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**React JS Hands-On By Prasad**

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Time: 40-45 Days

**Module 1: Getting Started with React**

* What is React.js? (0.5 hours)
* Advantages of React (0.5 hours)
* Setting up the development environment (1 hour)
* Creating your first React component (1.5 hours)
* JSX (JavaScript XML) syntax (1.5 hours)

**Module 2: Components and Props**

* Understanding components and their role (0.5 hours)
* Creating functional components (1.5 hours)
* Creating nested and class components (1.5 hours)
* Passing data through props (1.5 hours)
* PropTypes for type validation (1 hour)

**Module 3: State and Lifecycle**

* Introduction to component state (0.5 hours)
* Using state in class components (2 hours)
* Updating state using setState() (2 hours)
* Component lifecycle (1.5 hours)
* Lifecycle methods (2 hours)

**Module 4: Handling Events**

* Adding event handlers to components (1 hour)
* Event binding and this context (1 hour)
* Understanding Synthetic Events (1 hour)
* Updating state through event handlers (1 hour)

**Module 5: Conditional Rendering**

* Using conditional statements in JSX (1 hour)
* Ternary operator for conditional rendering (1 hour)
* Rendering components conditionally (1.5 hours)
* Using the && operator (1 hour)

**Module 6: Lists and Keys**

* Rendering lists of items (1 hour)
* Using map() to generate dynamic content (1.5 hours)
* Adding unique keys to list items (1 hour)
* Importance of keys and their role in performance (1 hour)

**Module 7: Forms and Controlled Components**

* Creating forms in React (1 hour)
* Handling form input and updates (1.5 hours)
* Using controlled components (1.5 hours)
* Handling form submissions (1 hour)

**Module 8: Styling in React**

* Inline styling with JSX (1 hour)
* Adding CSS classes to components (1 hour)
* Using external CSS frameworks with React (1 hour)
* CSS Modules for scoped styling (1 hour)

**Module 9: Introduction to React Router**

* Navigating between components using React Router (2 hours)
* Setting up routes and navigation links (2 hours)
* Passing parameters through routes (2 hours)
* Nested routes and route configuration (2 hours)

**Module 10: State Management with Hooks**

* Introduction to React Hooks (1 hour)
* useState() for managing component state (2 hours)
* useEffect() for handling side effects (2 hours)
* Using custom hooks for code reuse (1.5 hours)

**Module 11: Building a Simple React Application**

* Applying the concepts learned to build a complete React application (5 hours)

**Module 12: Introduction to API Requests and Data Fetching**

* Fetching data from an API using fetch() or libraries like Axios (2 hours)
* Handling asynchronous operations using async/await (2 hours)
* Displaying fetched data in components (2 hours)
* Error handling and loading indicators (2 hours)

**Module 13: Deploying a React App**

* Preparing your app for production (1.5 hours)
* Building a production-ready bundle (1.5 hours)
* Deploying to platforms like GitHub Pages, Netlify, or Vercel (2 hours)

**Interview Questions - 2/3 hours**

Note: Included timings are rough estimated. May increase/decrease as per scenario.