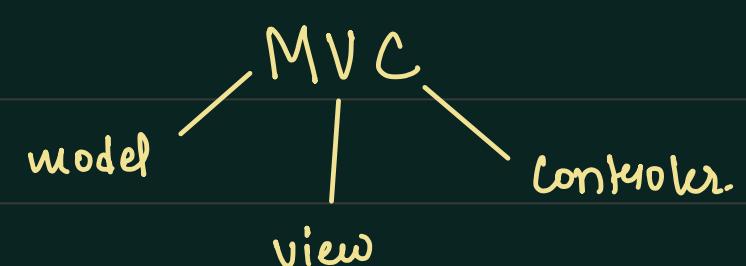


React.JS

● react learning :-

1. react.js se code karna.
2. react.js ka interview crack karna.



→ React.JS learn what matters

What?

why? :- why company want : to make Front-end manageable / light-weight / efficient.

how? :- create components, & make data if you need it, link the data & change data if you want, react will react jab bhi data change hoga

when? :- jab aapko ek thoda bade level par app create karna ho, jisme khoob sari chijein ho rahi ho, and khoob sara un-useable components structure hai.

code karna ki jagah banana.

code chalao ki jagah banana.

code chalana

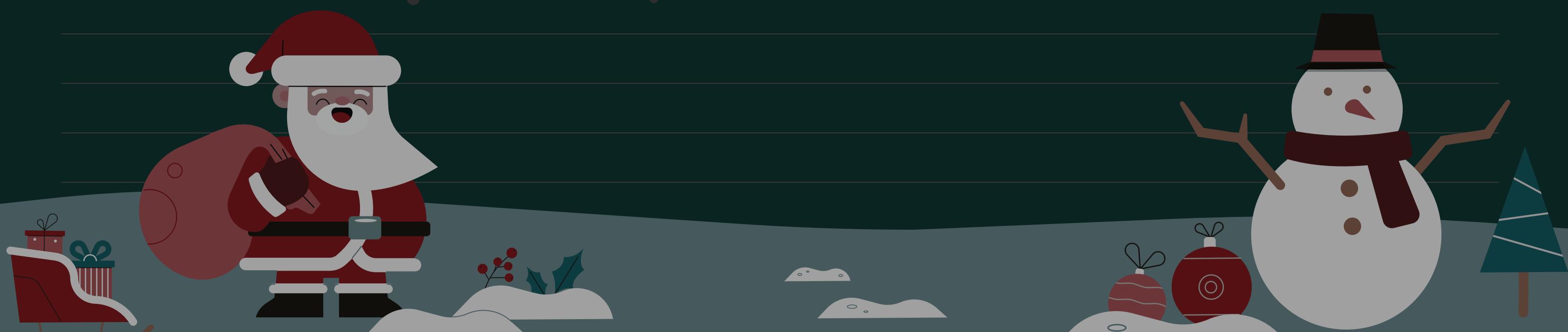
output dikhana

Styling karna react mei.

* What? :- React IS A JavaScript Library to maintain the Front end efficiently

Faubook ko problem hajur aai ki real-time main wo notifications and reactions ko show nahi kar pahe hai, unhi reactions, notifications and other data deliver karne mai page reload karna pd maha tha, and wo isliye they were using something called "PHP", ab is problem ko solve karne kai liye 2013 mai ek FB K engineer ne ik library bnai ye library khaas thi, kyonki ye data ko real-time mai dikha pahe mali thi, par is library ke kaam karne ka tareka alag tha, kyonki ye main DOM-tuu ko update nahi krta hai directly, matlab ki agar page mein kuch bhi change hua to directly main DOM tuu update nahi hogा, is library ka khud ka ek DOM tuu hai uska naam hai "Virtual DOM", ye DOM tuu exact copy hai main DOM-tuu ka, bus ek differetu hai, wo hai ki jab bhi virtual DOM mai kuch change hogा to sirf use change kiya jayegaa jo ki change hua hai, na ki pura tuu.

note: Browser ka nature hota hai ki age page pe koi change kro to pura DOM-tuu refresh hota hai jiski vjhna se poora page refresh hoga or ye bhaat hi inefficient hai, jiski vjhna se browser crash ho skta hai



* Features :

React.JS

1. very very very less page re-load.
2. Extreme use of reusable components.
3. very efficient & extremely scalable (bhartiya opportunities hai).

CODE:-

→ main Coding mai Sarai Code khudse hain likhna pata hai, main walo ne aapko ek tool diya hai uska naam hai create-react-app.

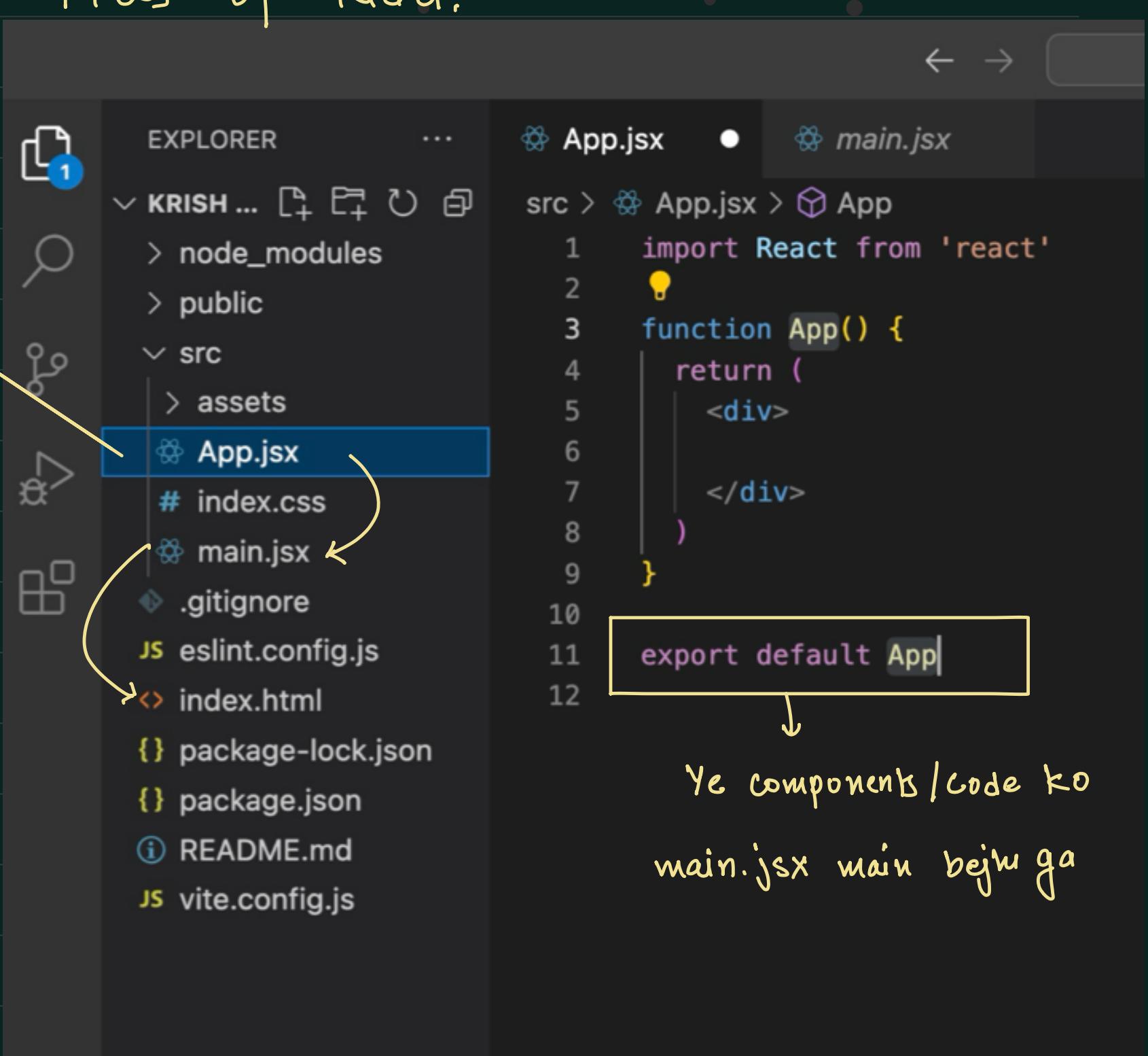
but we are using,
"Vite"

1. vite install kro
2. vite se naya app bnao.

* Lets understand the Basic Files of React.

Components present honge yahan

Components: Funcⁿ jo JSX return kare.



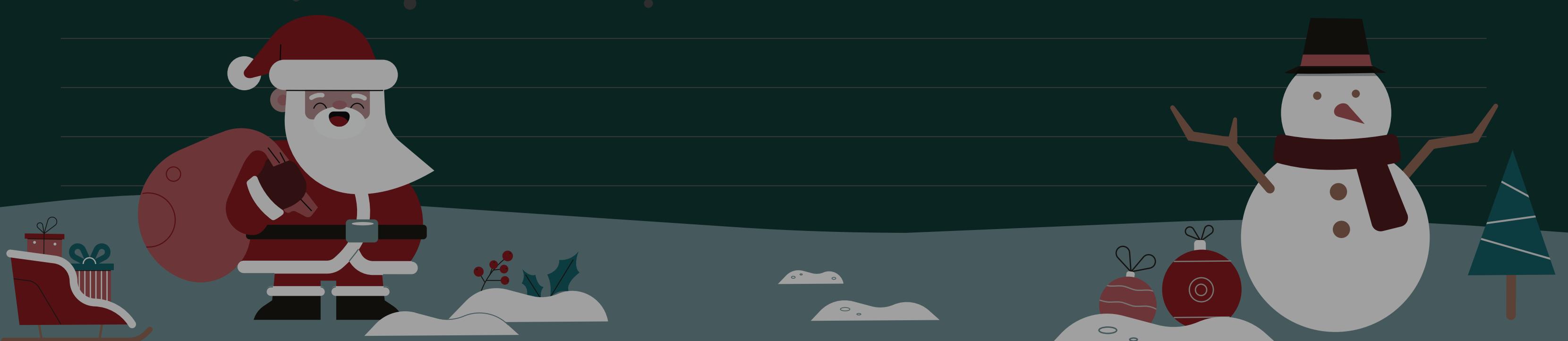
The screenshot shows a code editor interface with the following details:

- EXPLORER:** Shows the project structure:
 - KRISH...
 - node_modules
 - public
 - src
 - assets
 - App.jsx (selected)
 - # index.css
 - main.jsx
 - .gitignore
 - eslint.config.js
 - index.html
 - package-lock.json
 - package.json
 - README.md
 - vite.config.js
- App.jsx:** The selected file contains the following code:

```
1 import React from 'react'
2
3 function App() {
4   return (
5     <div>
6       </div>
7   )
8 }
9
10
11 export default App
```
- main.jsx:** A file listed in the Explorer panel.

A yellow arrow points from the text "Components present honge yahan" to the "App.jsx" file in the Explorer panel. Another yellow arrow points from the text "Components: Funcⁿ jo JSX return kare." to the same "App.jsx" file.

Below the code editor, handwritten text reads: "Ye components/code ko main.jsx main bejh ga".



→ React:

so react ka naam react us liye hai kyonki vo react kanti hota jb bhi state change hoti hai, aur yahi uska main model hai,

Lets Do "Component mai Reaction of Data":

```
src > App.jsx > App
1 import React, { useState } from 'react'
2 import Product from './Product';
3
4
5
6 function App() {
7   const [a, b] = useState[0];
8   return (
9     <div className="w-full h-screen bg-zinc-900 text-white p-5 text-xl">
10      <h1>{a}</h1> → React karo ga jb state change hogi.
11      <button onClick={() => b(a+1)} className='px-3 py-1 bg-green-500 rounded-md text-sm hover:bg-green-700'>Click</button>
12
13      <Product />
14    </div>
15  )
16}
17
18
19
20 export default App
21
```

"useState" is a hook to add state to a functional component
"useState(0)" → initializes a state variable with default value "0".
→ It returns an array with 2 elements.
• The current state value "a" in this case.
• A func to update the state (b in this case).

"on click state is changed"

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

3:12:32 PM [vite] (client) hmr update /src/App.jsx, /src/index.css (x10)

Ln 7, Col 28 Spaces: 2 UTF-8 LF JavaScript JSX Go Live Prettier

Components mai data benign or keune karva.