



# React Basics – Step by Step (Hinglish Notes)

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## 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
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## 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
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## 4 Node.js install kaise check kare?

Terminal / Command Prompt me likho:

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

Agar version show ho jaye → Node installed hai ✓

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## 5 React Project banane ka Best Method (Vite)

### Step 1: Terminal open karo

- Windows → Command Prompt / PowerShell
  - Mac/Linux → Terminal
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### Step 2: Vite command run karo

```
npm create vite@latest
```

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### 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
```

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### Step 7: Dependencies install karo

```
npm install
```

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→ `node_modules` folder ban jayega

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### Step 8: React app start karo

```
npm run dev
```

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## Step 9: Browser me open karo

Terminal me URL milega jaise:

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

→ Isse browser me open karo

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## 6 Project Folder Structure (Basic)

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

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## 7 Important Files ka use

### ◆ main.jsx

- React app ka **entry point**
  - App component ko render karta hai
-

## ◆ App.jsx

- Main component
- Yahan se UI banana start hota hai

Example:

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

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## 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>  
}
```

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## 9 JSX kya hai?

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

Example:

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

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## 10 React me rules yaad rakho

- Component ka naam **Capital letter** se start hogा
  - Ek component ek hi parent element return karega
  - `class` ki jagah `className` use hota hai
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## 11 CSS kaise lagate hain?

**Normal CSS:**

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

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## 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>;  
}
```

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## **13 State kya hota hai?**

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

Example:

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

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## **14 Event handling**

Example:

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

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## **15 React me common commands**

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

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## **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