React.js Roadmap (2025 Edition)

1. Prerequisites

- HTML5, CSS3, JavaScript (ES6+)

- DOM manipulation

- Fetch API / Promises

- Basic Git & GitHub

- NPM/Yarn, CLI (optional)

2. Core React Fundamentals

- Create a React App (CRA or Vite)

- JSX, Components, Props, State

- Event Handling, Conditional Rendering

- Lists & Keys, Basic Styling

- Hooks: useState, useEffect, useRef, useContext

3. Project Structuring & Code Organization

- Folder structure

- Absolute Imports

- Code splitting, Lazy loading

- Reusable components

4. Routing

- react-router-dom

- Routes, Links, Nested Routes

- Dynamic Params, useNavigate, useParams

5. State Management

- useState, useReducer (local)

- useContext, Redux Toolkit

- Zustand, Recoil, Jotai (optional)

6. API Integration

- fetch, axios

- useEffect

- React Query, SWR for data fetching

7. Styling Options

- CSS Modules

- Tailwind CSS

- Styled Components

- SCSS/Sass

8. Form Handling & Validation

- Controlled forms with useState

- React Hook Form + Yup/Zod

- Formik

9. Testing

- Jest + React Testing Library

- Cypress/Playwright

- Snapshot Testing

10. Performance Optimization

- React.memo, useMemo, useCallback

- Code Splitting

- Virtualization

React.js Roadmap (2025 Edition)

11. Advanced Patterns

- Custom Hooks

- Compound Components

- Render Props

- HOCs

12. Developer Tools

- React DevTools

- VS Code Extensions

- ESLint, Prettier

- Husky + lint-staged

13. Building & Deployment

- npm run build

- Vercel, Netlify, GitHub Pages, Firebase

14. Bonus Topics

- SSR: Next.js

- Auth: Firebase, Auth0, NextAuth

- PWA

- i18n, WebSocket, localStorage

15. Practice & Projects

- Todo App

- Weather App

- Blog

- E-commerce

- Dashboard

React.js Roadmap (2025 Edition)

- Full-stack project