Get Started with React APP:

1. npx create-react-app
2. vite
3. next js

it manages a webpack config( a module bundler that that combines all js,css and html code into a single file for browser)

**React Components:** can be class based or functional compoentst

**JSX:**

**Props:** If prop value changes, react reacts and update the UI (Re-renders components using virtual DOM)

* Props (object) destructuring
* Props drilling
* One way flow
* State lifting

**Conditional Rendering:** ternary , and operator

**Loops:** use map, can’t use for loop

1. **State:**

Hook – useState()

const [count,setCount]=useState(0)

count- readonly

setCount- write

for working with Array or Object like-> const [data,setData]=useState({1:’hamim’,2:’hamim2’}

writing function like setData(data[1]=’nam nai’) will completely overwrite the state. In this case you want to use spread operator. Like setData({…data,1:’nam nai’})

1. **Events:**

signal that some kind of interaction has happened.

In JS we used to add event listener on an element then then write even handler function to write the event’s effect. In react write “on” on the component and you will get a list of potential events. Most common one is onClick. Write an event handler function on the write side that by default takes event as an argument.

1. **Context API:**

**<Provider>**

**<Child/>**

**</Provider>**

**Step 1:** create data and pass it to createContext

const CountContext=createContext(data)

Step 2: share the context .. usually at the global level to share across the entire app