



Spring 2024-2025

Contact Manager App using React

Introduction:

In this lab, you will build a basic **Contact Manager App** using **React**. This app will let users add, display, and delete contact information using a simple form and list interface. Through this exercise, you will learn the fundamentals of working with React components, state and props.

Objectives:

By completing this assignment, you will be able to:

- Create and use **functional components** and **JSX**.
- Manage component state using the **useState** hook.
- Handle user interactions using **event handlers**.
- Pass data and functions through **props**.
- Work with **forms** and controlled components.
- Render dynamic lists using the **map()** method.

Instructions:

1. Set Up the Project

- Create a new React app using `create-react-app`
- Inside `src`, add two folders: **components** and **css**

2. App Component (App.js)

Purpose: The main component that holds the entire app's state and logic.

- Manage contact state using `useState`
- Create `addContact()` and `deleteContact()` functions
- Pass these as props to other components
- Render the app layout with a title, form, and contact list

3. ContactForm Component

Purpose: Provides the input form to collect a contact's name and email.

- Create a controlled form with inputs for **name** and **email**
- Use `useState` for form fields
- On submit: validate and add contact
- Clear form after submission

4. ContactList Component

Purpose: Displays the list of contacts.

- Display a heading and list of contacts
- If no contacts, show a message
- Use `map()` to render each contact using `ContactItem`

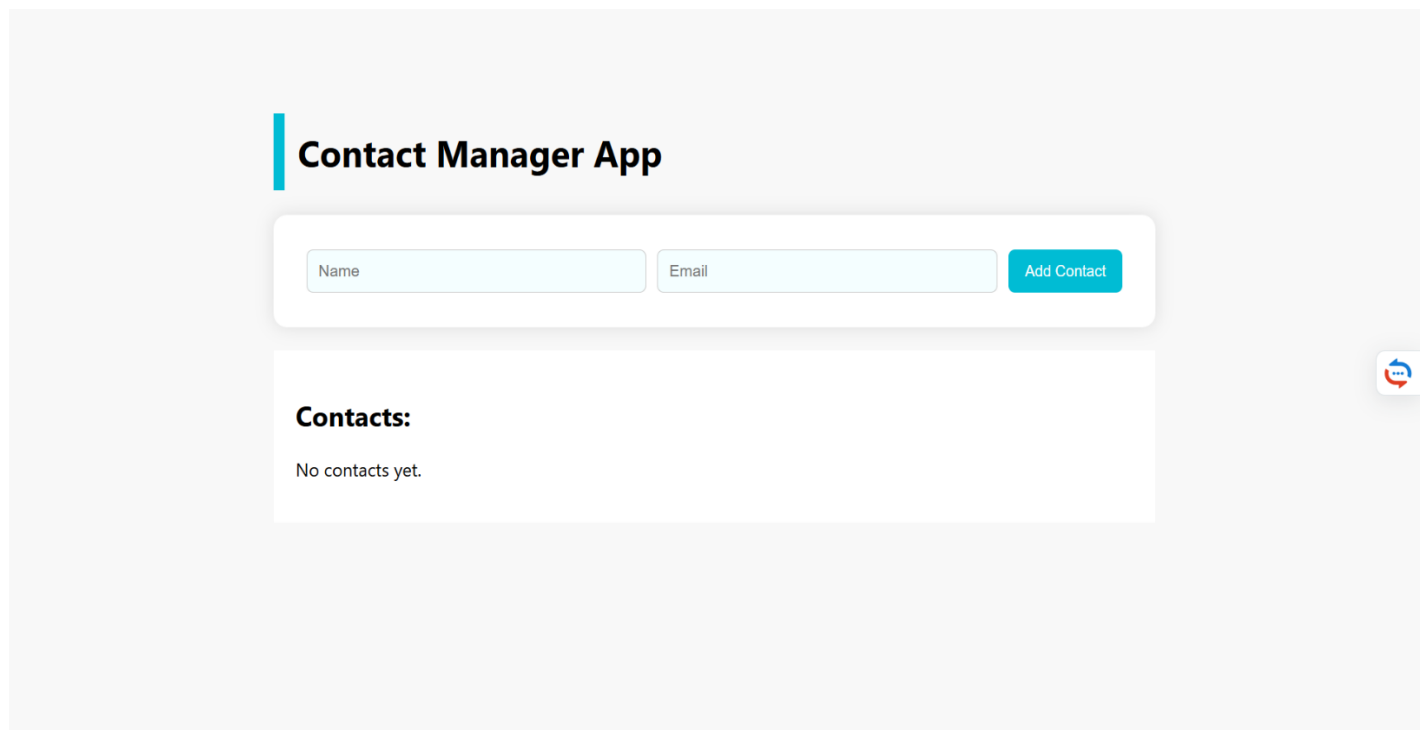
5. ContactItem Component

Purpose: Represents a single contact entry with its name, email, and a Delete button.

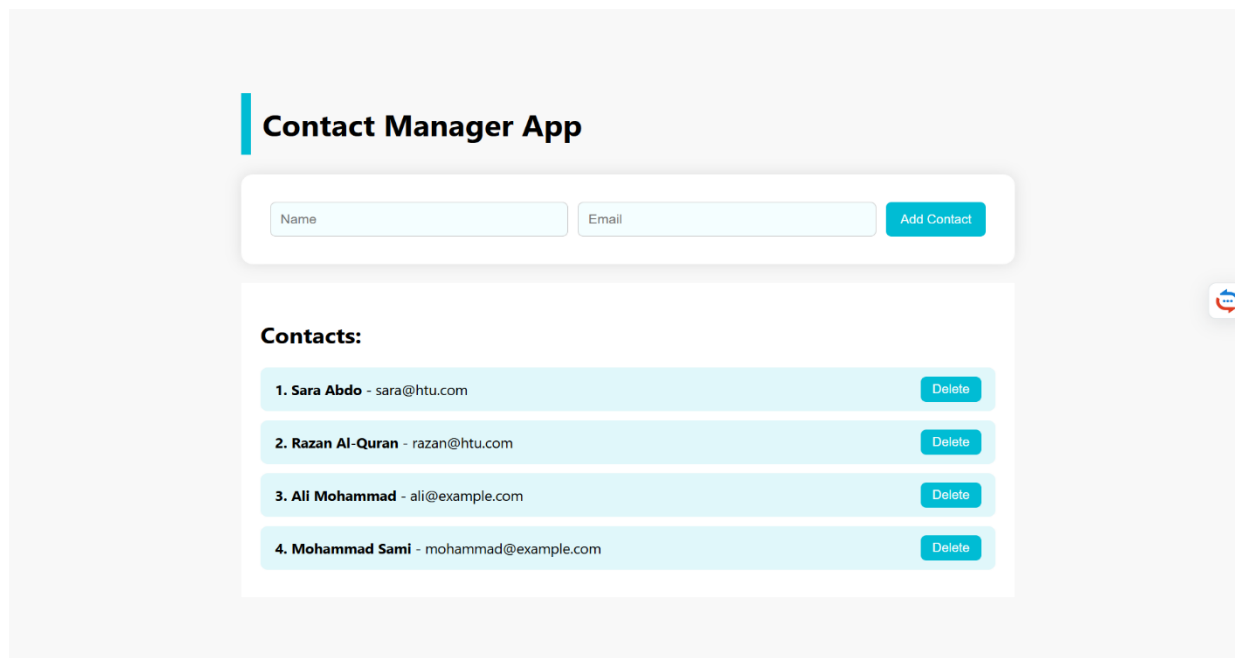
- Show individual contact details (number, name, email)
- Add a **Delete** button to remove a contact
- Use props to receive the data and function

App Screenshots:

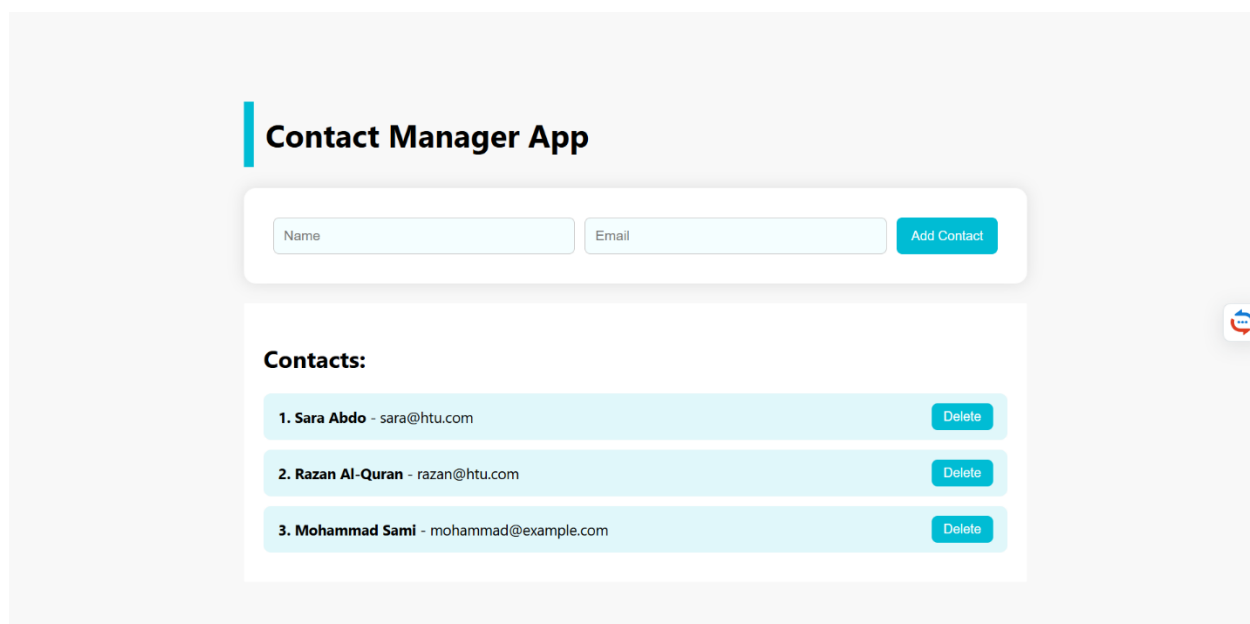
The app without any contacts:



The app with list of contacts:



The app after delete one of the contact name:



Submission:

- Create a GitHub Repository.
- Push your entire React project to the GitHub repository.
- Submit the **URL of your GitHub repository** (e.g., <https://github.com/yourusername/react-todo-app>) via the eLearning platform.