

React Basics – Step by Step (Hinglish Notes)

1 React kya hai?

- React ek **JavaScript library** hai
 - UI (User Interface) banane ke liye use hoti hai
 - Single Page Application (SPA) banane me help karti hai
 - Facebook (Meta) ne develop ki hai
-

2 React use kyu karte hain?

- Fast rendering (Virtual DOM use hota hai)
 - Component based structure
 - Reusable code
 - Easy to maintain
 - Large community support
-

3 React chalane ke liye kya chahiye?

System Requirements:

- Laptop / PC

- Internet
- Basic HTML, CSS, JavaScript knowledge

Software Requirements:

- **Node.js** install hona chahiye
 - **npm** (Node Package Manager)
 - Code Editor → **VS Code** (Recommended)
 - Browser → Chrome
-

4 Node.js install kaise check kare?

Terminal / Command Prompt me likho:

```
node -v  
npm -v
```

Agar version show ho jaye → Node installed hai 

5 React Project banane ka Best Method (Vite)

Step 1: Terminal open karo

- Windows → Command Prompt / PowerShell
 - Mac/Linux → Terminal
-

Step 2: Vite command run karo

```
npm create vite@latest
```

Step 3: Project name do

- Name **small letters** me rakho
- Example: `myreactapp`

Step 4: Framework select karo

- Arrow keys se **React** choose karo
- Enter press karo

Step 5: Language select karo

- **JavaScript** choose karo
(*Beginners ke liye JS better hota hai*)

Step 6: Project folder me jao

`cd myreactapp`

Step 7: Dependencies install karo

`npm install`

➡ `node_modules` folder ban jayega

Step 8: React app start karo

```
npm run dev
```

Step 9: Browser me open karo

Terminal me URL milega jaise:

```
http://localhost:5173
```

➡ Isse browser me open karo

6 Project Folder Structure (Basic)

```
myreactapp
|
├─ node_modules
├─ public
├─ src
|   ├─ App.jsx
|   ├─ main.jsx
|   └─ index.css
|
├─ package.json
└─ vite.config.js
```

7 Important Files ka use

- ◆ **main.jsx**
 - React app ka **entry point**
 - App component ko render karta hai
-

◆ App.jsx

- Main component
- Yahin se UI banana start hota hai

Example:

```
function App() {  
  return (  
    <h1>Hello React</h1>  
  )  
}  
  
export default App
```

8 Component kya hota hai?

- Component ek **function** hota hai
- UI ka ek part hota hai
- Reusable hota hai

Example:

```
function Header() {  
  return <h2>Welcome</h2>  
}
```

9 JSX kya hai?

- JavaScript + HTML ka mix
- React me HTML jaisa code likhte hain

Example:

```
const name = "Rahul";  
  
return <h1>Hello {name}</h1>;
```

10 React me rules yaad rakho

- Component ka naam **Capital letter** se start hoga
 - Ek component ek hi parent element return karega
 - `class` ki jagah `className` use hota hai
-

11 CSS kaise lagate hain?

Normal CSS:

```
import "./App.css";
```

12 React me Props kya hote hain?

- Data pass karne ke liye use hote hain
- Parent → Child

Example:

```
function Student(props) {  
  return <h2>{props.name}</h2>;  
}
```

13 State kya hota hai?

- Dynamic data ke liye
- `useState` hook use hota hai

Example:

```
import { useState } from "react";  
  
const [count, setCount] = useState(0);
```

14 Event handling

Example:

```
<button onClick={handleClick}>Click</button>
```

15 React me common commands

```
npm run dev    → project start  
npm install    → packages install  
npm install axios → package install
```

16 React seekhne ka flow (Beginner)

1. HTML
2. CSS
3. JavaScript
4. React Basics

5. Components

6. Props

7. State

8. Hooks

9. API calling

10. Project