**Exp-9 User list in ReactJS**

**Aim:** To add and delete user from users list using ReactJS.

**Theory:**

The UserHome component in React provides a simple interface for managing a list of users. It utilizes the useState hook to handle state, where userList stores the list of users and user holds the input values for name, email, and age. The handleChange function updates the user state as the user types, ensuring controlled inputs. When the form is submitted, handleSubmit adds the new user to userList and resets the input fields. Users are displayed dynamically, with their details shown in separate divs. If no users are available, a "No users" message is displayed.

To allow user removal, the handleDelete function filters out the selected user based on its index, updating userList accordingly. The component follows React best practices by ensuring state updates are immutable and rendering updates efficiently. It demonstrates key concepts such as controlled components, event handling, and state management while maintaining a simple and user-friendly interface.

**Code:**import { useState } from "react";

import "./user.css";

const UserHome = () => {

  const [userList, setUserList] = useState([]);

  const [user, setUser] = useState({ name: "", email: "", age: 10 });

  const handleChange = (e) => {

    const { name, value } = e.target;

    setUser((prevUser) => ({ ...prevUser, [name]: value }));

  };

  const handleSubmit = (e) => {

    e.preventDefault();

    const newUser = user;

    setUserList([...userList, newUser]);

    setUser({ name: "", email: "", age: 10 });

  };

  const handleDelete = (index) => {

    setUserList(userList.filter((\_, i) => i !== index));

  };

  return (

    <div>

      <h1>Users</h1>

      <form onSubmit={handleSubmit}>

        <input

          type="text"

          name="name"

          value={user.name}

          onChange={handleChange}

          required

          placeholder="Enter name"

        />

        <input

          type="email"

          name="email"

          value={user.email}

          onChange={handleChange}

          required

          placeholder="Enter email"

        />

        <input

          type="number"

          name="age"

          value={user.age}

          onChange={handleChange}

          required

        />

        <input type="submit" value="Submit" />

      </form>

      <div className="allusers">

        {userList.length === 0 ? (

          <h3>No users</h3>

        ) : (

          userList.map((user, index) => (

            <div className="user" key={index}>

              <div className="username">Name: {user.name}</div>

              <div className="useremail">Email: {user.email}</div>

              <div className="userage">Age: {user.age}</div>

              <button onClick={() => handleDelete(index)}>Delete User</button>

            </div>

          ))

        )}

      </div>

    </div>

  );

};

export default UserHome;

**Output:**

