Task

User Information Management System

Consider we have a list of user information stored in an array of objects. Each object contains details such as the user's name, email, phone number, and address.

AllUsersComponent:

Create an AllUsersComponent that receives the list of user information as props and renders a table displaying each user's details. Pass each user's information as props to a SingleUserComponent.

SingleUserComponent:

Define a SingleUserComponent that receives the user's information as props and displays it in a table row. Additionally, include a button in each row that, when clicked, removes the corresponding user's information from the table.

Example Data-Store this data in users.js file and import the data into AllUsers component as useState:

const users = [
{ id: 1, name: "Alice Johnson", email: "alice@example.com", phone: "555-1234", address: "123 Main St" },
{ id: 2, name: "Bob Smith", email: "bob@example.com", phone: "555-5678", address: "456 Elm St" },
{ id: 3, name: "Charlie Brown", email: "charlie@example.com", phone: "555-9101", address: "789 Oak St" }
];

Tasks to be done:
1) AllUsersComponent: Render a table displaying each user's information using the SingleUserComponent.
2) SingleUserComponent: Display each user's details in a table row and include a button to remove the user.
3) Handle Deletion: Implement the functionality to remove a user when the delete button is clicked in the parent component.
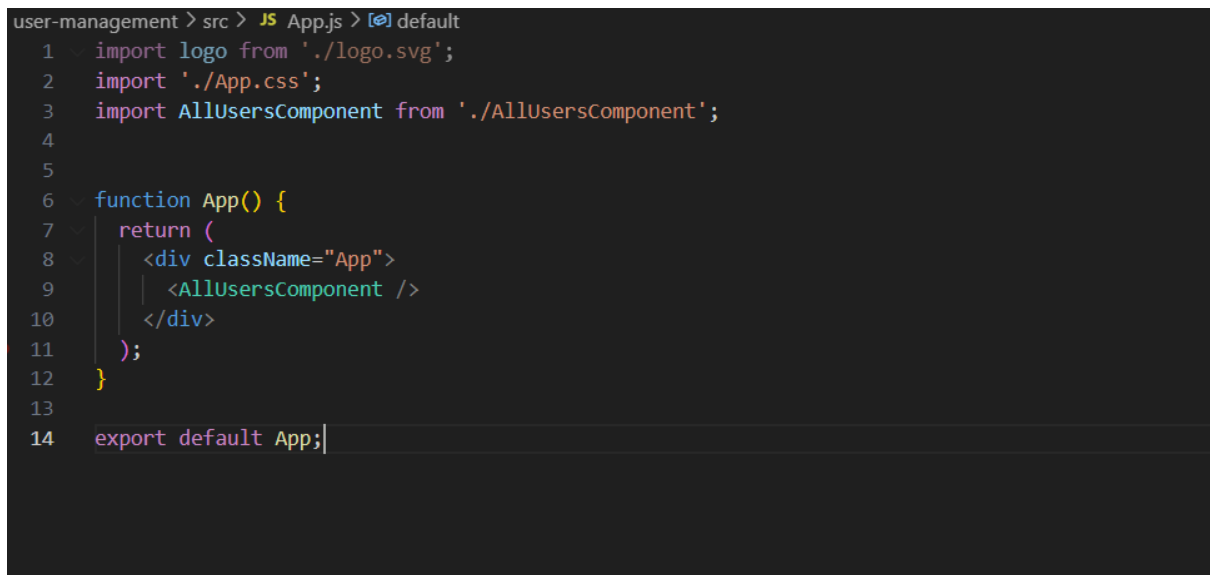
Solution

App.js

```
import logo from './logo.svg';

import './App.css';

import AllUsersComponent from './AllUsersComponent';


function App() {

  return (

    <div className="App">

      <AllUsersComponent />

    </div>

  );

}


export default App;
```

```
user-management > src > JS App.js > [∅] default
  1    import logo from './logo.svg';
  2    import './App.css';
  3    import AllUsersComponent from './AllUsersComponent';
  4
  5
  6    function App() {
  7      return (
  8        <div className="App">
  9          <AllUsersComponent />
 10        </div>
 11      );
 12    }
 13
 14    export default App;
```

Index.css

```css
body {
  font-family: 'Arial', sans-serif;
  margin: 0;
  padding: 0;
  background-color: #f4f4f9;
  color: #333;
}
h1 {
  text-align: center;
  font-size: 2rem;
  margin-bottom: 20px;
  color: #222;
}
table {
  width: 90%;
  margin: 20px auto;
  border-collapse: collapse;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}
th, td {
  padding: 12px 15px;
  text-align: left;
}
thead th {
  background-color: #4CAF50;
  color: white;
```

```css
  font-size: 1rem;

  text-transform: uppercase;

}

tbody tr {

  background-color: white;

  border-bottom: 1px solid #ddd;

}

tbody tr:nth-child(even) {

  background-color: #f9f9f9;

}

tbody tr:hover {

  background-color: #f1f1f1;

}

button {

  background-color: #ff4d4d;

  color: white;

  border: none;

  border-radius: 4px;

  padding: 8px 12px;

  cursor: pointer;

  font-size: 0.9rem;

  transition: background-color 0.3s ease;

}

button:hover {

  background-color: #e60000;

}
```

```css
.container {

  padding: 20px;

}

@media (max-width: 768px) {

  table {

    font-size: 0.9rem;

  }

  button {

    padding: 6px 10px;

    font-size: 0.8rem;

  }

}
```

```css
 1    body {
 2      font-family: 'Arial', sans-serif;
 3      margin: 0;
 4      padding: 0;
 5      background-color: #f4f4f9;
 6      color: #333;
 7    }
 8
 9    h1 {
10      text-align: center;
11      font-size: 2rem;
12      margin-bottom: 20px;
13      color: #222;
14    }
15
16    table {
17      width: 90%;
18      margin: 20px auto;
19      border-collapse: collapse;
20      box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
21    }
22
23    th, td {
24      padding: 12px 15px;
25      text-align: left;
26    }
27
28    thead th {
```

```css
28    thead th {
29        background-color: #4CAF50;
30        color: white;
31        font-size: 1rem;
32        text-transform: uppercase;
33    }
34
35    tbody tr {
36        background-color: white;
37        border-bottom: 1px solid #ddd;
38    }
39
40    tbody tr:nth-child(even) {
41        background-color: #f9f9f9;
42    }
43
44    tbody tr:hover {
45        background-color: #f1f1f1;
46    }
47
48    button {
49        background-color: #ff4d4d;
50        color: white;
51        border: none;
52        border-radius: 4px;
53        padding: 8px 12px;
54        cursor: pointer;
```

```css
48    button {
          padding: 8px 12px;
54        cursor: pointer;
55        font-size: 0.9rem;
56        transition: background-color 0.3s ease;
57    }
58
59    button:hover {
60        background-color: #e60000;
61    }
62
63    .container {
64        padding: 20px;
65    }
66
67    @media (max-width: 768px) {
68        table {
69            font-size: 0.9rem;
70        }
71
72        button {
73            padding: 6px 10px;
74            font-size: 0.8rem;
75        }
76    }
77
```

user.js

```js
const users = [
    { id: 1, name: "Alice Johnson", email: "alice@example.com", phone: "555-1234", address: "123 Main St" },
    { id: 2, name: "Bob Smith", email: "bob@example.com", phone: "555-5678", address: "456 Elm St" },
    { id: 3, name: "Charlie Brown", email: "charlie@example.com", phone: "555-9101", address: "789 Oak St" },
  ];

  export default users;
```

```
user-management > src > JS users.js > ...
  1   const users = [
  2       { id: 1, name: "Alice Johnson", email: "alice@example.com", phone: "555-1234", address: "123 Main St" },
  3       { id: 2, name: "Bob Smith", email: "bob@example.com", phone: "555-5678", address: "456 Elm St" },
  4       { id: 3, name: "Charlie Brown", email: "charlie@example.com", phone: "555-9101", address: "789 Oak St" },
  5     ];
  6
  7     export default users;
  8
```

SingleUserComponent.js

```js
import React from "react";

const SingleUserComponent = ({ user, onDelete }) => {
  return (
    <tr>
      <td className="border border-gray-400 px-4 py-2">{user.name}</td>
      <td className="border border-gray-400 px-4 py-2">{user.email}</td>
      <td className="border border-gray-400 px-4 py-2">{user.phone}</td>
      <td className="border border-gray-400 px-4 py-2">{user.address}</td>
      <td className="border border-gray-400 px-4 py-2">
        <button
```

```
          onClick={() => onDelete(user.id)}

          className="bg-red-500 text-white px-4 py-2 rounded"

        >

          Delete

        </button>

      </td>

    </tr>

  );

};


export default SingleUserComponent;
```

```
user-management > src > JS SingleUserComponent.js > [∅] SingleUserComponent
   1    import React from "react";
   2
   3    const SingleUserComponent = ({ user, onDelete }) => {
   4      return (
   5        <tr>
   6          <td className="border border-gray-400 px-4 py-2">{user.name}</td>
   7          <td className="border border-gray-400 px-4 py-2">{user.email}</td>
   8          <td className="border border-gray-400 px-4 py-2">{user.phone}</td>
   9          <td className="border border-gray-400 px-4 py-2">{user.address}</td>
  10          <td className="border border-gray-400 px-4 py-2">
  11            <button
  12              onClick={() => onDelete(user.id)}
  13              className="bg-red-500 text-white px-4 py-2 rounded"
  14            >
  15              Delete
  16            </button>
  17          </td>
  18        </tr>
  19      );
  20    };
  21
  22    export default SingleUserComponent;
  23
```

AllUsersComponent.js

import React, { useState } from "react";

```jsx
import SingleUserComponent from "./SingleUserComponent";
import usersData from "./users";

const AllUsersComponent = () => {
  const [users, setUsers] = useState(usersData);

  const handleDelete = (id) => {
    setUsers(users.filter((user) => user.id !== id));
  };

  return (
    <div className="container">
      <h1>User Management</h1>
      <table>
        <thead>
          <tr>
            <th>Name</th>
            <th>Email</th>
            <th>Phone</th>
            <th>Address</th>
            <th>Actions</th>
          </tr>
        </thead>
        <tbody>
          {users.map((user) => (
            <SingleUserComponent key={user.id} user={user} onDelete={handleDelete} />
          ))}
```

```
      </tbody>
    </table>
  </div>
);
};


export default AllUsersComponent;
```



```js
user-management > src > JS AllUsersComponent.js > [@] AllUsersComponent
  1   import React, { useState } from "react";
  2   import SingleUserComponent from "./SingleUserComponent";
  3   import usersData from "./users";
  4
  5   const AllUsersComponent = () => {
  6     const [users, setUsers] = useState(usersData);
  7
  8     const handleDelete = (id) => {
  9       setUsers(users.filter((user) => user.id !== id));
 10     };
 11
 12     return (
 13       <div className="container">
 14         <h1>User Management</h1>
 15         <table>
 16           <thead>
 17             <tr>
 18               <th>Name</th>
 19               <th>Email</th>
 20               <th>Phone</th>
 21               <th>Address</th>
 22               <th>Actions</th>
 23             </tr>
 24           </thead>
 25           <tbody>
 26             {users.map((user) => (
 27               <SingleUserComponent key={user.id} user={user} onDelete={handleDelete} />
 28             ))}
 29           </tbody>
 30         </table>
 31       </div>
 32     );
 33   };
 34
 35   export default AllUsersComponent;
 36
```

OUTPUT –

User Management

NAME	EMAIL	PHONE	ADDRESS	ACTIONS
Alice Johnson	alice@example.com	555-1234	123 Main St	Delete
Bob Smith	bob@example.com	555-5678	456 Elm St	Delete
Charlie Brown	charlie@example.com	555-9101	789 Oak St	Delete