Contact Management App with Charts and Maps - Documentation

This documentation will guide you through setting up, running, and using the Contact Management App with Charts and Maps. The app is built using ReactJS, TypeScript, TailwindCSS, React Router v6, and React Query (Tanstack Query). It includes features to manage contacts, display charts, and show maps with COVID-19 data.

Prerequisites

1. Node.js: Make sure you have Node.js installed on your machine. You can download it from the official website: https://nodejs.org/

Getting Started

1. **Clone the Repository:**

   Clone the GitHub repository to your local machine using the following command:

   git clone https://github.com/ABIJOSEPHGEORGE/contact-management-app.git

2. **Install Dependencies:**

   Navigate to the project directory and install the required dependencies using npm or yarn:

   cd contact-management-app
   npm install

Running the App

1. **API Endpoint:**

   The app fetches COVID-19 data from the following APIs:

   - Worldwide data of cases: https://disease.sh/v3/covid-19/all
   - Country Specific data of cases: https://disease.sh/v3/covid-19/countries
   - Graph data for cases with date: https://disease.sh/v3/covid-19/historical/all?lastdays=all

3. **Starting the App:**

   Run the development server using the following command:

   npm start

   The app will be accessible at `http://localhost:3000`.

App Structure

The app is structured into two main sections:

1. **Contact Management:**

   - The "Contacts" page lets you add, view, edit, and delete contacts.
   - Redux is used to manage contact data.

2. **Charts and Maps:**

   - The "Charts and Maps" page displays a line graph showing COVID-19 case fluctuations and a React Leaflet map with markers indicating COVID-19 data for different countries.
   - React Query is used to fetch and manage COVID-19 data from the provided APIs.

Deployment

The application has been deployed to Vercel and the codebase is available on GitHub.
Live Link: https://cmaproject.abingeorge.xyz/
GitHub: https://github.com/ABIJOSEPHGEORGE/contact-management-app.git

Additional Notes

- The app is responsive and designed to work well on both desktop and mobile devices.
- Styling is done using TailwindCSS.
- The code is written in TypeScript to ensure type safety and better code quality.
- Comments are provided throughout the code to explain important sections and functionality.

Feel free to explore the codebase, make modifications, and customize the app according to your needs. If you encounter any issues, please refer to the documentation of the libraries and tools used or reach out for assistance.

Enjoy using the Contact Management App with Charts and Maps!