**Very Very Rough Notes as I copied from notepad that so bear,**

Single page applications ko bnany wali js library hy. it is a UI Library. Maintained through Facebook.

Single Page Applications are those that are loaded once. All the other work done through java script like navigate from one page to another.

kam se kam javascript likhien gy or code organize rhy ga.

Write once use it everywhere.

create react App:

It is a package that setup a basic react App.

npm:

Ye ik package manager hy.

node js me packages install krny me madad krta hy.

React k components ko src k andr daala jata hy.

entry point:

src -->index.js

App.js --> Component

Components could be function based

or class based.

https://www.codewithharry.com/blogpost/html-cheatsheet/

https://www.codewithharry.com/blogpost/css-cheatsheet/

https://www.codewithharry.com/blogpost/javascript-cheatsheet/

jsx ==> it is HTML which masks Js

unified form me sari cheezien aik jgha rhiengi to wo sab se axha user experience rhy ga.

class ki jgha className likhna prta hy ku k class java script me reserve key word hy.

react prefers camelCase.

react k andr ap agr jsx use kr rhy ho to apko srf aik hi tag return karna hy.

<> </> ==> jsx fragment ==> return wale tag se phly agr likhna hy kch to ye use krna pry ga.

how a website works:

client ==> request --- awais.com ----> Server

< --------HTML+CSS +JS <----Server

SPA:

client ==> request --- awais.com ----> Server

< --------HTML+CSS +JS <----Server

iske baad phr js control kry gi website ko k ab jhn jhn click ho to kya ho.

public folder:

publicaly available hingi ye files jab ap build kriengy apni is app ko.

React is a client side javascript framework

**Javascript Basics must know:**

* Data Structures , Loops , Functions etc.
* The DOM
* For each , map , filter , reduce
* Arrow function
* Async prog, and fetch Api
* Npm , axios

**Why React:**

* Organization
* Reusable
* Flexibility
* Popularity and support
* Performance

 //     React.createElement(

    //         'div',

    //       {className:'container'} ,

    //     React.createElement ('h1', {} , 'my App')

    //     )

function Header(prop ka name yaad hy to directly likh skty hein)

<h2>{phr yahan resolve b woi kr lo jo prop ka naam hy}</h2>

Jsx wali file me below the function default props bhi set kiye jaa skty hein:

Header.defaultProps = {

text : ‘prop name’,

}

Agr koi prop set ni hoga to default se aa jyega

Below the function hi prop types b set kiye jaa skty hein.

|  |  |
| --- | --- |
|  |  |
| impt | Prop types import ho jiengi |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

State:

State bs data hy

Component level

Just associated with components

or

app level state

multiple components me use ho skti hein

steps:

1. Components k folder me apna component bnao jsx extension k sath
2. Baad me usko App.js me import kr do

Hooks:

Hooks hmesha keyword “use” se strt hongi.

 // const handleClick = () =>{

    //     setRating((prev) =>{

    //         console.log(prev)

    //         return prev + 1

    //     })

 <button onClick ={handleClick}>

        Click

      </button>

Web me client side programming language hy

variable bnany k 3 trike hein

var,const,let

datatypes

numbers,objects,strings,booleans,undefined,null

call back funxtions:

wo funxtion jo tab execute hota hy jab koi aik kaam already hogya ho.

**Clean Notes Starts From Next Page:**

**Props:**

Ye properties ki short form hy. Aik custom component ko me kuch cheezien bhej sakta hoon jo wo use kar saki hy apne andar.

Apne aik component bnaya ab ap us component k andr kch cheezien pass krna chaty ho.

Ap kehty hein k ye aik component hy is component k andr kuch variables hein jo mein btaounga to ye props hein

Props hoti hein properties hum aik component ko pass kr skty hein wo properties or un properties ki madad se wo component apnea p ko render kry ga.

**Prop types:**

Import at the top firstly. Shortcut is given in shortcuts heading.

Write below the function of Component

ComponentName.proptypes = {

Prop jo App.js me Component k agy likha tha : proptype,

}

Default:

ComponentName.defaultprops = {

Prop jo App.js me Component k agy likha tha : “set here”,

}

**State:**

Jo bhi component ap bnaty ho uski aik state hoti hy. State matlab us component ki stage. Kahin us component me koi content rkha hua hy or ap usko as a variable rakhna chahty ho taa k jese jese wo variable update ho to jhn jhn wo use hua hy variable wahan wahan changes ho jein.

Props ko ap pass krty ho kisi component me or apka component us hisab se render ho jata hy jab k state apke component ko belong krti hy

**React Hooks:**

**Shortcuts:**

* Rfc 🡪 react function base component bn jyega is se
* Impt 🡪 import proptypes
* Pts 🡪 proptype.string

**Java script Knowledge:**

**Exports:**

1. Export default
2. Export by name