React Coding Challenge: User Management Dashboard

Problem Statement:

You are tasked with building a simple User Management Dashboard using React, React Router, and Bootstrap. This dashboard will simulate a basic admin interface for managing users in a system.

You'll consume a public fake API to:

1. Fetch and display user data
2. Add new users
3. Delete existing users

This case study will test your ability to use:

- Functional Components
- React Router
- useEffect and useState hooks
- Axios for API interactions
- Bootstrap for layout and tables

Public API to Use:
Use the JSONPlaceholder API – it's free and doesn't require authentication.
Base URL: **https://jsonplaceholder.typicode.com**

You'll use the following endpoints:

Method	Endpoint	Purpose
GET	/users	Fetch all users
POST	/users	Add a new user (it won't persist but will return a response)
DELETE	/users/:id	Simulate user deletion (won't actually delete on backend)

Project Structure Guidelines:
You can structure the project as:

```
/src
   ├── components/
   │     ├── UserList.jsx      # Component to show users in a table
   │     ├── AddUser.jsx       # Form to add a user
   ├── App.jsx                 # Configure routing
   └── main.jsx                 # React DOM render setup
```

Functional Requirements

1. User List View (/users)
Use GET /users to fetch data.
Display data in a Bootstrap table.
Each row should show:

Name
Email
Phone
Company Name
Action button (Delete)

Clicking "Delete" will trigger a DELETE request to /users/:id.
You can optimistically remove the user from UI even though it's not deleted on the backend.

2. Add User View (/add-user)
Create a form with the following fields:

Name
Email
Phone
Company Name

On Submit:
Send a POST request to /users.
Log the response in console (you can also show a success toast).
Optionally navigate back to /users.

3. Routing
Set up basic routing using react-router-dom.

Use NavLink or Link to create a header with:
"User List"
"Add User"