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Link:

Link is a basic component for creating navigation links in your application.

It is typically used to navigate between different routes or pages within your application.

When you use Link, it renders an anchor (`<a>`) tag with an href attribute pointing to the specified route. Clicking the link triggers a navigation to the target route without any additional styling or active class applied by default.

It's a simple and lightweight way to create navigation links.

NavLink:

NavLink is an extension of Link that provides additional functionality for styling and adding an "active" class to the active link.

It's commonly used to style the navigation links based on whether they correspond to the currently active route. For example, you can apply CSS classes or styles to highlight the active link.

NavLink allows you to specify the activeClassName and activeStyle props to define how the link should appear when it corresponds to the current route.

The useNavigate hook is part of the react-router-dom package that allows programmatic routing inside a React application.

A protected route is one that can only be accessed by an authenticated user. If a user tries to access a protected route and they are not logged in, they should be redirected to the login page.