

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 GitHub Finder project. Start

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`

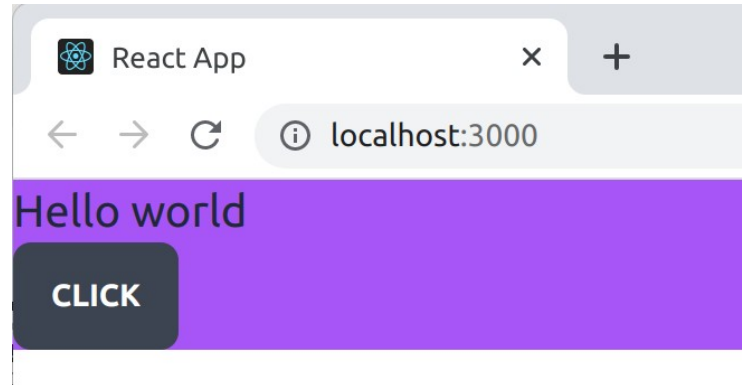
Open file `tailwind.config.js`

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

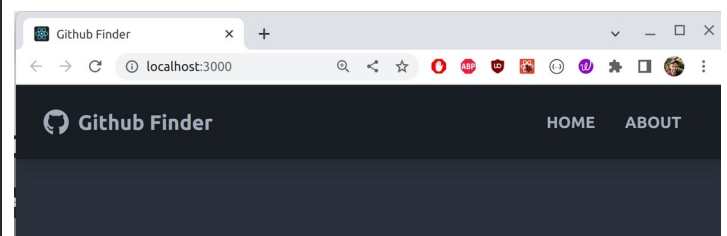
You need to install react-router-dom and react-icons

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
```

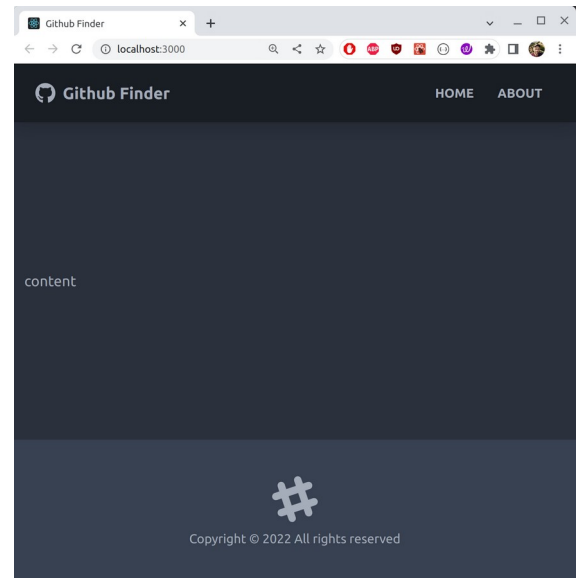
```
App.jsx M X
src > App.jsx > ...
1 import { BrowserRouter as Router, Route } from 'react-router-dom';
2 import Navbar from '../components/layout/Navbar';
3 const App = () => {
4   return (
5     <Router>
6       <div className='flex flex-col justify-between h-screen'>
7         <Navbar />
8         <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-primery-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.
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.
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.
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.
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.
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-.
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.
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.
622 4.823 2.433-.809c1.242-.401 2.557 4.84 2.557 1.838 0 .819-.51 1.583-1.328 1.
847m-8.992-6.428l-5.01 1.675 1.619 4.828 5.011-1.674-1.62-4.829'></path>
16         </svg>
17         <p>Copyright &copy; {footerYear} All rights reserved</p>
18       </div>
19     </footer>
20   );
21 };
22
23 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

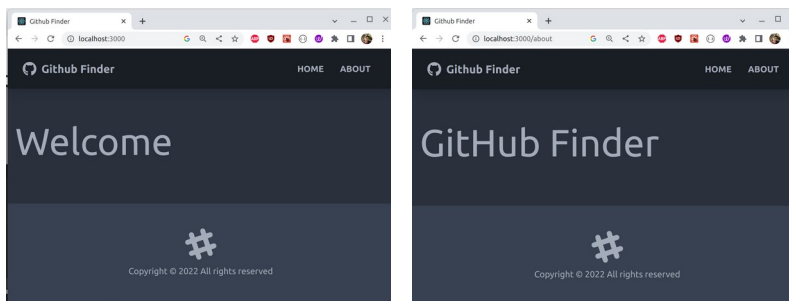
Create a new folder github-finder/src/pages to store components for all the main pages

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

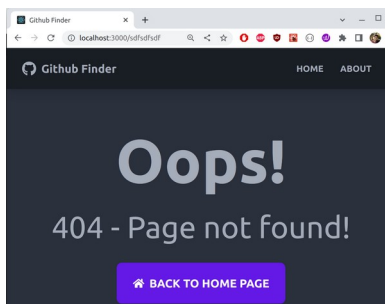
```
App.jsx M X
src > App.jsx > ...
1 import { BrowserRouter as Router, Route, Routes } from 'react-router-dom';
2 import Navbar from './components/layout/Navbar';
3 import Footer from './components/layout/Footer';
4 import Home from './pages/Home';
5 import About from './pages/About';
6 import NotFound 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;
```



2 Working with GitHub AP

2.1 Github API & getting token

2.1.1 How can you use GitHub API?

You can get information about any github user by ID, search users, get list of repositories and so on.

2.1.2 How to get GitHub API token?

Visit github.com. Go to your profile => settings => developer settings => tokens (classic) => generate new token (classic)

Select user and repo and click on generate token => copy and save **YOUR** token

`ghp_UGuH6CyTtyjQ2ybWJolcyyJza0utl60OTf0x`

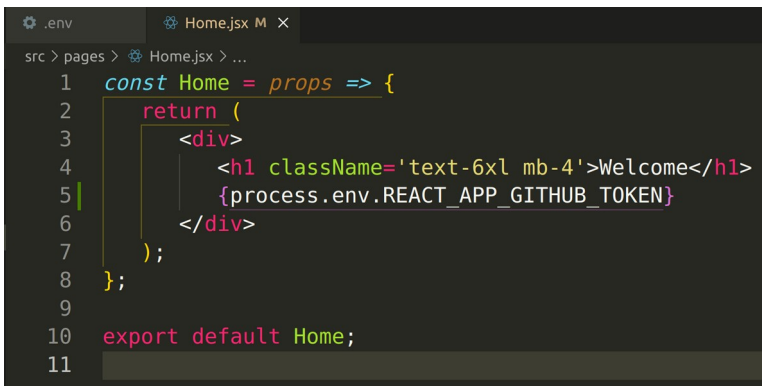
2.1.3 How to use environment variables?

Create a new file `.env` (in root folder of your react project/folder/app – github-finder)

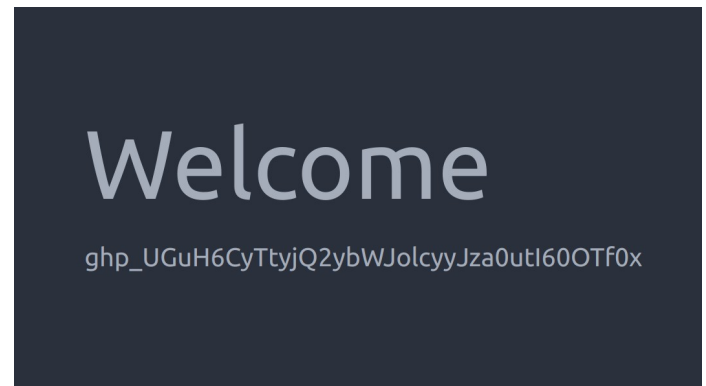
Add 2 variables:

```
REACT_APP_GITHUB_TOKEN="ghp_UGuH6CyTtyjQ2ybWJolcyyJza0utl60OTf0x"
REACT_APP_GITHUB_URL="https://api.github.com"
```

How you can check if it works:



```
.env
Home.jsx M X
src > pages > Home.jsx > ...
1  const Home = props => {
2    return (
3      <div>
4        <h1 className='text-6xl mb-4'>Welcome</h1>
5        {process.env.REACT_APP_GITHUB_TOKEN}
6      </div>
7    );
8  };
9
10 export default Home;
11
```



```
Welcome
ghp_UGuH6CyTtyjQ2ybWJolcyyJza0utl60OTf0x
```

