

TASK

Basic Routing

Create a simple React application with routing using React Router. Implement basic routes for Home, About, Services, and Contact pages.

Requirements:

Setup:

Set up a new React application with React Router.

Create separate components for Home, About, Services, and Contact pages.

Routing:

Implement routing using BrowserRouter, Route, and Switch.

Define routes for Home, About, Services, and Contact pages.

Navigation:

Use Link component to navigate between different routes.

Additional Challenges:

Add a navigation bar with links to Home, About, Services, and Contact pages.

Style the navigation bar using CSS for better visual appeal.

Solution –

App.js

```
import React from "react";

import { BrowserRouter as Router, Routes, Route, Link } from "react-router-dom";

import "./App.css";

// Components for each page

function Home() {
  return <h1>Welcome to the Home Page</h1>;
}

function About() {
  return <h1>About Us</h1>;
}

function Services() {
  return <h1>Our Services</h1>;
}

function Contact() {
  return <h1>Contact Us</h1>;
}

// Main App Component

function App() {
  return (
    <Router>
      <div className="app">
```

```

    { /* Navigation Bar */ }

    <nav className="navbar">
      <Link to="/" className="nav-link">Home</Link>
      <Link to="/about" className="nav-link">About</Link>
      <Link to="/services" className="nav-link">Services</Link>
      <Link to="/contact" className="nav-link">Contact</Link>
    </nav>

    { /* Define Routes */ }

    <Routes>
      <Route path="/" element={ <Home /> } />
      <Route path="/about" element={ <About /> } />
      <Route path="/services" element={ <Services /> } />
      <Route path="/contact" element={ <Contact /> } />
    </Routes>

  </div>

</Router>

);
}

export default App;

```

```
JS App.js x # App.css
basic-routing-app > src > JS App.js > App
1 import React from "react";
2 import { BrowserRouter as Router, Routes, Route, Link } from "react-router-dom";
3 import "./App.css";
4
5 // Components for each page
6 function Home() {
7   return <h1>Welcome to the Home Page</h1>;
8 }
9
10 function About() {
11   return <h1>About Us</h1>;
12 }
13
14 function Services() {
15   return <h1>Our Services</h1>;
16 }
17
18 function Contact() {
19   return <h1>Contact Us</h1>;
20 }
21
22 // Main App Component
23 function App() {
24   return (
25     <Router>
26       <div className="app">
27         /* Navigation Bar */
28         <nav className="navbar">
```

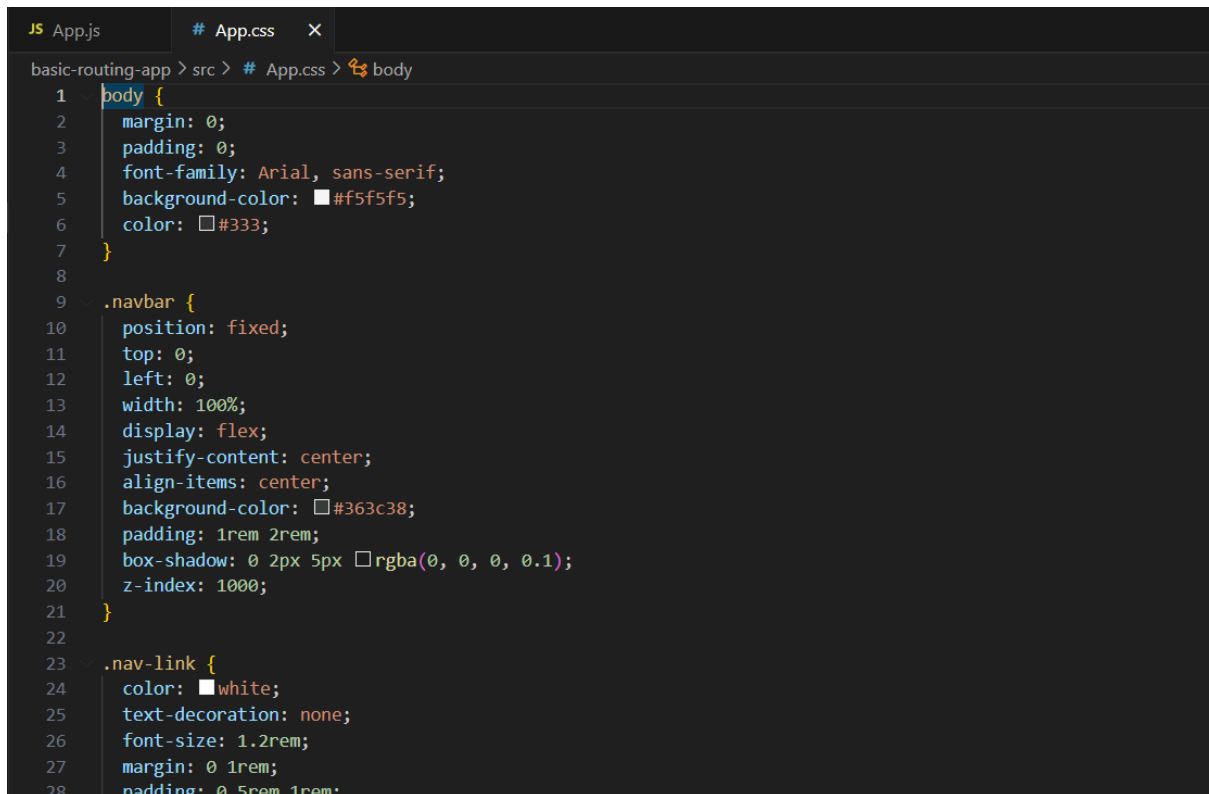
```
JS App.js x # App.css
basic-routing-app > src > JS App.js > App
21
22 // Main App Component
23 function App() {
24   return (
25     <Router>
26       <div className="app">
27         /* Navigation Bar */
28         <nav className="navbar">
29           <Link to="/" className="nav-link">Home</Link>
30           <Link to="/about" className="nav-link">About</Link>
31           <Link to="/services" className="nav-link">Services</Link>
32           <Link to="/contact" className="nav-link">Contact</Link>
33         </nav>
34
35         /* Define Routes */
36         <Routes>
37           <Route path="/" element={<Home />} />
38           <Route path="/about" element={<About />} />
39           <Route path="/services" element={<Services />} />
40           <Route path="/contact" element={<Contact />} />
41         </Routes>
42       </div>
43     </Router>
44   );
45 }
46
47 export default App;
```

App.css

```
body {  
  margin: 0;  
  padding: 0;  
  font-family: Arial, sans-serif;  
  background-color: #f5f5f5;  
  color: #333;  
}  
  
.navbar {  
  position: fixed;  
  top: 0;  
  left: 0;  
  width: 100%;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  background-color: #363c38;  
  padding: 1rem 2rem;  
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);  
  z-index: 1000;  
}  
  
.nav-link {  
  color: white;  
  text-decoration: none;  
  font-size: 1.2rem;  
  margin: 0 1rem;  
  padding: 0.5rem 1rem;
```

```
border-radius: 4px;
transition: background-color 0.3s ease;
}
.nav-link:hover {
  background-color: #65623c;
}
.app {
  text-align: center;
  margin-top: 4rem; /* Adjusted to account for fixed navbar */
}
h1 {
  font-size: 2.5rem;
  color: #ca5c37;
  margin-bottom: 1rem;
}
button {
  background-color: #34495e;
  color: white;
  border: none;
  padding: 0.75rem 1.5rem;
  font-size: 1rem;
  border-radius: 4px;
  cursor: pointer;
  transition: background-color 0.3s ease;
}
button:hover {
  background-color: #2c3e50;
```

```
}  
  
.container {  
  max-width: 800px;  
  margin: 0 auto;  
  padding: 1rem;  
  background: white;  
  border-radius: 8px;  
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);  
}
```



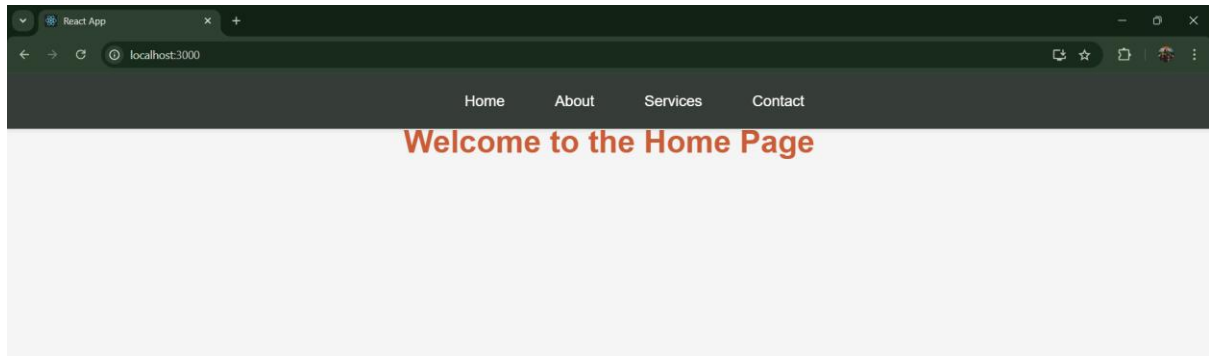
```
JS App.js # App.css X  
basic-routing-app > src > # App.css > body  
1 body {  
2   margin: 0;  
3   padding: 0;  
4   font-family: Arial, sans-serif;  
5   background-color: #f5f5f5;  
6   color: #333;  
7 }  
8  
9 .navbar {  
10  position: fixed;  
11  top: 0;  
12  left: 0;  
13  width: 100%;  
14  display: flex;  
15  justify-content: center;  
16  align-items: center;  
17  background-color: #363c38;  
18  padding: 1rem 2rem;  
19  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);  
20  z-index: 1000;  
21 }  
22  
23 .nav-link {  
24  color: white;  
25  text-decoration: none;  
26  font-size: 1.2rem;  
27  margin: 0 1rem;  
28  padding: 0.5rem 1rem;
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```
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37 .app {
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42 h1 {
43   font-size: 2.5rem;
44   color: #ca5c37;
45   margin-bottom: 1rem;
46 }
47
48 button {
49   background-color: #34495e;
50   color: white;
51   border: none;
52   padding: 0.75rem 1.5rem;
53   font-size: 1rem;
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```

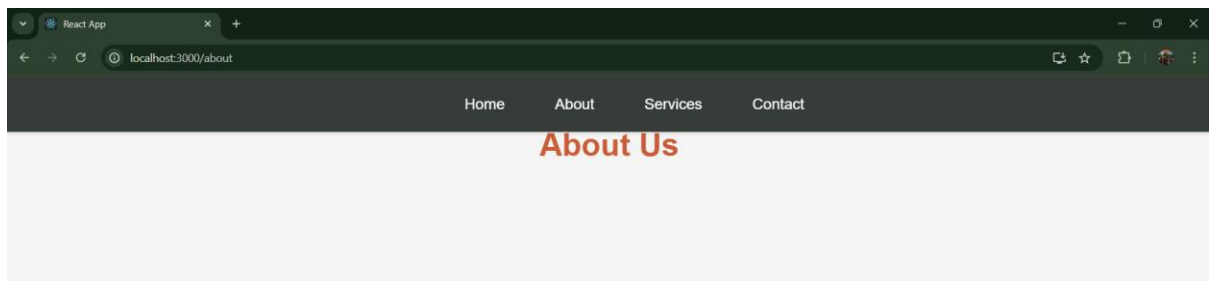
```
JS App.js # App.css X
basic-routing-app > src > # App.css > body
48 button {
49   color: white;
50   border: none;
51   padding: 0.75rem 1.5rem;
52   font-size: 1rem;
53   border-radius: 4px;
54   cursor: pointer;
55   transition: background-color 0.3s ease;
56 }
57
58
59 button:hover {
60   background-color: #2c3e50;
61 }
62
63 .container {
64   max-width: 800px;
65   margin: 0 auto;
66   padding: 1rem;
67   background: white;
68   border-radius: 8px;
69   box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
70 }
71
```


OUTPUT –

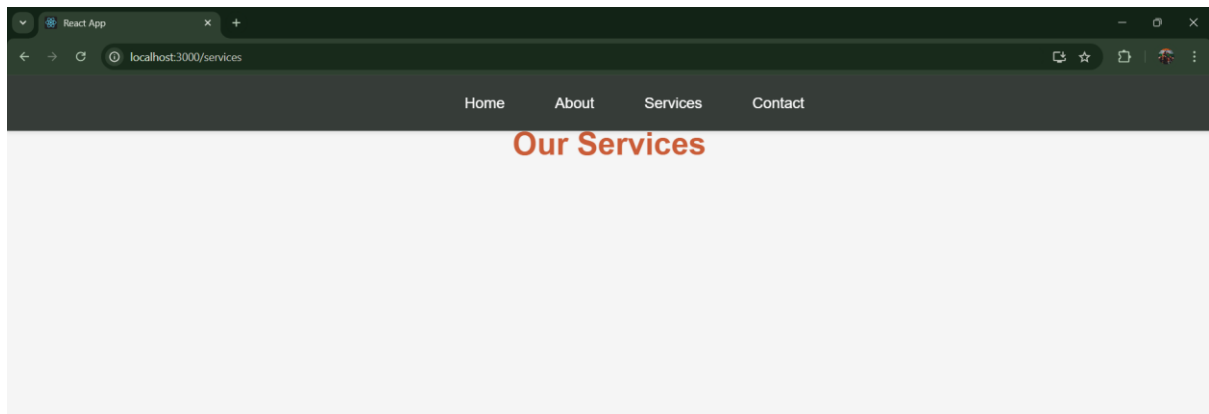
On Home Page



After Clicking on the About Button



After Clicking on the Service Button



After Clicking on the Contact Button

