| | Date | Roadmap | Practice Task | Assessment/Coding Task | Status |
|---|---|---|---|---|---|
| Week 01 | 16-02-2026 | What is React?, SPA vs MPA, Virtual DOM, Install using Vite, Folder structure, JSX basics | Create a Vite React app, Create 5 components, Pass simple props, Render dynamic content | Build a simple: Profile card component and resueable button component. | Done |
| | 17-02-2026 | Functional components, props, reuseability, component composition | Build Navabr, Footer, Card List, and Pass different props to same component | Build a static Landing Page using component only | Done |
| | 18-02-2026 | State, useState, Re-rendering, Event Handling | Counter App, toggle dark/Light mode, Show/Hide password, Like button | Build a simple Form With Controlled Input | |
| | 19-02-2026 | Rendering lists, map(), Keys, Conditional rendering | Dynamic todo list, Delete item ,Add item | | |
| | 20-02-2026 | Controlled components, Form validation, Handling multiple inputs | Build: Login form, Signup form, Validation (no empty fields) | | |
| | 21-02-2026 | useEffect Hook: Side effects, useEffect lifecycle ,Dependency array | Fetch data from public API (like JSONPlaceholder), Display users, Add loading state | | |
| | 22-02-2026 | Revision + Small Project | | Features: Add/Delete tasks, Mark complete, Filter (All/Completed), Local storage persistence, Clean UI.  This project should feel polished. | |
| Week 02 | 23-02-2026 | Install react-router-dom, Routes, Link, useParams | Multi-page app: Home, About, Contact, Product details page | | |
| | 24-02-2026 | Context API: Prop drilling problem, createContext, useContext | Global theme switcher, Auth simulation | | |
| | 25-02-2026 | Custom Hooks: Why custom hooks, Extract reusable logic | useFetch hook, useLocalStorage hook | | |
| | 26-02-2026 | Performance Optimization: React.memo, useMemo, useCallback, Lazy loading, Code splitting, Suspense | Optimize large list rendering, Prevent unnecessary re-renders | | |
| | 27-02-2026 | Advanced Forms: Form libraries concept, Error handling patterns | Build multi-step form. | | |
| | 28-02-2026 | Revision + Small Dashboard | | Build a dashboard with: Sidebar, Routing, API data, Charts (optional) | |
| Week 03 | 1st March-2026 | | | | |
| | 2nd March-2026 | State Management Theory(Deep Understanding): What is global state?, Local vs global state, Prop drilling problem, Lifting state up, When NOT to use global state, Flux architecture concept | Take your Todo app and: Identify local state, Identify what could be global, Try lifting state manually | | |
| | 3rd March-2026 | Redux:  Store, Reducers, Actions, Slices, Provider, useSelector, useDispatch | Build small counter app using Redux Toolkit: Features: Increment, Decrement, Reset.  Then: Move your Todo app state to Redux | | |
| | 4th March-2026 | Async logic with createAsyncThunk, Middleware concept, DevTools, Redux folder structure, Normalized state | Create Product App: Fetch products from API, Store in Redux, Handle: loading, error, success | | |
| | 5th March-2026 | Compound Components, Higher Order Components (HOC), Render Props pattern, Controlled vs Uncontrolled, ForwardRef, useImperativeHandle | Build: Reusable Modal component, Tabs component (compound pattern), Custom dropdown. Make them reusable. | | |
| | 6th March-2026 | Revision | | Look the weeks tasks and make for better understanding | |
| | 7th March-2026 | | | | |
| | 8th March-2026 | | | | |