(4) Cross-origin: - purpose of this alluibule is to share resource byom one domain to another domain, basically it is used to store CROS [CROSS Origin Resource Sharing] It checks whether it is safe to allow for sharing the resources from other domain. -> To boun move about different script types go to developer. mozill. org (MDN web Docs) EPISODE-3 Laying The Foundation 4 Pollyfill -> to make olden byoursens undenstand our new code, the now code i's converted into a older code which browser can undenstand called polly fill. -> babel do this convension automatically. E.g: - ES6 is the newer version of JS. If I'm working on 1999 browser, my browser will not understand

E.g: - ES6 is the new room belowsed will not understand on 1999 browsed, my browsed will not understand what is this const, new Promise etc.

What is this const, new Promise etc.

So, there is a suplacement code for these functionalities which is compatible with older wous on cof becomes to which is compatible with older wous on cof becomes to

→ So, this is what happen when we write browers list" -> own code is converted to older one. Babel:

- Is a Javascuipt package library used to convent

Code whiten in newer vension of Js into code that

be own in older Js engines

To sum over app, command is:

- To sum over app, command index. html

- It means we are enecuting a npm package parcel;

it give us the source file as index. html.

- We always don't have to write this command. Generally

- We always don't have to write this command. Grenerally, we build a script inside package is on which sums the Command in an easy way.

Scripts: - It is used to make nox commands more smaller ou simplen for us to stant own project in devlopment mode on in production mode.

package ison

Your own shoutcut, u "Start": " parcel index. ht ml" can name it canything.

"test": "parcel build index. html"

Script-name package name

So, to sun the project, I've to use:

npm start = npm start = npx parcelindex.ht

npm lun build = npm parcel build index.html

npm build & not work

-> It will only work, if "start" & "build" keywoords one added into scuipt with their suspective commande i.e. pauce lindex. html

<html> (head) Ltitle> </title> </head> <body> (body) Klhtml}

These are own dom elements, head, title, body.

DOM elements are nothing but the html elements.

<h1>, < footen>, <auticle>, <aside>, etc.

Note: - HTML elements are basically everything from start tag to end tag.

Render - means updating something in the DOM.

-> React elements are equivalent to DOM elements.
Const heading = React. create Element ("h1", {id: "name"}, "Hellow) Tag name Object Atteribute Children of React Element
Tag name Object Attendule Children Of Reach Element
-> React elements are just JS objects.
When we wonder it translated into him element on dom element
React dom is a Is liberary which basically allows react to interact with dom.
→ It is basically used to connect React with dom. → Used to manage dom elements:
Tt is used to evender or update react elements into dom. (React relate Element () — is creating an object.
- This object is convented into HTML code and puts it upon
-> If we want to build a big HTML Structure, then using
cueate Element ()' is not a good solution.
So, there comes introduction of JSX.
a single cdn link/file for both seast & soach
Because in load notive, React 3D ou React 700, some Because in load notive, React 3D ou React 700, some notive,
Since, react library is sususable in different places such as. seact notive, seact 3D cto.
week milling, a week of the

- That's why we keep react I want dom packages separated.

- DOM is different for mobile and desktop, that's another season why reactdom should be a different file.

-> It is a JS syntan, which is easily to create React Elements.

-> React is different and JSX is different.

> React elements can also be build without JSX; JSX is

JSX makes developer life easy.

* JSX is not html inside Js. It is HTML like syntax, it just looks like html \$XML

Const heading = C JSX

expression

L/h1>

L/h1>

Que: For whom do we write code, for humans or machines? We write code for both, but we want our code to be undenstand by any. other devoloper/human who sees our code To be then for machines.

- If we just want to write code for machine, we should be coding in binary (0 or 1), because machine understand binary.

- Our Js engine understands farascript Jsx. but it understands ECMA script i.e. the pure Js.

-> It understands all the versions of Es i.e. Ecmascript.

Jsx — is not a valid Js. Our browser uses Js engine, cannot understand this and It will give syntan every.

Then how JSX is working? code is

And— JSX code in transpiled (i.e. convented into a language

which browser understand) before it reaches the JS engine.

— Transpiling is done by "parcel". But parcel is not

doing it by itself (it's just like a manager)

<u>Babel</u>" (which is one package of pauce) do teranspilation.

4: What is Babel?

It is a JavaScript compiler. It converts the JSX to exect Cook.

i.e. JSX Converted create React Flement Converted React Element (by babel)

(by babel)

HTML manugh which is nothing but a Is Object

REACT COMPONENT

Everything is a component in React'

- There are two types of component in React.

- (a) Class Based Component It is the OLD WAY of writing Code. { It uses Javascript classes}
- (b) <u>Functional Component</u> NEW WAY of whiting code {It uses journswipt functions to create component } (

-> functional Component:

· It is just a noumal JS function which evetures some piece of JSX element.

Eg:Const HeaderComponent = () => {

vetween Lh1> Hellowould </h1>;

3;

- · for any Component, Name Starts with Captial letter
- -> How to sunder functional component?

by whiting L'Header Component /> (in this way we evended functional component)

-> There are two syntan of writing a functional component:
Syntan (1) - : Syntan (2) -
Const Heading Component = () => { Const Heading Component = () => { Letwn (h.L. class Name = "heading" > Namaste React Namaste React (h.L.); }
Note: - If we have to give attribute to "Jsx" we have to use CamelCare Jsx:-
i.e. In html:- Const heading = <h1 <="" class="400t" div="" hi="" id="heading"> JSX:- Const heading = <h1 class="" id="heading" name="head"> Hello L/h1></h1></h1>
-> Lingle line & Multiple line:-
· <u>Single line</u> when we write Jsx in single line. (Valid Jsx) -> Suppose we have to write Jsx in multiple lines we have to wrap it inside paranthesis i.e [()]
This is because babel needs to undoustand where JSX is starting & ending.

> Component Composition:
If I have to use a component inside a component. Then, it is called component composition/ Composing Components.
E.g:- Const Title = () → { Pro a functional combonant
3
eletwin-(instead of this you can write (div)
This is L < Title/> Component Composition < h2> Hello 1/h2> [3 ways of Component Composition Composition < h2> Hello 1/h2>
∠h2> Kisti ∠/h2> ② ⟨Title /> → Used generally ③ ∠Pitle /> ② ∠Pitle />
3;
* Whenever you write JSX, you can write any piece of javascrip Code blu paranthesis & ? It will work.

* JSX is very secure

- JSX makes sure your app is safe

- It does scritization.