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MANAGING APPLICATION STATE WITH REACT ROUTER

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INTRODUCTION:

- Since , we know that react is mostly used for single page applications.React Router is a powerful library for building single page applications It helps in creating dynamic and interactive web applications by easily handling the navigation and routing . In this article we'll explore how to manage state in react application using react router.

UNDERSTANDING REACT ROUTER:

- React Router is a library that helps you in navigating and routing of your single page

- application .Its key feature is that ,it allows you to create a multi-page application without the need for server-side routing . React Router is present in the react- router- dom package .Routes are defined , and components are rendered based on URL.

SETTING UP ROUTES:

- Adding a static route to the Windows routing table can be useful in specific situations, such as managing multiple internet connections or directing traffic to specific subnets.

- You can view the Windows routing table using the Command Prompt by typing "route print" and see the destinations and gateways for packets.

- To add a static route, use the command "route add destination_network MASK subnet_mask gateway_ip metric_cost" and make it persistent with the "-p" option. To remove a static route, use "route delete destination_network".

MANAGING STATE IN REACT:

- Local Component State: You can manage state within individual components using the useState hook. This is suitable for small-scale applications with simple state requirements.

- React Context: React Context is a mechanism for sharing state across multiple components. It's a good choice when you need to pass data down the component tree without having to explicitly pass props at every level.

- URL Parameter: By keeping state in the URL, your webpage remembers your place. So, if you bookmark a page, it will look the same when you come back to it later. If you're looking at something specific on a page, like a product or a chart, you can share the URL. Anyone who clicks it will see exactly what you're seeing, making collaboration a breeze.

- Redux and MobX: As applications grew in complexity, tools like Redux and Mob emerged. They centralized data management, making it easier to handle app-wide data.

CONCLUSION:

- React Router and state management are essential parts of building web applications with React. Properly combining these two aspects is crucial for creating dynamic, interactive, and userfriendly SPAs. Whether you choose to manage state locally within components, use React Context for broader state sharing, or integrate state management libraries like Redux

THANK YOU