UserList Component Documentation

Overview

The UserList component is a React-based component designed to display a list of users in a visually appealing and interactive manner. Each user is represented as a card with details such as name, email, phone number, and company name. The component also provides functionality for liking, editing, and deleting users. The user avatars are dynamically generated using the DiceBear API.

Features

1. **User Display**: Displays user details in a card format, including name, email, phone number, and company name.

2. **Dynamic Avatars**: Generates unique avatars for each user using the DiceBear API.

3. **Like Functionality**: Allows users to "like" a profile, which toggles a heart icon between filled (liked) and unfilled (not liked).

4. **Edit Functionality**: Enables users to edit the name and email of a profile. When in edit mode, input fields replace the static text, and a "Save" button is provided to save changes.

5. **Delete Functionality**: Allows users to delete a profile from the list.

6. **Responsive Design**: The layout is responsive, ensuring the cards are displayed properly on different screen sizes.

How It Works

Props

The UserList component accepts the following props:

1. **users**: An array of user objects, where each object contains user details such as id, name, email, phone, company, and a liked status.

2. **onLike**: A function that handles the "like" action for a specific user.

3. **onEdit**: A function that enables editing mode for a specific user.

4. **onSave**: A function that saves the edited user details.

5. **onDelete**: A function that deletes a user from the list.

State Management

The component uses the useState hook to manage the editValues state, which stores the temporary values for name and email during editing. This ensures that changes made in the input fields are tracked and can be saved or discarded.

Dynamic Avatar Generation

Each user's avatar is generated using the DiceBear API. The avatar URL is created by combining the user's name and ID, ensuring a unique avatar for each user.

Edit Mode

When a user enters edit mode (isEditing is true), the static text for name and email is replaced with input fields. The handleInputChange function updates the editValues state as the user types in the input fields. Once the user clicks the "Save" button, the onSave function is called to save the changes.

Like, Edit, and Delete Icons

Each user card includes three action icons:

1. **Like Icon**: A heart icon that toggles between filled (red) and unfilled (white) based on the liked status of the user.

2. **Edit Icon**: A pencil icon that triggers the onEdit function to enable editing mode.

3. **Delete Icon**: A trash icon that triggers the onDelete function to remove the user from the list.

User Interface

The component renders a grid of user cards with the following structure:

1. **Avatar**: A dynamically generated avatar is displayed at the top of each card.

2. **User Details**:

   o In normal mode, the user's name, email, phone number, and company name are displayed.

   o In edit mode, input fields for name and email replace the static text, and a "Save" button is provided.

3. **Action Icons**: Three icons (Like, Edit, Delete) are displayed at the bottom of each card for user interactions.

The UI is styled using Bootstrap classes, ensuring a clean and responsive design.

Usage

To use the UserList component, pass the required props (users, onLike, onEdit, onSave, and onDelete) when rendering the component. For example:

<UserList

  users={users}

  onLike={handleLike}

  onEdit={handleEdit}

  onSave={handleSave}

  onDelete={handleDelete}

/>

Styling

The component relies on Bootstrap for styling. Ensure that Bootstrap is included in your project for the styles to apply correctly. The cards, icons, and input fields are styled using Bootstrap utility classes, making the component responsive and visually consistent.

Dependencies

1. **React**: Required for building the component.

2. **Bootstrap**: Used for styling the component.

3. **DiceBear API**: Used for generating dynamic avatars.

Conclusion

The UserList component is a versatile and interactive way to display a list of users in a React application. It provides essential functionalities like liking, editing, and deleting users, along with dynamic avatar generation. The component is designed to be easily integrated into any React project and is styled using Bootstrap for a professional look.