

ReactJS. Front to backend. BT 2022

Project 2 - Github-finder

<https://github.com/PacktPublishing/React-Front-to-Back-2022>

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0 Hints

1 React basics and JSX

1.1 Intro

1.2 Setup Tailwind and Daisy UI

1.2.1 Tailwind

First of all you need to create a new project

CLI=> *npx create-react-app github-finder --use-npm*

Go to the new folder (github-finder)

CLI=> *npm install -D tailwindcss postcss autoprefixer*

CLI=> *npx tailwindcss init -p*

Open file **tailwind.config.js** and paste

```
/** @type {import('tailwindcss').Config} */
module.exports = {
  content: [
    "./src/**/*.{js,jsx,ts,tsx}",
  ],
  theme: {
    extend: {},
  },
  plugins: [],
}
```

Open **index.css**

```
@tailwind base;
@tailwind components;
@tailwind utilities;
```

1.2.2 Daisy UI

CLI=> `npm i daisyui`

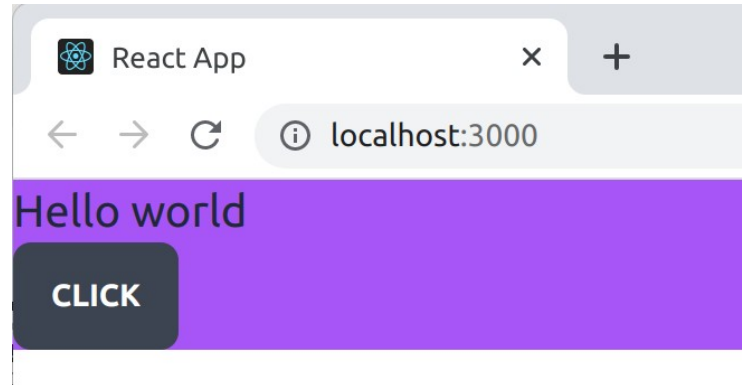
Open file `tailwind.config.js`

plugins: `[require('daisyui')],`

Now you can start your react app using `npm start`.

Change main component `App.js` => `App.jsx` (to be able to work with tag plugin)

```
App.jsx  U  X
github-finder > src > App.jsx > ...
1  import logo from './logo.svg';
2  import './App.css';
3
4  function App() {
5    return (
6      <div className='bg-purple-500'>
7        <h1 className='text-xl'>Hello world</h1>
8        <button className='btn'>Click</button>
9      </div>
10    );
11  }
12
13  export default App;
14
```



1.3 Navbar component

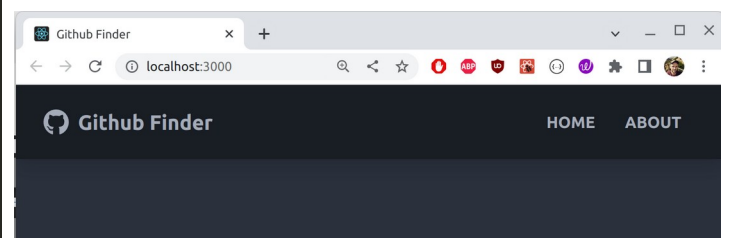
You need to install react-router-dom and react-icons

CLI=> `npm i react-router-dom react-icons`

Create a new **Navbar.jsx** component in github-finder/src/components/layout

```
Navbar.jsx U X
src > components > layout > Navbar.jsx > ...
1 import { FaGithub } from 'react-icons/fa';
2 import { Link } from 'react-router-dom';
3 import PropTypes from 'react';
4
5 const Navbar = ({ title }) => {
6   return (
7     <nav className='navbar mb-12 shadow-lg bg-neutral text-neutral-content'>
8       <div className='container mx-auto'>
9         <div className='flex-none px-2 mx-2'>
10           <FaGithub className='inline pr-2 text-3xl' />
11           <Link to='/' className='text-lg font-bold align-middle'>
12             {title}
13           </Link>
14         </div>
15         <div className='flex-1 px-2 mx-2'>
16           <div className='flex justify-end'>
17             <Link to='/' className='btn btn-ghost btn-sm rounded-btn'>
18               Home
19             </Link>
20             <Link to='/' className='btn btn-ghost btn-sm rounded-btn'>
21               About
22             </Link>
23           </div>
24         </div>
25       </div>
26     </nav>
27   );
28 };
29 Navbar.defaultProps = {
30   title: 'Github Finder',
31 };
32 Navbar.propTypes = {
33   title: PropTypes.string,
34 };
35 export default Navbar;
36
```

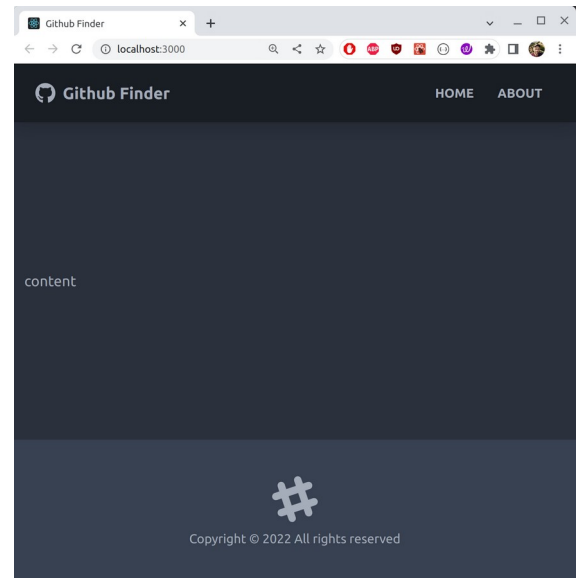
```
App.jsx M X
src > App.jsx > ...
1 import { BrowserRouter as Router, Route } from 'react-router-dom';
2 import Navbar from './components/layout/Navbar';
3 const App = () => {
4   return (
5     <Router>
6       <div className='flex flex-col justify-between h-screen'>
7         <Navbar />
8         <main>content</main>
9       </div>
10     </Router>
11   );
12 };
13
14 export default App;
```



1.4 Footer component

```
Footer.jsx U X
src > components > layout > Footer.jsx > ...
1  const Footer = props => {
2    const footerYear = new Date().getFullYear();
3    return (
4      <footer className='footer p-10 bg-gray-700 text-primary-content footer-center'>
5        <div>
6          <svg
7            width='50'
8            height='50'
9            viewBox='0 0 24 24'
10           xmlns='http://www.w3.org/2000/svg'
11           fillRule='evenodd'
12           clipRule='evenodd'
13           className='inline-block fill-current'
14         >
15           <path d='M22.672 15.226l-2.432 8.111 8.41 2.515c.33 1.019-.209 2.127-1.23 2.456-1.15.
16             325-2.148-.321-2.463-1.226l-.84-2.518-5.013 1.677 8.4 2.517c.391 1.203-.434 2.542-1.
17             831 2.542-.88 0-1.601-.564-1.86-1.314l-.842-2.516-2.431 8.09c-1.135 3.28-2.145-.317-2.
18             463-1.229-.329-1.018 2.11 2.127 1.231-2.456l2.432-.809-1.621-4.823-2.432 8.08c-1.355.
19             384-2.558-.59-2.558-1.839 0-.817 5.09-1.582 1.327-1.846l2.433-.809-.842-2.515c-.33-1.
20             02 2.11-2.129 1.232-2.458 1.02-.329 2.13 2.09 2.461 1.229l.842 2.515 5.011-1.677-.
21             839-2.517c-.403-1.238 4.84-2.553 1.843-2.553 8.19 0 1.585 5.09 1.85 1.326l.841 2.517 2.
22             431-.81c1.02-.33 2.131 2.11 2.461 1.229 3.32 1.018-.21 2.126-1.23 2.456l-2.433 8.09 1.
23             622 4.823 2.433-.809c1.242-.401 2.557 4.84 2.557 1.838 0 .819-.51 1.583-1.328 1.
24             847m-8.992-6.428l-5.01 1.675 1.619 4.828 5.011-1.674-1.62-4.829z'></path>
25           </svg>
26           <p>Copyright &copy; {footerYear} All rights reserved</p>
27         </div>
28       </footer>
29     );
30   };
31   export default Footer;
```

```
App.jsx M X
src > App.jsx > ...
1  import { BrowserRouter as Router, Route } from 'react-router-dom';
2  import Navbar from './components/layout/Navbar';
3  import Footer from './components/layout/Footer';
4  const App = () => {
5    return (
6      <Router>
7        <div className='flex flex-col justify-between h-screen'>
8          <Navbar />
9          <main className='container mx-auto px-3 pb-12'>content</main>
10         <Footer />
11       </div>
12     </Router>
13   );
14 };
15
16 export default App;
```



1.5 Main Pages and routes

Create a new folder github-finder/src/pages to store components for all the main pages

Create Home.jsx, About.jsx and NotFound.jsx components

```
App.jsx M X
src > App.jsx > ...
1 import { BrowserRouter as Router, Route, Routes } from 'react-router-dom';
2 import Navbar from './components/layout/Navbar';
3 import Footer from './components/layout/Footer';
4 import Home from './pages/Home';
5 import About from './pages/About';
6 import NotFound from './pages/NotFound';
7
8 const App = () => {
9   return (
10     <Router>
11       <div className='flex flex-col justify-between h-screen'>
12         <Navbar />
13         <main className='container mx-auto px-3 pb-12'>
14           <Routes>
15             <Route path='/' element={ <Home /> } />
16             <Route path='/about' element={ <About /> } />
17             <Route path='/notfound' element={ <NotFound /> } />
18             <Route path='/*' element={ <NotFound /> } />
19           </Routes>
20         </main>
21         <Footer />
22       </div>
23     </Router>
24   );
25 };
26
27 export default App;
```

```
About.jsx U X
src > pages > About.jsx > ...
1 const About = props => {
2   return (
3     <div>
4       <h1 className='text-6xl mb-4'>GitHub Finder</h1>
5     </div>
6   );
7 };
8
9 export default About;
```

```
Home.jsx U X
src > pages > Home.jsx > ...
1 const Home = props => {
2   return (
3     <div>
4       <h1 className='text-6xl mb-4'>Welcome</h1>
5     </div>
6   );
7 };
8
9 export default Home;
```

```
NotFound.jsx U X
src > pages > NotFound.jsx > ...
1 import { FaHome } from 'react-icons/fa';
2 import { Link } from 'react-router-dom';
3
4 const NotFound = props => {
5   return (
6     <div className='hero'>
7       <div className='text-center hero-content'>
8         <div className='max-w-lg'>
9           <h1 className='text-8xl font-bold mb-8'>Oops!</h1>
10          <p className='text-5xl mb-8'>404 - Page not found!</p>
11          <Link to='/' className='btn btn-primary btn-lg'>
12            <FaHome className='mr-2' />
13            BACK to Home Page
14          </Link>
15        </div>
16      </div>
17    </div>
18  );
19 };
20
21 export default NotFound;
```

