# **Internship Report – Frontend Dev**

## Week 6: React.js Basics

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**Internship Domain: Front-end Intern** 

Task: Mini-Project: User Info Collector Form

## **Task Overview: (Day5)**

Today's task was to build a **Mini Project in React.js** that incorporates all the concepts learned during Week 6 of the internship. The project chosen was "**User Info Collector App**", where users can enter their details (name, email, gender), add multiple users to a list, and manage the list dynamically.

## **Objective:**

The objective was to:

- Practice building a React application using functional components.
- Manage and update data dynamically using React state and event handling.
- Implement conditional rendering, lists with .map().
- Use the useEffect hook to handle side effects.

## **Mini-Project: User Info Collector**

This project is a simple form based React application that **collects user information (name, email, and gender)**, stores it in a dynamic list, and displays all added users in a clean, horizontal layout. It includes features to **validate input fields, delete individual users**, and **shows popup messages for missing inputs**.

Additionally, the app uses useEffect to log changes in the user list, demonstrating the handling of side effects in React.

### **Concepts Used:**

The concepts used in this mini-project are:

- 1. JSX: Used to structure the UI of the form, buttons, and user list.
- **2. Functional Components:** The project is divided into components (Form, DisplayUser, Popup, and App) for modular code.
- **3. Props:** Data and functions (addUser, deleteUser, and showError) are passed as props between parent and child components.
- 4. State (useState): Used to manage form inputs and store the list of users dynamically.
- **5. Event Handling:** on Change, on Submit, and on Click events handle input changes, form submission, and delete actions.
- **6. Conditional Rendering:** Displays a "No users added yet" message when the user list is empty and conditionally renders the popup.
- 7. Lists with .map(): Renders multiple user entries dynamically as they are added.
- **8.** Forms: Includes text inputs, email input, and dropdown selection for gender.

- 9. Lifting State Up: The user list state is maintained in the parent (App) and passed down to child components.
- **10. useEffect:** Logs a message to the console whenever the user list is updated.
- 11. Basic Styling (CSS): Styled with a clean layout, buttons, popup alerts, and row-based user info display.

#### **Learning Outcomes:**

- Learned how to manage dynamic data efficiently using React state (useState) for form inputs and user lists.
- Improved understanding of event handling for form submissions, input changes, and deleting list items.
- Gained practical experience in conditional rendering and dynamically displaying components using .map().
- Understood the useEffect hook for handling side effects and monitoring state changes in React applications.

## Code: App.js:

```
▶ Ш …
JS App.js X # App.css
       function Form({ addUser, showError }) {
        const [name, setName] = useState("");
        const [email, setEmail] = useState("");
const [gender, setGender] = useState("");
        const handleSubmit = (e) => {
           e.preventDefault();
            showError(" ↑ Please fill out all fields before adding a user.");
           addUser({ name, email, gender });
           setName("");
           setEmail("");
           setGender("");
           <form onSubmit={handleSubmit} className="form-container">
               placeholder="Enter name"
               onChange={(e) => setName(e.target.value)}
                                                                                 Ln 107, Col 1 Spaces: 2 UTF-8 LF {} JavaScript 🔠 🏟 Go Live
```

```
⊳ Ш …
JS App.js X # App.css
 4 function Form({ addUser, showError }) {
             value={name}
             onChange={(e) => setName(e.target.value)}
             type="email"
             placeholder="Enter email"
             value={email}
            onChange={(e) => setEmail(e.target.value)}
          <select value={gender} onChange={(e) => setGender(e.target.value)}>
            <option value="">Select Gender</option>
             <option value="Male">Male</option>
             <option value="Female">Female</option>
            <option value="Other">Other</option>
           <button type="submit">Add User</button>
      function DisplayUser({ users, deleteUser }) {
       if (users.length === 0) {
         return No users added yet.;
           {users.map((user, index) => (
```

```
JS App.js X # App.css
                                                                                                 ▶ Ш …
48 function DisplayUser({ users, deleteUser }) {
         <strong>Name:</strong> {user.name}
            <strong>Email:</strong> {user.email}
            <strong>Gender:</strong> {user.gender}
            Delete
     function Popup({ message }) {
      return message ? <div className="popup">{message}</div> : null;
     function App() {
      const [users, setUsers] = useState([]);
      const [popupMessage, setPopupMessage] = useState("");
      const addUser = (user) => {
        setUsers((prevUsers) => [...prevUsers, user]);
                                                           Ln 107, Col 1 Spaces: 2 UTF-8 LF {} JavaScript ↔ ♠ ♠ Go Live ↓
```

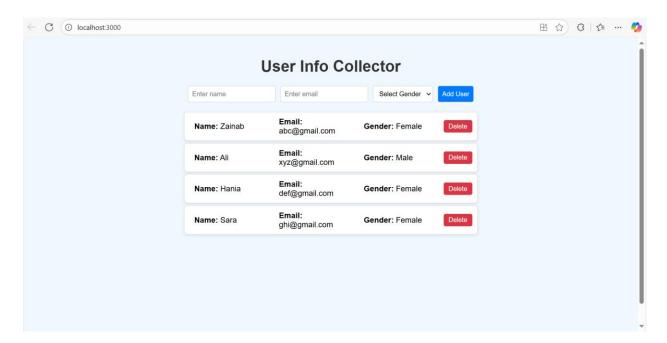
```
⊳ Ш …
JS App.js X # App.css
 73 function App() {
        const deleteUser = (index) => {
         setUsers((prevUsers) => prevUsers.filter((_, i) => i !== index));
       const showError = (msg) => {
         setPopupMessage(msg);
         setTimeout(() => setPopupMessage(""), 3000);
        useEffect(() => {
        if (users.length > 0) {
          console.log("Users list updated!", users);
        }, [users]);
         <div className="app-container">
          <h1>User Info Collector</h1>
            <Form addUser={addUser} showError={showError} />
           <DisplayUser users={users} deleteUser={deleteUser} />
          <Popup message={popupMessage} />
      export default App;
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                                                                         Ln 107, Col 1 Spaces: 2 UTF-8 LF {} JavaScript 😝 🏟 Go Live 🚨
```

#### App.css:

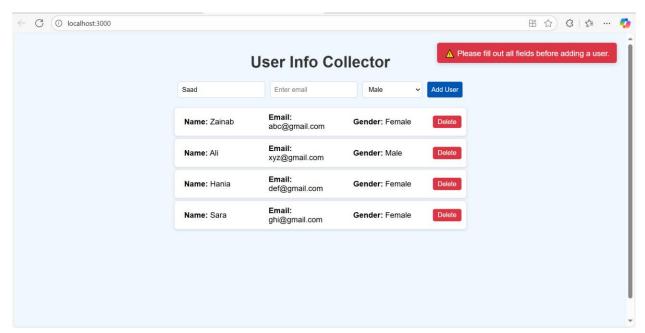
```
▷ □ …
         # App.css X
.app-container {
  text-align: center;
  font-family: Arial, sans-serif;
   padding: 20px;
   background-color: ■#f0f8ff;
  min-height: 100vh;
  color: □#333;
 .form-container {
  display: flex;
   gap: 10px;
   justify-content: center;
   margin-bottom: 20px;
 input, select, button {
  padding: 8px;
   border: 1px solid ■#ccc;
  border-radius: 4px;
 button {
  background-color: ☐#007bff;
   color: ☐white;
  cursor: pointer;
background-color: □#0056b3;
                                                                       Ln 63, Col 2 Spaces: 2 UTF-8 LF {} CSS 🔠 🏟 Go Live 🚨
```

```
▶ □ …
         # App.css X
 button:hover {
  background-color: □#0056b3;
ul {
 list-style-type: none;
  padding: 0;
   max-width: 600px;
  margin: 0 auto;
 .user-card {
  display: flex;
   justify-content: space-between;
  align-items: center;
background-color: ■white;
   padding: 10px;
   margin: 5px 0;
  border: 1px solid ■#ddd;
   border-radius: 6px;
  box-shadow: 0px 2px 5px □rgba(0, 0, 0, 0.1);
   margin: 0 10px;
   flex: 1;
   text-align: left;
 .no-user {
                                                                          Ln 63, Col 2 Spaces: 2 UTF-8 LF {} CSS 😝 🏟 Go Live
```

```
▷ □ …
      # App.css X
.no-user {
 color: ■gray;
.error-msg { | color: □red;
 margin-top: 2px;
.delete-btn {
background-color: ■#dc3545;
 color: white;
border: none;
 padding: 5px 10px;
 border-radius: 4px;
.delete-btn:hover {
 background-color: ■#c82333;
.popup {
 top: 20px;
 right: 20px;
 background-color: ■#dc3545;
 color: ■white;
 padding: 10px 15px;
 border-radius: 5px;
 box-shadow: 0px 2px 8px ☐rgba(0, 0, 0, 0.2);
 z-index: 1000;
```



#### Error msg if all fields are not filled:



#### **Conclusion:**

This mini-project demonstrated the key React.js concepts learned in Week 6, including state management, event handling, and useEffect. It provided hands-on experience in building a dynamic, component-based application, strengthening my understanding of front-end development.