# README for User Management App

This is a simple React application for managing Users. It allows users to add, edit, delete, and search for Users. This README file provides an overview of the code structure and functionality of the application.

## Prerequisites

Before running the application, ensure you have the following installed:

- Node.js and npm (Node Package Manager)

## Getting Started

1. If you want this to run into your system just Clone this repository to your local machine.

2. Open your terminal and navigate to the project directory.

3. Run the following command to install the required dependencies:

npm install

4. After the installation is complete, you can start the development server by running:

npm start

5. The application should now be running locally. Open your web browser to use the User Management App.

## Folder Structure

The project structure is organized as follows:

- `src/`: Contains the source code for the React application.

- `components/`: Contains React components used in the application.

- `App.js`: Main application component.

## Code Overview

### Dependencies

The application relies on several external packages and libraries, including:

- React: A JavaScript library for building user interfaces.

- react-router-dom: A library for handling routing and navigation in React applications.

### App Component

The `App.js` file is the main entry point for the application. Here's a brief overview of what this component does:

- Imports necessary dependencies and components.

- Defines functions for adding, updating, and removing Users.

- Manages state for Users, search term, and search results using React `useState`.

- Implements a search handler to filter Users based on the search term.

- Uses `useEffect` to retrieve and populate the Users from an API when the component mounts.

- Configures routing using `react-router-dom` to display different components based on the URL path.

## Usage

- Upon running the application, you can access it in your web browser.

- The main page displays a list of Users, which can be filtered by entering a search term in the search bar on basis of id and name.

- You can add a new User by clicking the "Add User" button and providing User details.

- Users can be edited by clicking the "Edit" button next to each User.

- To delete a User, click the "Delete" button.

A screenshot of a computer

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