

## 2. Implement the Routing and Form Handling for developing a web application using React JS

**Code:**

**App.js**

```
import React from "react";
import { BrowserRouter as Router, Routes, Route, Link } from "react-router-dom";
import Home from "./components/Home";
import Contact from "./components/Contact";
import About from "./components/About";

function App() {
  return (
    <Router>
      <div style={{ textAlign: "center", padding: "20px" }}>
        <h1>React Routing & Form Handling</h1>
        <nav>
          <Link to="/" style={{ margin: "10px" }}>Home</Link>
          <Link to="/about" style={{ margin: "10px" }}>About</Link>
          <Link to="/contact" style={{ margin: "10px" }}>Contact</Link>
        </nav>
      <Routes>
        <Route path="/" element={<Home />} />
        <Route path="/about" element={<About />} />
        <Route path="/contact" element={<Contact />} />
      </Routes>
    </div>
  </Router>
);
}

export default App;
```

**Home.js**

```
import React from "react";

function Home() {
  return (
    <div>
      <h2>Welcome to Home Page</h2>
      <p>This is a simple React app with Routing and Form Handling.</p>
    </div>
  );
}

export default Home;
```

**Contact.js**

```
import React, { useState } from "react";

function Contact() {
  const [formData, setFormData] = useState({
    name: "",
    email: "",
    message: ""
  });
}
```

```
const handleChange = (e) => {
  setFormData({ ...formData, [e.target.name]: e.target.value });
};

const handleSubmit = (e) => {
  e.preventDefault();
  alert(`Form Submitted!\nName: ${formData.name}\nEmail: ${formData.email}\nMessage: ${formData.message}`);
  setFormData({ name: "", email: "", message: "" }); // reset
};

return (
  <div>
    <h2>Contact Us</h2>
    <form onSubmit={handleSubmit} style={{ display: "flex", flexDirection: "column", width: "300px", margin: "auto" }}>
      <input
        type="text"
        name="name"
        placeholder="Enter your name"
        value={formData.name}
        onChange={handleChange}
        required
      />
      <input
        type="email"
        name="email"
        placeholder="Enter your email"
        value={formData.email}
        onChange={handleChange}
        required
      />
      <textarea
        name="message"
        placeholder="Enter your message"
        value={formData.message}
        onChange={handleChange}
        required
      />
      <button type="submit" style={{ marginTop: "10px" }}>Submit</button>
    </form>
  </div>
);
}

export default Contact;
```

**Screenshot:**

The screenshot displays two pages of a React application running at `localhost:3000`. The browser window has a tab labeled "React App".

**Home Page Content:**

# React Routing & Form Handling

[Home](#) [About](#) [Contact](#)

## Welcome to Home Page

This is a simple React app with Routing and Form Handling.

**About Page Content:**

# React Routing & Form Handling

[Home](#) [About](#) [Contact](#)

## About Us

This is the About page. Routing makes navigation easy in React.

localhost:3000 says

Form Submitted!

Name: S. Janani

Email: janani@gmail.com

Message: Hi I like this

OK

S. Janani

janani@gmail.com

Hi I like this

Submit