Guide2Code - React.js Roadmap *

E Topics to Learn:

- I. Introduction to React (What is React? SPA Concept, Advantages)
- 2. Setting Up the Environment (Node.js, npm, create-react-app, Vite)
- 3. ISX & Components (Functional vs Class Components)
- 4. Props & State (Passing Data, useState Hook)
- 5. Event Handling in React (onClick, onChange, Handling Forms)
- 6. Lists & Keys (Rendering Lists, Unique Keys)
- 7. Conditional Rendering (if-else, ternary operator, && operator)
- 8. Basic Styling in React (CSS, Styled Components, Tailwind CSS)
- 9. React Router Basics (

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- 🤚 Guide2Code React.js Roadmap 📳
- Phase I: Beginner Level

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- 8. Basic Styling in React (CSS, Styled Components, Tailwind CSS)
- 9. React Router Basics (Routing, Link, useNavigate)

10. Simple API Calls (fetch, axios, useEffect for API requests)

Reginner Project Ideas:

- **To-Do List App** Add, edit, and delete tasks
- Weather App Fetch weather data using an API
- Calculator App Perform basic arithmetic operations
- Quote Generator Display random quotes using an API
- Movie Search App Search for movies using an API

Phase 2: Intermediate Level

Topics to Learn:

- I. React Hooks (useEffect, useRef, useMemo, useCallback)
- 2. Context API & useReducer (Global State Management)
- 3. React Router Advanced (Dynamic Routes, Nested Routing, Private Routes)
- 4. Forms & Validations (React Hook Form, Yup Validation)
- 5. Component Lifecycle & Error Boundaries (Handling Errors in Components)
- 6. State Management with Redux Toolkit (Slices, Store, Dispatch, Selectors)
- 7. Authentication & Authorization (JWT, OAuth, Firebase Authentication)
- 8. Custom Hooks (Creating Reusable Hooks)
- 9. Performance Optimization (Lazy Loading, Code Splitting, Memoization)
- 10. Testing in React (Jest, React Testing Library, Cypress)

K Intermediate Project Ideas:

- E-commerce Product Page Display and filter products
- Blog Website Fetch and display articles dynamically
- Expense Tracker Track monthly expenses and incomes
- Chat Application Real-time chat using Firebase
- Portfolio Website Showcase projects and skills

Phase 3: Advanced Level

Topics to Learn:

1. Server-Side Rendering (SSR) with Next.js (getServerSideProps, getStaticProps)

- 2. Progressive Web Apps (PWAs) in React (Service Workers, Manifest)
- 3. Advanced State Management (Recoil, Zustand, Jotai)
- 4. GraphQL with React (Apollo Client, Queries, Mutations)
- 5. WebSockets & Real-Time Apps (Socket.io Integration)
- 6. Micro Frontends with React (Module Federation, Single-SPA)
- 7. Animations in React (Framer Motion, GSAP)
- 8. React Native for Mobile Apps (Basic React Native Concepts)
- 9. Deploying React Apps (Vercel, Netlify, Docker)
- 10. Building a Full-Stack MERN App (MongoDB, Express, React, Node.js)

Advanced Project Ideas:

- Social Media Dashboard Show real-time stats from multiple platforms
- **AI-Powered Chatbot** Integrate OpenAI API for chat responses
- Stock Market Dashboard Display real-time stock prices and trends
- Task Management App Kanban board with drag & drop features
- SaaS Dashboard Admin panel with user roles and analytics