Training Day 15

TOPICS COVERED

• React Router - Navigation in React

React Router is a standard library used for routing in React applications. It allows navigation between components/pages without refreshing the page — ideal for building single-page applications (SPAs).

Key Concepts:

BrowserRouter: Wraps the entire app to enable routing

Routes: Contains all the route definitions

Route: Defines a path and its corresponding component

Link/NavLink: Used for navigation (instead of <a>)

Basic Example:

```
</BrowserRouter>
);
}
```

• Reading Input Data using useState()

To capture and use input data in a React form, the useState hook is commonly used to create controlled components.

Steps:

Create a state variable for the input

Set its value using onChange

Access the value during form submission or dynamically

Example:

```
import { useState } from 'react';
function NameForm() {
  const [name, setName] = useState(");
  const handleChange = (e) => {
    setName(e.target.value);
  };
  const handleSubmit = (e) => {
    e.preventDefault();
    alert(`Hello, ${name}!');
  };
  return (
    <form onSubmit={handleSubmit}>
```

TOOLS USED

Visual Studio Code

React Developer Tools Extension

react-router-dom (installed using npm install react-router-dom)

Chrome DevTools