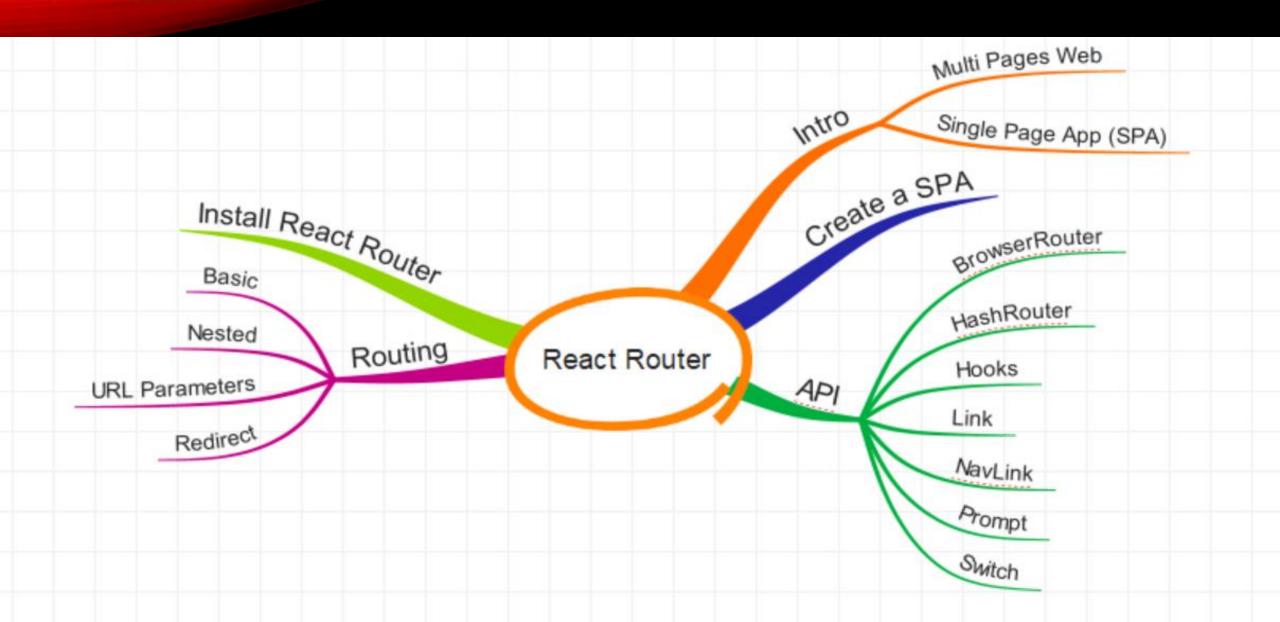


# REACT

# ROUTER

# SINGLE PAGE APP WITH REACT ROUTER

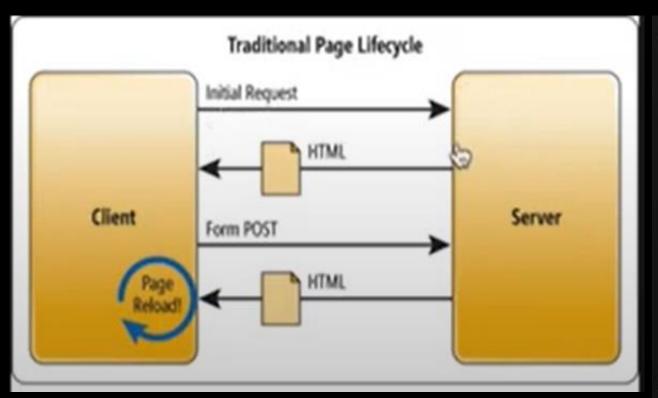


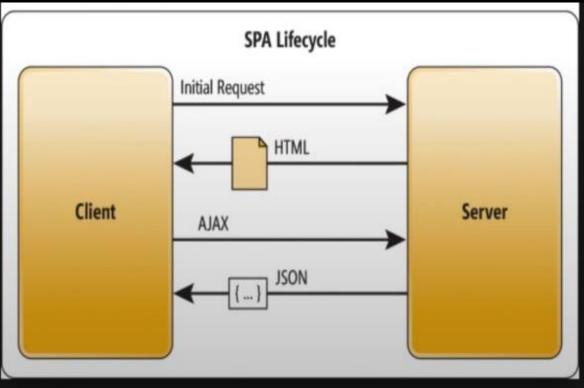












#### SINGLE PAGE APP



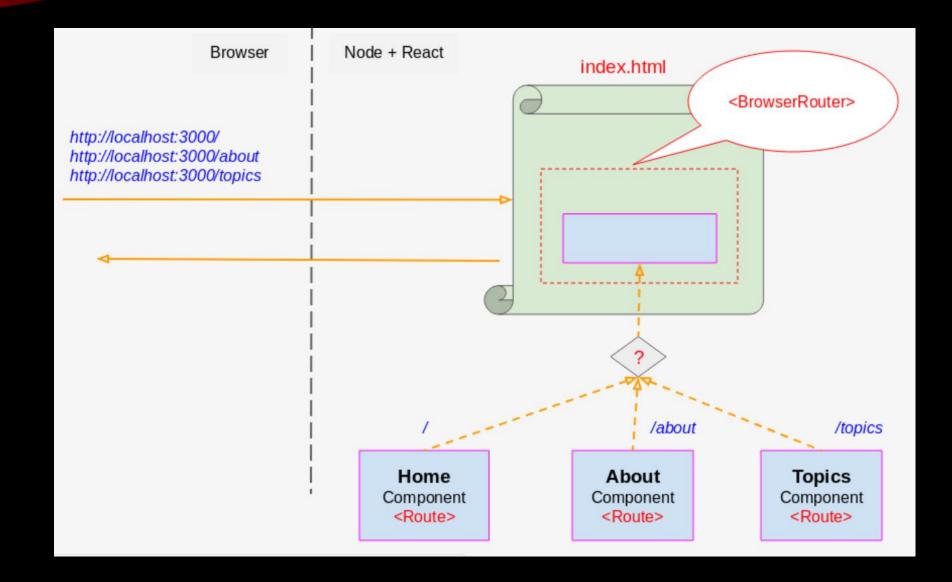
• A single-page application (SPA) is a website that re-renders its content in response to navigation actions (e.g. clicking a link) without making a request to

the server to fetch new HTML.

#### **Location Primer** While the URL in the address bar is what users see and interact with, SPAs use window.location. This allows you to interact with the different parts of the URL without having to parse it yourself. https://www.example.com/one?key=value#trending location = { protocol: "https:", hostname: "www.example.com", pathname: "/one", search: "?key=value", < hash: "#trending" The window.location properties map directly from the URL

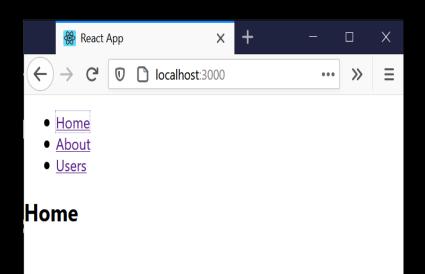
# SPA – BASIC ROUTER

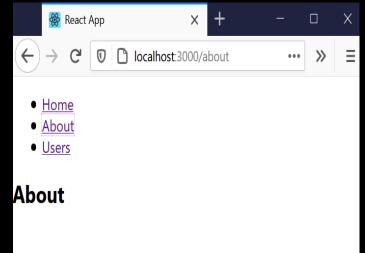


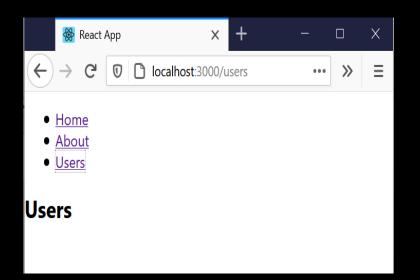


# SPA - BASIC ROUTER



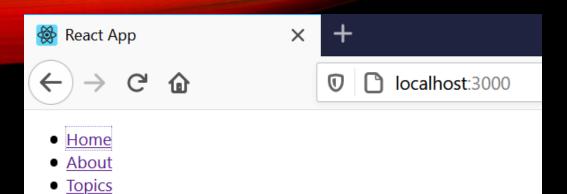




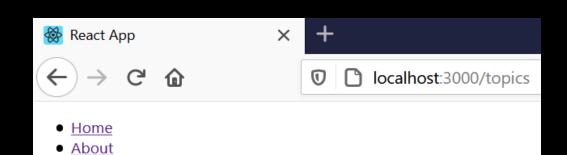


# ROUTING SPA





#### Home

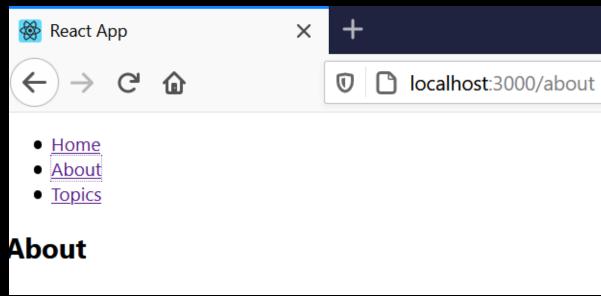


#### Topics

Topics

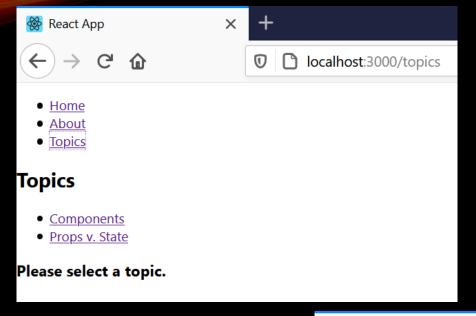
- Components
- Props v. State

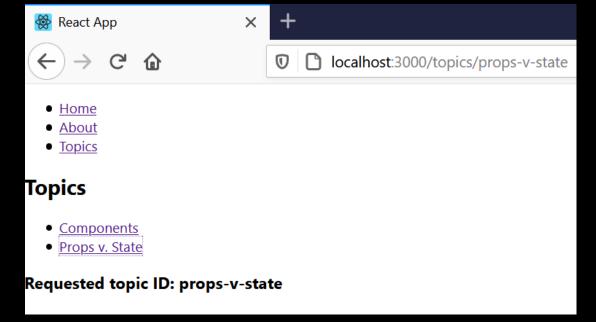
Please select a topic.

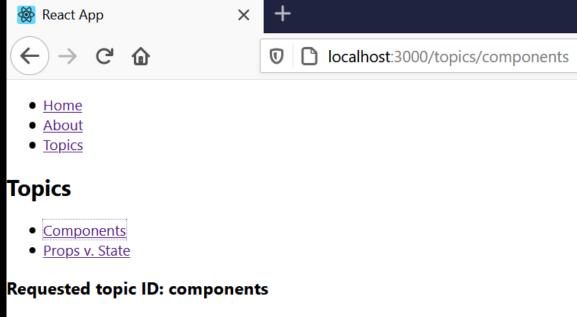


#### SPA -ROUTER









#### DEMO



PS D:\SeminarReactHooks\Slides\LabReact\Session4\_SPA\_Router> npm i react-router-dom

PS D:\SeminarReactHooks\Slides\LabReact\Session4\_SPA\_Router> create-react-app lab2-s

pa-router

```
"name": "lab2-spa-router",
"version": "0.1.0",
"private": true,
"dependencies": {
  "@testing-library/jest-dom": "^4.2.4",
  "@testing-library/react": "^9.5.0",
  "@testing-library/user-event": "^7.2.1",
  "react": "^16.13.1",
  "react-dom": "^16.13.1",
  "react-scripts": "3.4.3"
▶ Debug
"scripts": {
  "start": "react-scripts start",
  "build": "react-scripts build",
  "test": "react-scripts test",
  "eject": "react-scripts eject"
"eslintConfig": {
  "extends": "react-app"
"browserslist": {
```

#### DEMO



```
X
Js App.js
lab1-spa-router > src > Js App.js > 🕅 App
        You, a few seconds ago | 1 author (You)
        import React from 'react';
        import {
          BrowserRouter as Router,
          Switch,
          Route,
          Link
         from "react-router-dom";
        import './App.css';
```

#### DEMO: SPA-BASIC ROUTER

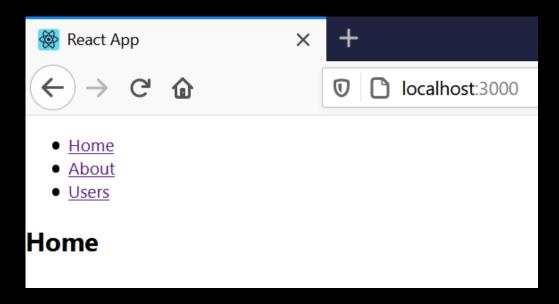


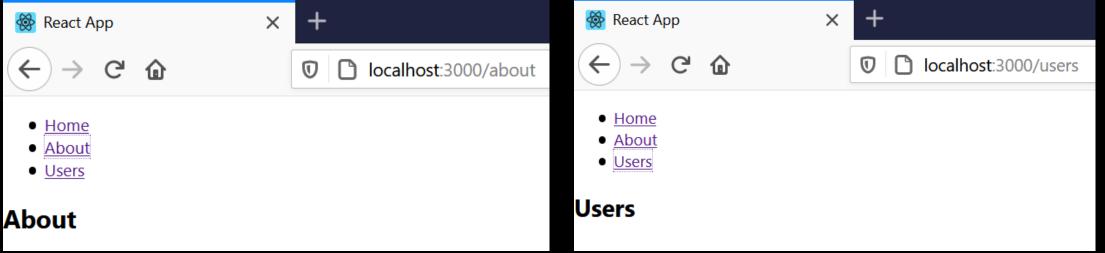
```
function App() {
 return (
   <Router>
     <div>
      <nav>
        <u1>
          <Link to="/">Home</Link>
          <
           <Link to="/about">About</Link>
          <Link to="/users">Users</Link>
          </nav>
```

```
\{/* A < Switch > looks through its children < Route > s and
   <Switch>
      <Route path="/about">
        <About />
      </Route>
      <Route path="/users">
        <Users />
      </Route>
      <Route path="/">
        <Home />
      </Route>
    </Switch>
 </div>
</Router>
```

## DEMO: SPA-BASIC ROUTER

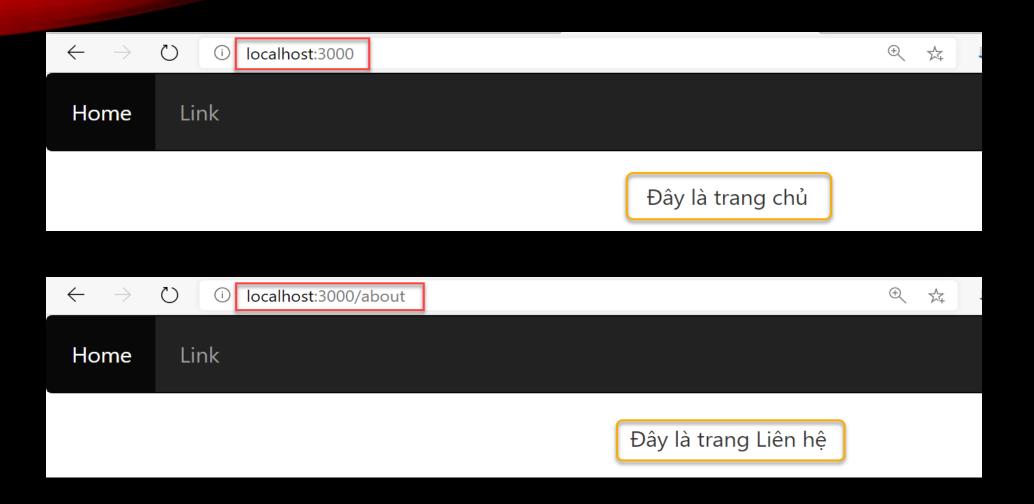






# DO IT YOUR SELF





#### SOLUTION

```
Aptech

COMPUTER EDUCATION

Unleash your potential

Alliance with FPT Education
```

```
import React, { Component } from 'react';
                      import Router
import './App.css';
import { BrowserRouter as Router, Route } from 'react-router-dom';
class App extends Component {
   render() {
       return (
          <div className="App">
              {/* Menu */}
              <nav className="navbar navbar-inverse">
                 <a>Trang Chů</a>
                    <
                        <a>Liên Hệ</a>
                     </nav>
              {/* Nội Dung */}
          </div>
 OUTPUT
       DEBUG CONSOLE
                 TERMINAL
```

### DEMO – ROUTER



```
✓ LAB5-ROUTER

 node_modules
 public
src src

∃ App.css

  Js App.js
  Js App.test.js
  index.css
  Js index.js
  7º logo.svg
  Js serviceWorker.js
  Js setupTests.js
 • .gitignore
 package-lock.json
```

```
You, a few seconds ago | 1 author (You)

import React from "react";

import { You, a few seconds age

BrowserRouter as Router,

Switch,

Route,

Link,

useRouteMatch,

useParams

} from "react-router-dom";
```

```
export default function App() {
 return (
                            Menu
   <Router>
     <div>
      <u1>
        <
          <Link to="/">Home</Link>
        <
          <Link to="/about">About</Link>
        <
          <Link to="/topics">Topics</Link>
```

#### DEMO - ROUTER



```
<Switch>
      <Route path="/about">
        <About />
      </Route>
      <Route path="/topics">
        <Topics />
      </Route>
      <Route path="/">
        <Home />
                    routing
      </Route>
    </Switch>
  </div>
</Router>
```

```
function Home() {
  return <h2>Home</h2>;
                                              functional
                                             components
function About() {
  return <h2>About</h2>;
function Topics() {
  let match = useRouteMatch();
  return (
    <div>
      <h2>Topics</h2>
      <u1>
        <1i>>
         <Link to={`${match.url}/components`}>Components</Link>
        <1i>>
         <Link to={`${match.url}/props-v-state`}>
           Props v. State
         </Link>
```

#### NESTED ROUTING



```
function Home() {
                                                                     <Switch>
 return <h2>Home</h2>;
                                            functional
                                           components
function About() {
                                                                         <Topic />
 return <h2>About</h2>;
                                                                       </Route>
                                                                       <Route path={match.path}>
function Topics() {
  let match = useRouteMatch();
                                                                       </Route>
 return (
    <div>
                                                                     </Switch>
     <h2>Topics</h2>
                        You, a few seconds ago • Uncommitted c
                                                                   </div>
     <l
       <
         <Link to={`${match.url}/components`}>Components</Link>
       function Topic() {
       let { topicId } = useParams();
         <Link to={`${match.url}/props-v-state`}>
          Props v. State
         </Link>
```

```
<Route path={`${match.path}/:topicId`}>
        <h3>Please select a topic.</h3>
return <h3>Requested topic ID: {topicId}</h3>;
```

# THE END