**React & AJAX example with useEffect, .env.local, routing w. params etc.**

Contents

[public/index.html (unchanged) 1](#_Toc116278805)

[src/index.js (now could be slightly changed, or put Router to App.js) 1](#_Toc116278806)

[src/App.js 2](#_Toc116278807)

[src/components/CategoryRow.js 2](#_Toc116278808)

[src/components/CategoryListItem.js 2](#_Toc116278809)

[src/views/CategoryListView.js 3](#_Toc116278810)

[src/views/CategoryListView.js 4](#_Toc116278811)

[.env.local --- add that in the root folder of the repo/project 5](#_Toc116278812)

[src/ajax/dao.js 5](#_Toc116278813)

# public/index.html (unchanged)

<body>

    <noscript>You need to enable JavaScript to run this app.</noscript>

    <div id="root"></div>

    <!--

      This HTML file is a template.

      If you open it directly in the browser, you will see an empty page.

-->

</body>

src/index.js (now could be slightly changed, or put Router to App.js)  
… not all code there important  
import { BrowserRouter } from 'react-router-dom';  
…   
  
const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(

  <React.StrictMode>

**<BrowserRouter>**

      <App />

**</BrowserRouter>**

  </React.StrictMode>

);

# src/App.js

import { **Routes**, **Route**, **NavLink** } from 'react-router-dom';

import './App.css';

import CategoryListView from './views/CategoryListView';

import CategoryDetailsView from './views/CategoryDetailsView';

function App() {

  return (

      <div className="App">

        <nav>

          <span>Extra navbar at top: </span>

          <**NavLink** to="/category">Categories</**NavLink**>

        </nav>

        <**Routes**>

          <**Route** path="category" element={<CategoryListView />} />

          <**Route** path="/category/:categoryId" element={<CategoryDetailsView />} />

        </**Routes**>

      </div>

  );

}

export default App;

# src/components/CategoryRow.js

import React from "react";

const CategoryRow = ({category}) => {

    return (<div>{`${category.id} : ${category.name}`}</div>);

}

export default CategoryRow;

# src/components/CategoryListItem.js

import React from "react";

import CategoryRow from "../components/CategoryRow";

import {Link} from "react-router-dom";

const CategoryListItem = ({category}) => {

    return (

        <Link to={`/category/${category.id}`}>

                <CategoryRow category={category} />

        </Link>

    );

}

export default CategoryListItem;

# src/views/CategoryListView.js

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

import CategoryRow from "../components/CategoryRow";

import dao from "../ajax/dao";

const CategoryListView = () => {

    const [categories, setCategories] = useState([]);

    useEffect(() => {

        // ...do something ONLY when component did mount

        // Notice: even if categories state change => not fired

        async function refreshCategories () {

            const data = await dao.fetchCategories();

            setCategories(data);

        }

        refreshCategories();

    },[]);

    useEffect(() => {

        // ...do something when 1. component did mount

        // 2. categories state changes

    },[categories]);

    return (

        <>

        <h3>Categories</h3>

        <div>

            {categories && categories.length>0 ?

                categories.map((item)=>

                    <CategoryRow    key={item.id}

                                    id={item.id}

                                    category={item} />

            ) : "no categories yet"

        }

        </div>

        </>

    );

# src/views/CategoryListView.js

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

import {Link, useParams } from "react-router-dom";

import dao from "../ajax/dao";

const CategoryDetailsView = () => {

    const [category, setCategory] = useState([]);

    const {categoryId} = useParams();

    useEffect(() => {

        async function getCategory () {

            const data = await dao.fetchOneCategoryById(categoryId);

            setCategory(data);

        }

        getCategory();

    },[]);

    return(

        <div>

            <h1>Details of a Category</h1>

            <dl>

                <dt>id: {category.id}</dt>

                <dd>name: {category.name}</dd>

                <dd>budget: {category.budgetLimit}</dd>

            </dl>

            <nav>

                <Link to="/category">Back to list</Link>

            </nav>

        </div>

    );

}

export default CategoryDetailsView;

.env.local --- add that in the root folder of the repo/project

REACT\_APP\_BE\_SERVER\_BASE\_URL=http://localhost:8777/api

# src/ajax/dao.js

const baseUrl = process.env.REACT\_APP\_BE\_SERVER\_BASE\_URL;

const fetchCategories = async () => {

    const request = new Request(`${baseUrl}/category/all`,{

        method: 'GET',

    });

    const response = await fetch(request);

    const data = await response.json();

    return data;

};

const fetchOneCategoryById = async (categoryId) => {

    const request = new Request(`${baseUrl}/category/${categoryId}`,{

        method: 'GET',

    });

    const response = await fetch(request);

    const data = await response.json();

    const category = data && data.length>0 ? data[0] : null;

    return category;

};

export default {

    fetchCategories,

    fetchOneCategoryById,

};