Ex. No.: 04	How To Move Data From View Controller
Date: 14/08/2024	

Aim:

To create a simple React application that allows users to input their name and two course names, which can then be processed or displayed. This application demonstrates form handling, state management, and user interaction in React.

Procedure:

1. Setup Environment:

- Ensure you have Node.js and npm installed on your system.
- Create a new React application using Create React App:

bash

npx create-react-app name-course-collection

cd name-course-collection

2. Create the App Component:

- Replace the code in src/App.js with the provided code for collecting user information.

3. Import useState:

- Import useState from React to manage the state for user inputs.

4. Define State Variables:

- Create three state variables using the useState hook:
- name for storing the user's name (initialized to an empty string).
- course 1 for storing the first course name (initialized to an empty string).
- course2 for storing the second course name (initialized to an empty string).

5. Handle Form Submission:

- Define a function handleSubmit to handle the form submission:
- Use event.preventDefault() to prevent the default form submission behavior (which would cause a page reload).
- Log the values of name, course1, and course2 to the console.
- Display an alert showing the collected information.
- Clear the input fields by resetting the state variables to empty strings.

6. Render the UI:

- Create a centered layout for the form using inline styles.
- Render a form with three input fields for name and course entries, and a submit button:
- Each input field is linked to its corresponding state variable and updates its value through on Change events.
- The submit button triggers the handleSubmit function when clicked.

7. Styling:

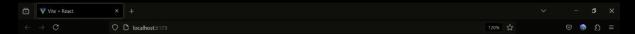
- Use inline styles for the inputs and button to enhance the user interface.

Source Code:

```
import { useState } from 'react';
function App() {
 const [name, setName] = useState("); // State to store user name
 const [course1, setCourse1] = useState("); // State to store first course
 const [course2, setCourse2] = useState("); // State to store second course
 // Controller function to handle form submission
 const handleSubmit = (event) => {
  event.preventDefault(); // Prevents page reload on form submission
  // Logging the collected data (you can process it further or send it to backend)
  console.log("Name:", name);
  console.log("Course 1:", course1);
  console.log("Course 2:", course2);
  // Example of using the data
  alert(Name: ${name}\nCourse 1: ${course1}\nCourse 2: ${course2});
  // Optionally clear the input fields after submission
  setName(");
  setCourse1(");
  setCourse2(");
 };
```

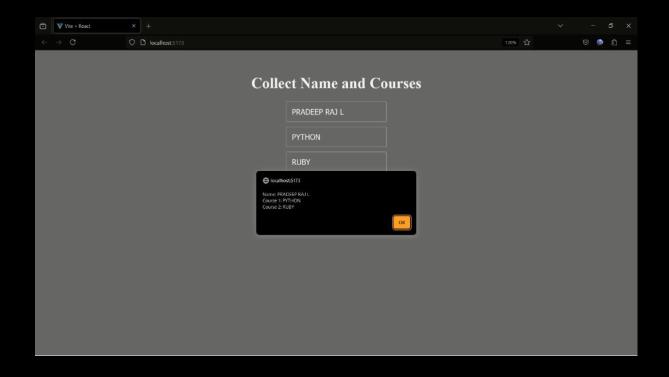
```
return (
 <div style={{ textAlign: 'center', marginTop: '50px' }}>
  <h1>Collect Name and Courses</h1>
  {/* Form or View */}
  <form onSubmit={handleSubmit}>
   {/* Input for Name */}
   <input
    type="text"
    placeholder="Enter your name"
    value={name}
    onChange={(event) => setName(event.target.value)} // Updates the name state
    style={{ padding: '10px', fontSize: '16px', marginBottom: '10px' }}
   <br >
   {/* Input for Course 1 */}
   <input
    type="text"
    placeholder="Enter course name 1"
    value={course1}
    onChange={(event) => setCourse1(event.target.value)} // Updates the first course state
    style={{ padding: '10px', fontSize: '16px', marginBottom: '10px' }}
   <br/>>
   {/* Input for Course 2 */}
   <input
    type="text"
    placeholder="Enter course name 2"
    value={course2}
```

Output:



Collect Name and Courses





Result:

The Name and Courses Collection application allows users to input their name and two course names. Upon submitting the form, the following occurs:

- The application prevents the page from reloading and logs the inputs to the console.
- An alert is displayed showing the collected information:
- Name: Displays the user's name.
- Course 1: Displays the first course name