Igniting Que App

Code which we have written till now is not the Brochelion Ready.

To make it production ready we need to do many thing.

We need to do Churkings, minifices all a bondling ele.

We need bot of other packages, libraries etc to make our production ready.

Open - It do not have any full form.

- nom manages packages but does not stand for node package manager. (It is package manager)
- All the package, libraries, of litter are there

Once we set up npm in our code, A new file will be added package. json

> Package. json is a comfiguration of for npm

Bordlers-parcel, webpacks, wheet.

We are using this in our App.

To Add package joson file . command to give interminal

Command : npm init

There are two types of dependencies / pp parkages App can have

Deve dependencies: It is generally require in development

phase even though it is not necessary

to deploy the project in a server.

(2) <u>l'aukage</u> dependencies et lees dependencies

Pers dependencies are not required to be burdled within your library. They are external modules or components that your project relies on. Pers dependencies are expected to be installed by consumer.

React and React Dom are example of it.

Inchalling Rondler & As adevelopendency we are in Halling 77.

Npm Install - D parcel.

> In Package. ison
parul on dev departement will add.

11 parcer 11 . 11 1 2.8.3"

"parcel": "~2.8.3"

pockage-lock jum => keep : the record of exact recions that country ale the dependent in - It is most imp. file

It is a kind of data have or data for those Node Modules: dependencies which our project need.

transiffue Depardencies

Our project is have dependency on paged, pared as a project has it own dependency and these dependence can have their own dependency. This is called Transitive Dependeny.

I I have package-lock. ison and protage. ison. I can receive node-modules. by just passing command in terminal "npm installe" and node module will be recreated. That's why there is no need to push node-modules in git.

Building Our App wing Pascel.

Command :- npm parcel index. html

Now our App is hasted on local Reever.

-> Just like we have npm similarly we have npre. npm used to install pockages but npx is used to install exervé parkages.

> CON links are not the good way to being React and React Dom

We have to make connection to get React let's better to have

those dependencies in mode module.

We need to update these links for the update of React as these links have seal IP what if React 19 comes.

Command to stop general React in node-makeles

Enver: Ctil to

It We Install React in node-mahules

school form of 9+ 11 npm?

Install React Dom in node-modules

Command: npmi seart-dom

After that we will get Reast and Reast dom dependencies In an price purhage Soon.

Now we remove CPN links and impost react 9n is file.

Command: 9mpost React from "seact"; - At top.

9mpost React Dom from 11 react - dom";

But It will those an error "Browner script can't have imposts or exposts!

because we have linked App. Is file In HTML file

o using geopt command so It will be treated as

browsee scripts. So we have to assign the type = "module"

< suipt type = "module" sxc = ", /App. is"> </script>.

What Does Parcel Do :-	
* It weater - Dev Build	
Local Sequer	
Allow Windy => HMR - Hot Module	
It also refreshing page Automothicaly => HMR - Hot Module Replacement	
It makes depetopment experience so smooth.	
* It watches all the files by file Islatching Algorithm	
Which is written in C++	
Which is worten in C-ft * Provide faster Builds - Caching.	
* Image Optimization * Tree Shaking - remove unu * Minification code.	e
	١.
* Bundling * Different dev and proof bundles	
* Compress	
* Consistent Hashing	
* Code Splitting	
* Differential Bundling - suppost older Boowser.	
* Diagnostie	
* Good Error Hardling, Botter Euor Suggestion.	
* Parcel can also gives a way to host one copp on HTTPS	
* Parcel can also gives a way to host one opp on HTTPs right now It hosting on http.	
Learns more at Parcelis.org	

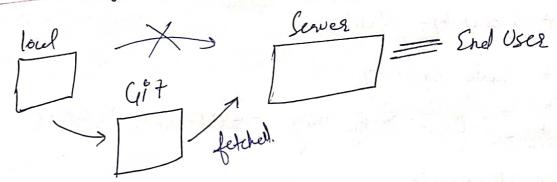
Command: npre parcel build inder html.

but 9t throw an esser because We have also provide an entry point in package ison.
So delete from there "rowin": "App.je"

It compress 3 main files html, cos, is
All the codes her in these 3 files. These these file are
production ready fotos. code.

This production build is teighter optimized builds which we can push to the production and can serve to the user. It will be fast, performant, optimized.

A dist on, parcel-coche and node-modules are natreades they can be auto generately



How to Make App Browser Specific

How to Make App Browser Specific

THE tork carray of browser list

"last 2 versions"

in Package ison.

To the ck usercareag go brasserlist. der

Laying the Foundation	1. 19
- 1 - to son the project we are using command	: npr pascel Inde
Till now to ron the project we are using command of is lengthy and not the industry standard.	
Scripts We will now use the scripts. In package is on write script command as	file we can
write script command as	
"start": " parcel index. html"	
"Lest": "jest"	All In the
To Run the Scripts	
(annord! (npm run start or npm start	of ut only for sta
(1) ripso) our build	

Note: In industry if you don't know how to for start and build the ck fir package. I son file and rearch for start and build

React Create Element -> React Clement - JS Object => HTML Element (render)

JSX

* Javascript Jynten to write HTML Tags

* J(X is not the pout of React, Wascan write React using JSX and without JSX as well , but JSX moties developed life say.

Or Creating elements using React create Element is difficult.

[Const jsxHeading = < h1> Nomente React using Tex </h1>) JEX ISOA HIMLIN Javascript,

JIX HTML like or XML-like Syntax.

Meant Domont

Const j8x Heading = < h1 H = "heading" > Nomuste React using J8x </ st);

It is not a propose IS and does not videostable for I rengine.
Is engine under ctand "echina script" language.

This Code is transpiled by parcel using babel package's before going to Is engine and makes It under stable for Is engine.

* JSX > React. c'reate Element > React Element - Is object > HTML climent (Reider) bobel transpiles this

7 Robel is a Townshipt Compiler Learn more of the babelis.

In JSX INC give class wing Class Name not by only class.

Const jox Heading = < hI classiflame = " head" - tob Index = " 1" > Normante React

using JSA </hr>
/

** In JSX we use Camel Case for 11 of they odtabate not is come

of HTML.

Ty we have to write this JIX In one line then it is not mandatory to have paranthesis but if we need to write in onceriple lines then it is mandatory to have a) for bobel to understand where JSX shorts and ends.

React Component

There are two ways of creating Rear Romponent.

- 1 Class Raved Component Old May
- (2) functional Component New way

functional Component is a normal Is finition, which returns some JSX code.

a Note! - Alleays Name of finctional component should start wife,
Capital letter

const Heading Component = () => {

return <h1> Normarte React functional Component </h1>
}',

Au to Is we can also write

const Haading Component = () => h1> Namuste React functional component </h1>

K Parm theirs If we write class name or any ottobale Const Headly Company = () => (
 Nomeste Rout findingel Componers </h1>. How to Rende Read functional Component. not. render (< Heading Component />); not. render (Anading)!

method of returning Read Clement. Component Composition Composing one component to other Const Title = () > (<h1 class Name="head"> Namate React Using ICX Const Heading Component = 0 ⇒ C top <ain id = "centagner"> All the wok will come here <TPHe/> < We canalso write as < h2 class Name = "heading"> Namask Read Functional Component < title> </title> </12> > < /Liv > {Title()} As Read Component is Normal Is for I'm

In Component creating we can also use normal functions instead of accordination. But Arrow functions are industry standard.

In JSX by using {} - curly Brockets INC can put any JS cade and Pt will come as HTMC.

React element is provided or restable by using { } we can Inject React Element Inside React Component.

Const elem = < span> React Element </ span>

So, the can compose anything inside anything.

JSX toke are of Cross Sight Sceipting Attack

Suppose if clem i taking date from API and API send malicious date to any piece of cale is son is the bourses and can be attacked by ottacker.

So. const elem = api.getDate(1)

JSX Will take coei of it You can son any thing inside & }

We can also case function in React Comparant.

At React Component is also a Normal 5- finding the so we can also do component composition by Cally it as a funding

=> { Title()} <Title/> <Title></Title>

Cade is Readable because of JSX.