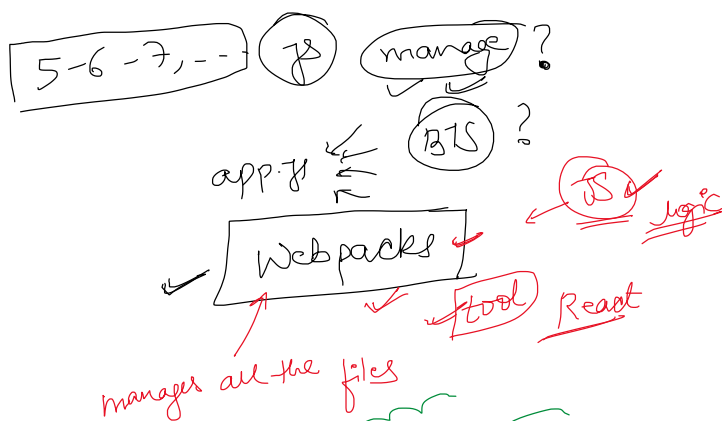


Kya src ke ander multiple js files ho sakti hai ? => Yes



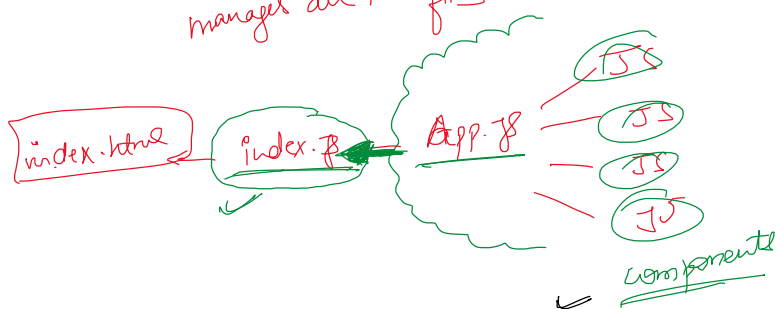
These heiracharchy are follow in React :

All components send their code to App.js file and App.js send their code to index.js file and atlast the index.js file send its code to index.html file (which is the only HTML file of React) in which the code is render to the main page or the client side.



Webpack is used to bundle all of the dependencies of a React application into a single file or a few files that can be loaded by the browser.

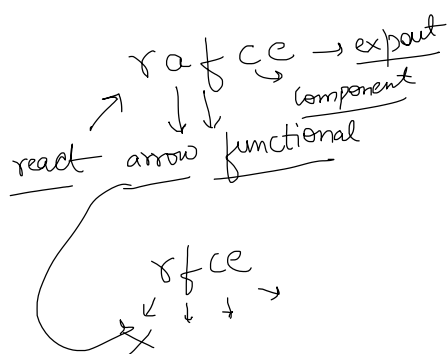
Webpack manages all the JS files which are present in React App. Webpack is by default install with the react app. Webpack are the bundlers which bundle all the JS files and manages these files effectively.



⇒ Component → tukda (piece)

① What? ② How many types?

- ① simple function jisko use kar sakte ho.
 - ② 2 types
 - class component X wj? X
 - functional component
- Hooks state manage



return ()

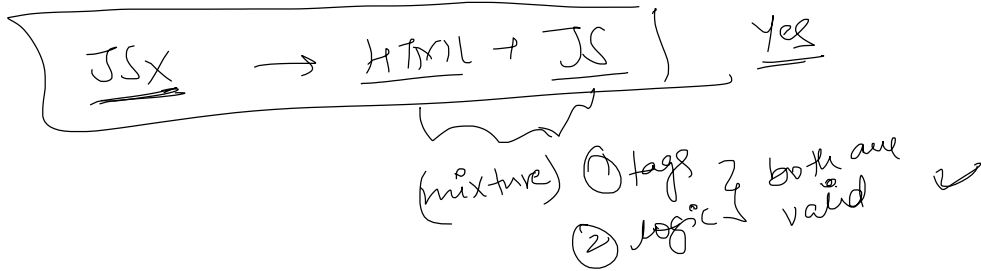
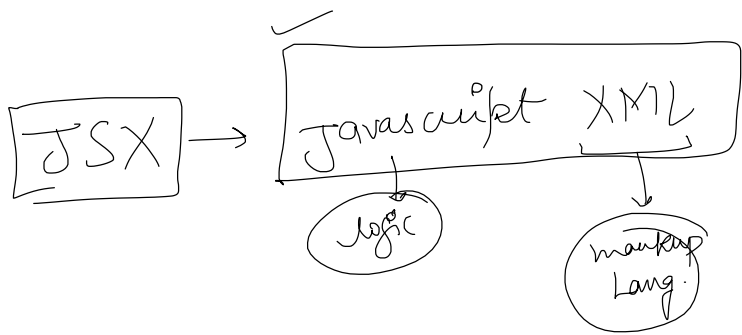
↓
it can only have 1 parent element.

< > } fragment
<|>

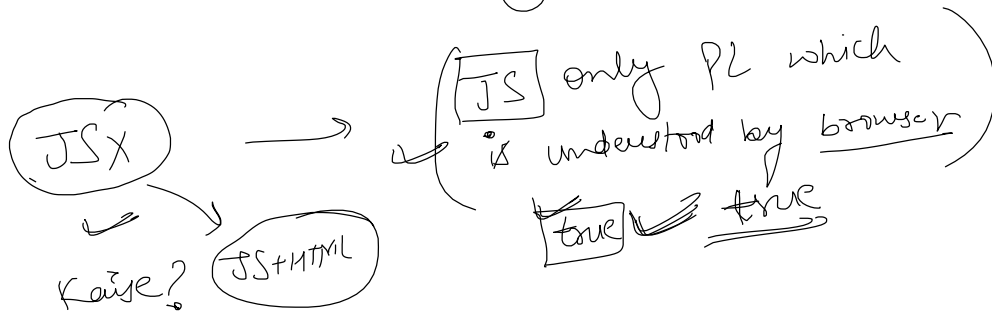
Return statement must have only single or one parent otherwise it will throw an error.

This happens due to Reconsilation in React so study about it.

<div> { any tag is valid }
</div>

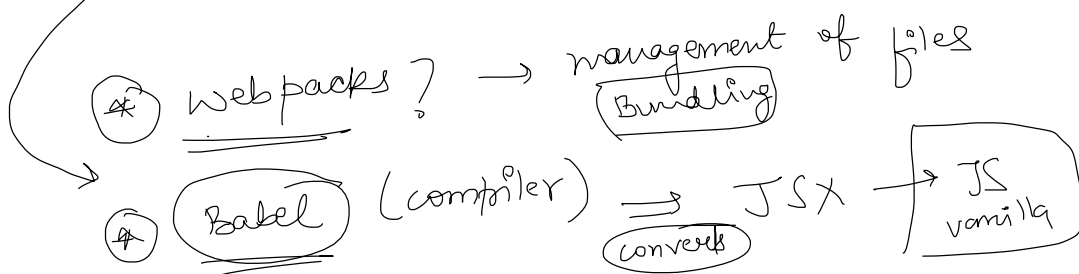
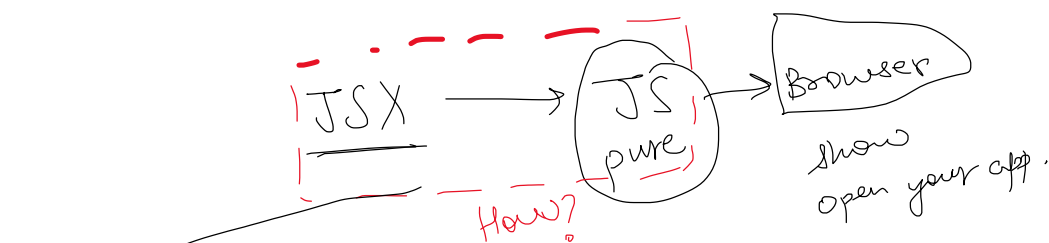


JSX is the combination of JS and HTML which means inside JSX we can use both tags (Like html) and logics (like JS).



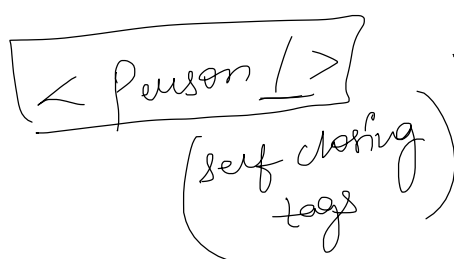
If JS is the only programming language which is understood by our browser then how our browser understand JSX ?

Babel is a JavaScript Compiler which help in converting JSX code into JS code so that our browser understand it.

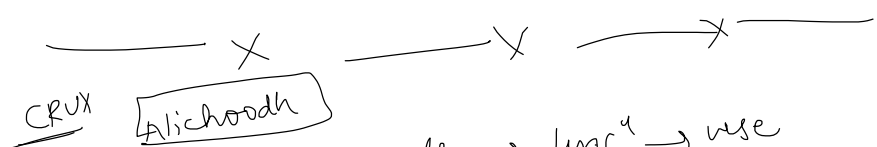


Whenever you create any component just try to give the name's initial as CAPITAL LETTER

Always remember this point.



This is the way how we can use our Components in React.
 <Person />
 <Person> </Person>
 Both ways are correct.

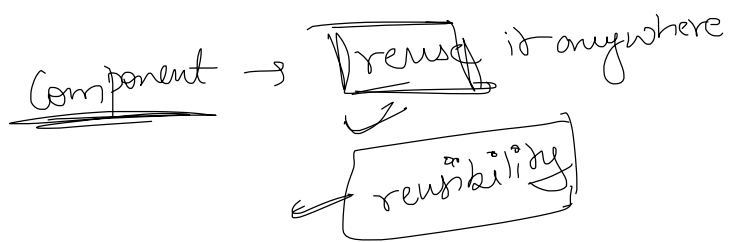


Components are the simple function which we can use it anywhere.

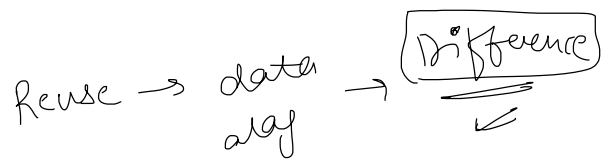
- file ka naam capital ho } No fauek
 → naho } No fauek
- (lekin export/impout that is compulsory to be capital)

- Webpacks (files manage)
- * SYNTAX over SEMANTICS *

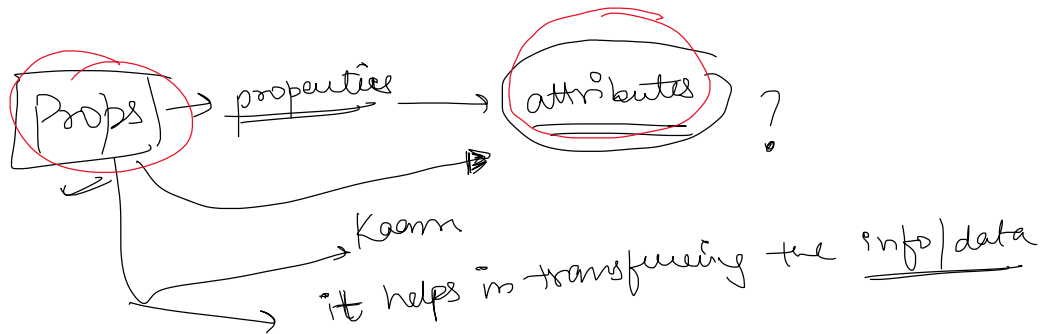
Webpack manages all the files like HTML, JS, CSS all these files are manages by react webpack.



Main advantages of using components in React.



Reuse hone ka asli advantage tabhi milega tab data change hoga => this can be achieve by Props.



Props are the attributes which helps in transferring the data to the components.

Samant 0606

Return statements ke ander hum statements ka istemaal nahi kar sakte uske ander hum expressions ka istemaal kar sakte hai.

<https://medium.com/launch-school/javascript-expressions-and-statements-4d32ac9c0e74>

for using conditional statement => Ternary operator
for using looping statement => Map method to iterate