FindMyCA: Responsive Landing Page with API Integration

Introduction:

"**FindMyCA**" is a responsive web application designed to help users search for Chartered Accountants (CAs) and view detailed information about selected CAs. Built with React and Tailwind CSS, this application features a mock RESTful API for data retrieval, a clean user interface, and a mobile-first responsive design. It allows users to search dynamically for Chartered Accountants and navigate seamlessly between a homepage and a details page.

Features:

- **Search Functionality**: A search bar that provides dynamic suggestions as the user types, retrieving results from a mock API.
- **Details Page**: Displays detailed information about a selected Chartered Accountant, including name, description, charges, ratings, and image.
- **API Integration**: Interaction with a mock RESTful API using json-server to fetch and display data.
- **Responsiveness**: The design adapts seamlessly to different screen sizes (mobile, tablet, desktop).
- **Error Handling**: Graceful handling of scenarios like no matches found or API request failures.

Profiles Page Design:

The Profile Page includes:

❖ **Search Bar**:

- Positioned prominently at the top.
- Accepts user input to search for Chartered Accountants dynamically.
- Displays suggestions as the user types, fetched from the API.

❖ **Dynamic Search Suggestions**:

- A list of matching Chartered Accountants retrieved from the mock API.
- Each suggestion is clickable, redirecting the user to a details page.

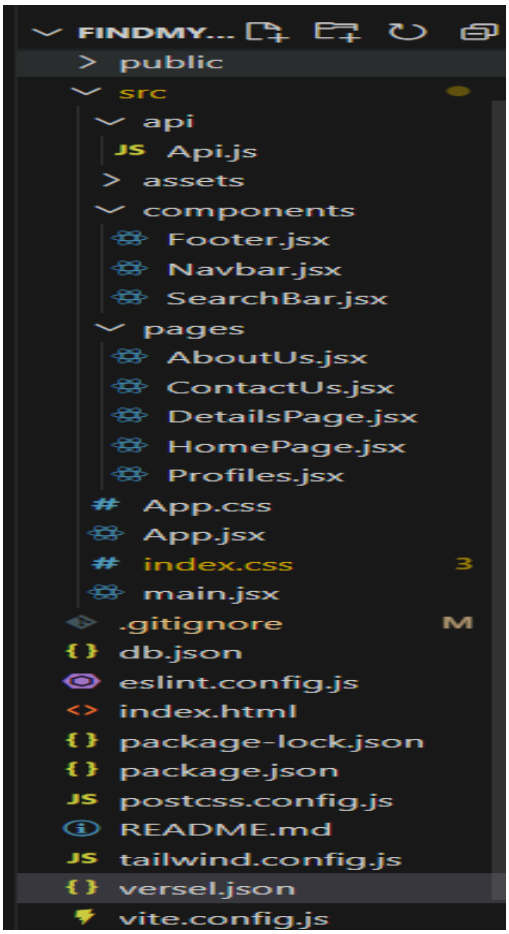
FindMyCA: Responsive Landing Page with API Integration

Details Page Design:

The details page displays:

1. Chartered Accountant Details:
    - Name.
    - Charges.
    - Description.
    - Ratings.
    - Profile Image.
2. Back Button:
    - Allows users to navigate back to the homepage easily.

Project Structure:



FindMyCA: Responsive Landing Page with API Integration

Technologies Used:

- **React:** Component-based architecture for building the UI.
- **Tailwind CSS:** For styling and ensuring responsive design.
- **json-server:** A mock RESTful API for data management.
- **React Router:** For navigating between the homepage and details page.
- **Axios:** For making API requests to the mock server.
- **Git/GitHub:** Version control and code sharing.

API Integration:

The application uses json-server to serve data stored in db.json. The mock API includes Chartered Accountant details in the following format:


```
[
  {
    "id": 1,
    "name": "John Doe",
    "charges": "$500/hr",
    "description": "Expert in tax management and financial audits.",
    "rating": 4.8,
    "image": "path/to/image1.jpg"
  },
  {
    "id": 2,
    "name": "Jane Smith",
    "charges": "$300/hr",
    "description": "Specialist in corporate finance and accounting.",
    "rating": 4.5,
    "image": "path/to/image2.jpg"
```

FindMyCA: Responsive Landing Page with API Integration

```
  }
]
```

Endpoints:

1. GET /cAs: Fetch all Chartered Accountants.
2. GET /cAs?name_like={query}: Fetch Chartered Accountants matching the search query.

Implementation Steps:

1. **Set Up the Environment**:
   - Create a new React app using Vite:

     npm create vite@latest FindMyCA --template react

     cd FindMyCA

     npm install
   - Set up Tailwind CSS:

     npm install -D tailwindcss postcss autoprefixer

     npx tailwindcss init

     Configure tailwind.config.js and include Tailwind directives in index.css.
2. **Mock API**:
   - Install json-server:

     npm install -g json-server
   - Create a db.json file with CA data.
   - Run the mock server:

     json-server --watch db.json --port 5000
3. **Develop Components**:
   - **SearchBar.jsx**:

FindMyCA: Responsive Landing Page with API Integration

    - Handles user input and fetches suggestions from the API dynamically.

- **Profiles.jsx**:
    - Displays the list of Chartered Accountants based on search results.
- **DetailsPage.jsx**:
    - Shows detailed information about a selected Chartered Accountant.

4. **Routing**:

- Use React Router to handle navigation between the homepage and details page.

5. **Responsive Design**:

- Leverage Tailwind CSS utilities for a mobile-first responsive layout.

6. **Error Handling**:

- Display a message if no results are found or if the API request fails.

Usage:

1.**Run the Project Locally:**

- Install dependencies:

  npm install

- Start the application and API:

  npm run dev

  json-server --watch db.json --port 5000

- Access the app at http://localhost:3000 and the API at http://localhost:5000.

2.**Search Chartered Accountants:**

- Enter a name in the search bar to see suggestions.
- Click a suggestion to view details.

FindMyCA: Responsive Landing Page with API Integration

3.**Test Responsiveness:**

- Use browser dev tools to test the app on mobile, tablet, and desktop.

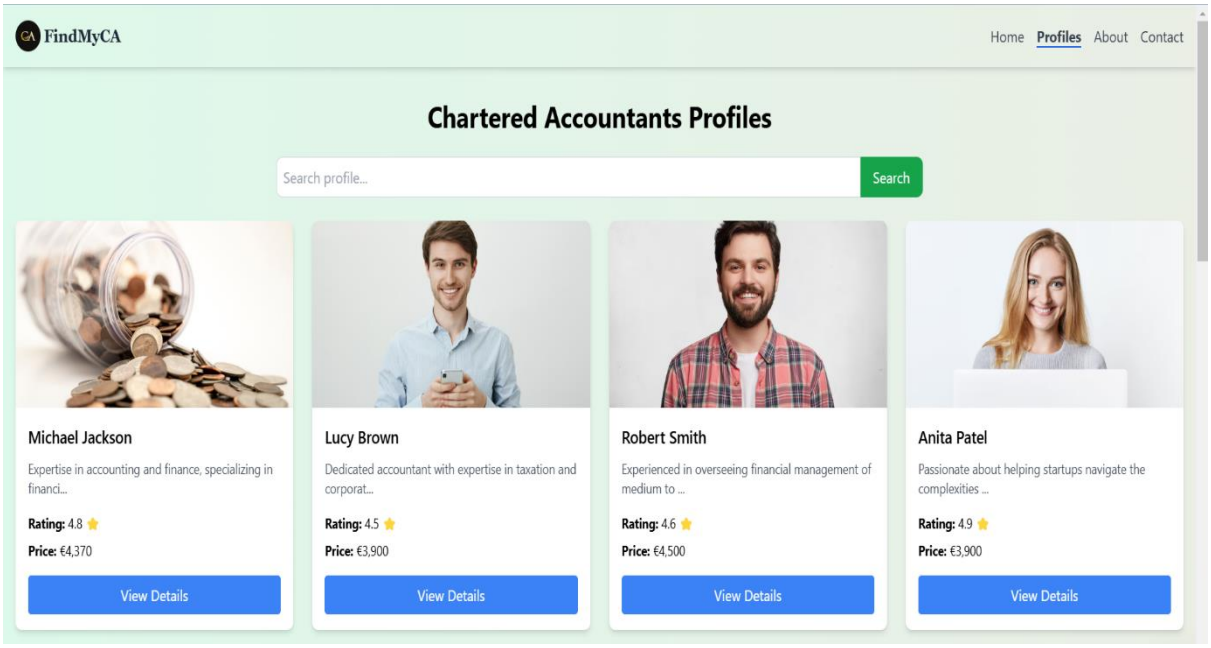
Output:

1.Profile Page:

- Fully responsive design with a search bar and dynamic suggestions.

2.Details Page:

- Displays detailed information about selected Chartered Accountants with a responsive layout.



Conclusion:

The FindMyCA application demonstrates a clean, responsive design and efficient API integration using React, Tailwind CSS, and json-server. By following modern development practices, the project ensures scalability, maintainability, and user-friendliness.