📘 React.js Course Details

🔷 Course Overview

This React.js course teaches you how to build fast, interactive, and modern web applications using the most popular JavaScript library.
You will learn component-based development, state management, routing, hooks, API integration, and real-world project building.

🔷 What You Will Learn

1. Introduction to React

- What is React?
- SPA (Single Page Applications)
- Virtual DOM
- JSX syntax
- React folder structure

---

2. React Components

- Functional components
- Props
- State
- Component lifecycle basics
- Reusable UI components

---

3. React Hooks

- useState
- useEffect
- useRef

📘 React.js Course Details

- useContext

- Custom hooks

---

4. React Router

- Creating multiple pages

- Route & NavLink

- Dynamic routes

- Nested routes

- Redirects

---

5. State Management

- Props drilling avoidance

- Context API

- Redux (optional)

- Reducers and actions

---

6. Handling Forms

- Controlled & uncontrolled components

- Validation

- Form submission

- Error handling

---

7. API Integration

- Fetching data using fetch / axios

📘 React.js Course Details

- Displaying data in UI

- Handling loading & errors

- CRUD operations with backend

---

8. Styling in React

- CSS modules

- Styled components

- Tailwind CSS (optional)

- Responsive design in React

---

9. Advanced Concepts

- Higher-order components

- Memoization (React.memo, useMemo, useCallback)

- Performance optimization

- Code splitting & lazy loading

---

10. Deployment

- Build optimization

- Hosting on Vercel / Netlify

- Environment variables

🔷 Tools You Will Use

- VS Code

- Chrome DevTools

📘 React.js Course Details

- Node.js & NPM

- Git & GitHub

- Postman (for API testing)

🔷 Projects You Will Build

- To-Do app

- Weather app

- Shopping cart system

- Blog website

- Movies/Products listing app

- Full responsive website (final project)

🔷 Course Duration

- 4 to 6 weeks (project-based learning)

🔷 Who Can Join

- Beginners with basic JavaScript knowledge

- Students

- Web developers

- Anyone wanting to learn modern frontend development