

Optional Exercise: React-Router

0. 问答练习(八股)

准备以下八股题目答案, 写在 `note.md` 里

1. What is the difference between a `<Link>` and an `<a>` tag?
2. What is `<Route>` used for?
3. What is the difference between `path="/"` and `path="*"`?
4. How do you navigate using react-router?
5. How do you redirect a user in React Router?
6. How to acquire the user's current URL params?

小组间Peer Mock，录音并上传

1. Coding

Build a **mini React website** with **navigation and dynamic routing** using **React Router v6**:

1. Setup React Router in the app
2. Create 3 pages:
 - a. Home (`/`)
 - b. About (`/about`)
 - c. User Profile (`/user/:username`) → dynamic route
3. Create a **navigation bar** with `<Link>` to Home and About.
4. Add a **404 "Not Found" page** for all other routes.
5. On the User Profile page, read the ***username*** from the URL and display it.

6. Bonus: Add a **button** on Home page to programmatically navigate to `/user/someone` .

Details:

Page	Path	What to show
Home	<code>/</code>	"Welcome to the Home Page" Bonus: button to <code>/user/guest</code>
About	<code>/about</code>	"About Us Page"
User Profile	<code>/user/:username</code>	"Hello, {username}"
Not Found (404)	<code>*</code>	"404 Page Not Found"