Ex. No: 5	React App Development
22.08.2023	

Aim:

To create an app using React with Components, Rendering, and Data Sharing.

Program:

App.js

```
import React, { useState, useEffect } from "react";
import { v4 as uuid } from "uuid";
import "./App.css";
import Header from "./Header";
import AddContact from "./AddContact";
import ContactList from "./ContactList";
function App() {
  const LOCAL_STORAGE_KEY = "contacts";
  const [contacts, setContacts] = useState(
    JSON.parse(localStorage.getItem(LOCAL_STORAGE_KEY)) ?? []
  );
  const addContactHandler = (contact) => {
    console.log(contact);
    setContacts([...contacts, { id: uuid(), ...contact }]);
  };
  const removeContactHandler = (id) => {
    const newContactList = contacts.filter((contact) => {
     return contact.id !== id;
   });
    setContacts(newContactList);
  };
 // useEffect(() => {
  // const retriveContacts =
JSON.parse(localStorage.getItem(LOCAL STORAGE KEY));
 // if (retriveContacts) setContacts(retriveContacts);
  useEffect(() => {
    localStorage.setItem(LOCAL_STORAGE_KEY, JSON.stringify(contacts));
  }, [contacts]);
  return (
```

App.css

```
.main {
    margin-top: 5em;
}

.center {
    justify-content: center;
    padding: 10px;
}

.ui.search input {
    width: 100%;
    border-radius: 0 !important;
}

.item {
    padding: 15px 0px !important;
}

i.icon {
    float: right;
    font-size: 20px;
    cursor: pointer;
}
```

AddContact.js

```
import React from "react";

class AddContact extends React.Component {
    state = {
        name: "",
        email: "",
    };

add = (e) => {
        e.preventDefault();
        if (this.state.name === "" || this.state.email === "") {
            alert("ALl the fields are mandatory!");
            return;
    }
}
```

```
this.props.addContactHandler(this.state);
    this.setState({ name: "", email: "" });
  };
  render() {
    return (
      <div className="ui main">
        <h2>Add Contact</h2>
        <form className="ui form" onSubmit={this.add}>
          <div className="field">
            <label>Name</label>
            <input
              type="text"
              name="name"
              placeholder="Name"
              value={this.state.name}
              onChange={(e) => this.setState({ name: e.target.value })}
          </div>
          <div className="field">
            <label>Email</label>
            <input</pre>
              type="text"
              name="email"
              placeholder="Email"
              value={this.state.email}
              onChange={(e) => this.setState({ email: e.target.value })}
          </div>
          <button className="ui button blue">Add</button>
        </form>
      </div>
    );
export default AddContact;
```

ContactCard.js

ContactList.js

```
import React from "react";
import ContactCard from "./ContactCard";
const ContactList = (props) => {
 console.log(props);
  const deleteConactHandler = (id) => {
    props.getContactId(id);
  };
  const renderContactList = props.contacts.map((contact) => {
    return (
     <ContactCard
        contact={contact}
        clickHander={deleteConactHandler}
        key={contact.id}
   );
 });
 return <div className="ui celled list">{renderContactList}</div>;
};
export default ContactList;
```

Header.js

export default Header;

Output:

Due to some errors in code, output isn't available.

Result:

Therefore, we've successfully an app using React with Components, Rendering, and Data Sharing.