

- () JS Libbary created by facebook.
- O Used for coeating UI (Usen-Interface)
- O let's you dévide complex UI into small/isolated pieces of code called Components.
- Components: Independent & reusable piece of code. Same as JS functions but work in isolation and return HTML.
 - (1) Compose Class Based
 - 1 Com Function Based

TWHY REACT?

O Js is bosed on imperative approach (step by step)

Fetch An element, style it, fill content, append it.

But In React we just need to tell END state & React ! U do it by itself.

React is Based on Declarative Approach. So, we need to write less code.

- we can create wer App Quickly & efficiently with than vanilla Js.
- · React follows ST SPA approach.

Single Page Application - SPA

load Single HTML file & modify it dynamically.

React Alternatives:-

L> Angulas L> Vue

- · Readability
- O DRY (Don't Repeat Yourself) principle
- O Reusability
- O SOC (seperation of Concern)
- O Maintainability

modular Code - Divide the Code into seperate Components.

We can say components are Custom HTML Elements which we can impost in indexijs & then use it.

SETUP REACT

WAY = 1)

Step-1) Install VS CODE & node JS

Step-2) Create a new folder -> React Folio

Step-3) Change directory to -> React Folio

Step-4) npx create-neact-app project name

Step-5) Change Directory to -> project name

Step-5) Change Directory to -> project name

Step-6) npm start or npm own start

WAY =) 2) Use Replit (online website for creating projects)

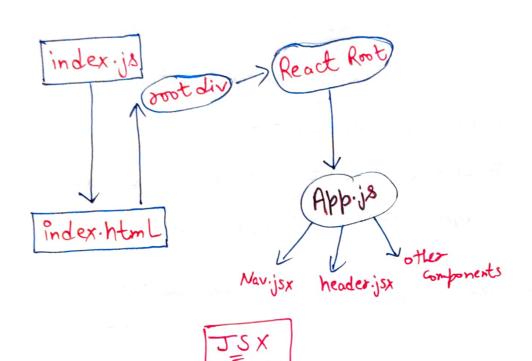
WAY => 3.) Clone react-tailcoind-css-starter-pack Repository from Github.

package. json - has project Dependencies, scripts and all info about the Project.

Sorc) index.js - Entry point in React Application. itcalls React DOM. sender()

Snc > App. js - Root Component

node-modules - has all the Required Packages. public) index. Html - Single & Main HTML file. it's Size is very large. It can be easily created using a command.



JavaScorpt XML

Syntax Extension To Js.

Allow us to write HTML Code in Js.

const name = "Himanshu"

(h1) Usen: Inamely (/h1)

```
Snc ) Components) User Data isx
            export function User Data (props)
                         return (
                             (d/v)
                               Lhi) [propo name 4 (h1)
                               (p) of props.day y - of props. month } -
                                                 of poops. yeary (1P)
                            Sonc > App.jsx
              import user from \./component/UserData;
            export function App() }
                    const response = [ Array of objects
                                I name: "Himanshu",
                                 day: 1,
                                month: 11,
                                 year: 1999 y,
                               \frac{d}{d} = \frac{1}{3}
               return (

KUsen name = { response(0). name}
                                  day = [nesponse[o].day]>
                          (luser));
```

Prop :- O properties oprops are the agreements passed into React Components. are like func. adjuments in Js. & attributes in HTML If you put content inside opening & classing tag of component invoking, like this. (Card) 20ser -> <1> Hello world It will not be displayed on the Brown. But we can do it with. props. children function Card (props) { network (fprops. childreny * Props are read-only objects containing values of attributes

2

Concepts Learned:

- 1 Cose Syntax
- 2 Setup React
- JSX
- (4.) Component
- (5) Props Deal with Data
- 6 props. children
- To props. className H.W
- O Props in React is used to pass Data from one component to another (Parent component to Child components.