



Collège de
Maisonneuve

ATTESTATION D'ETUDES COLLÉGIALE

CONCEPTION ET PROGRAMMATION DE SITES WEB (NWE.0F)

Documentation TP2_Faye Boury

**Techniques avancées en programmation Web
582-41F-MA**

TP 2

**Création d'un site web à l'aide de la librairie React.js
25%**

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Installation/Création d'un projet React :

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  PORTS
● PS C:\Users\Boury\Desktop\22634_Cours\22634_webAvancee> npm install -g npm@9.6.7

changed 18 packages in 19s

27 packages are looking for funding
  run `npm fund` for details
○ PS C:\Users\Boury\Desktop\22634_Cours\22634_webAvancee> npx create-react-app tp2-react

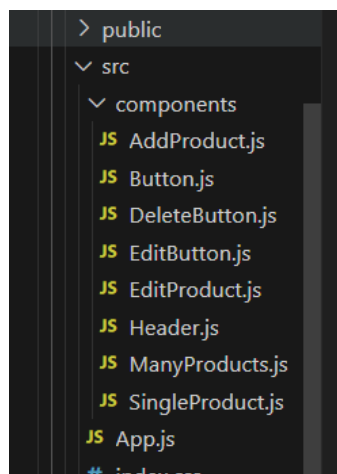
Creating a new React app in C:\Users\Boury\Desktop\22634_Cours\22634_webAvancee\tp2-react.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

[#####.....] - idealTree:@babel/core: sill placeDep ROOT semver@7.5.4 OK for: react-scripts@5.0.1 want: ^7.3.5
```

Premier Scénario :

Créations de composants avec des données locales

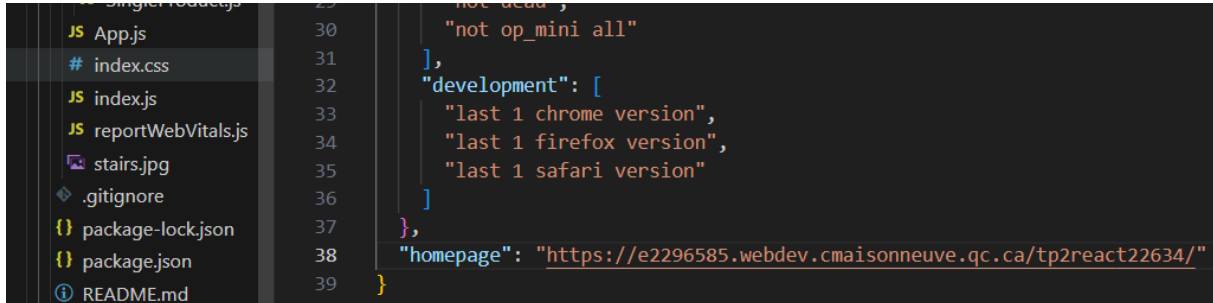


```
22634_Cours / 22634_webAvancee / tp2-react / Boury / src / App.js
1  import { useState } from 'react'
2  import Header from './components/Header'
3  import ManyProducts from './components/ManyProducts'
4  import AddProduct from './components/AddProduct'
5  import EditProduct from './components/EditProduct'
6
7
8  function App() {
9    //variable globale
10    const [products, setProducts] = useState([
11      {
12        "id": 1,
13        "name": "portable charger",
14        "description": "20K Battery Pack with PowerIQ Tec
15        "price": "69.95",
16        "category": "electronics"
17      },
18      {
19        "id": 2,
20        "name": "duffle coat",
21        "description": "Allegra K Women's Long Coats Hood
```

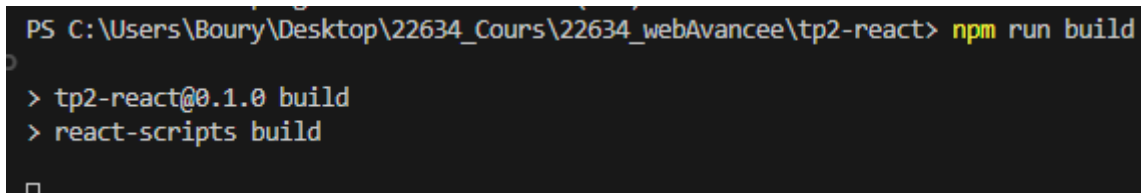
Déploiement sur Webdev :

Ajout de cette ligne dans le fichier package.json

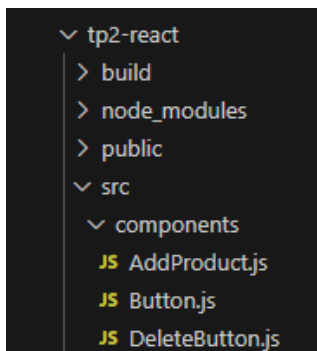
```
"homepage": "https://e2296585.webdev.cmaisonneuve.qc.ca/tp2react22634/"
```



```
29     "not dead",
30     "not op_mini all"
31   ],
32   "development": [
33     "last 1 chrome version",
34     "last 1 firefox version",
35     "last 1 safari version"
36   ],
37 },
38 "homepage": "https://e2296585.webdev.cmaisonneuve.qc.ca/tp2react22634/"
39 }
```



```
PS C:\Users\Boury\Desktop\22634_Cours\22634_webAvancee\tp2-react> npm run build
> tp2-react@0.1.0 build
> react-scripts build
```



```

v tp2-react
  > build
  > node_modules
  > public
  v src
    v components
      JS AddProduct.js
      JS Button.js
      JS DeleteButton.js
```

Lien Webdev : <https://e2296585.webdev.cmaisonneuve.qc.ca/tp2react22634/>

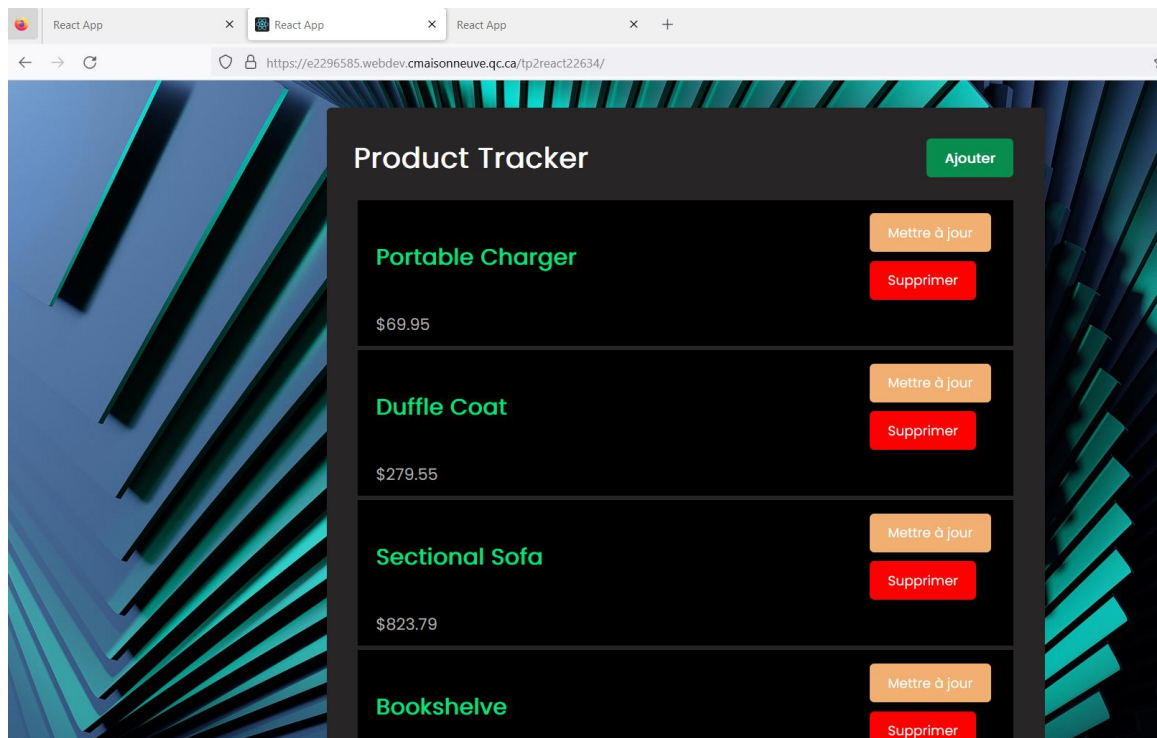


Image arrière-plan : <https://unsplash.com/photos/uMo1PTIGIR8>

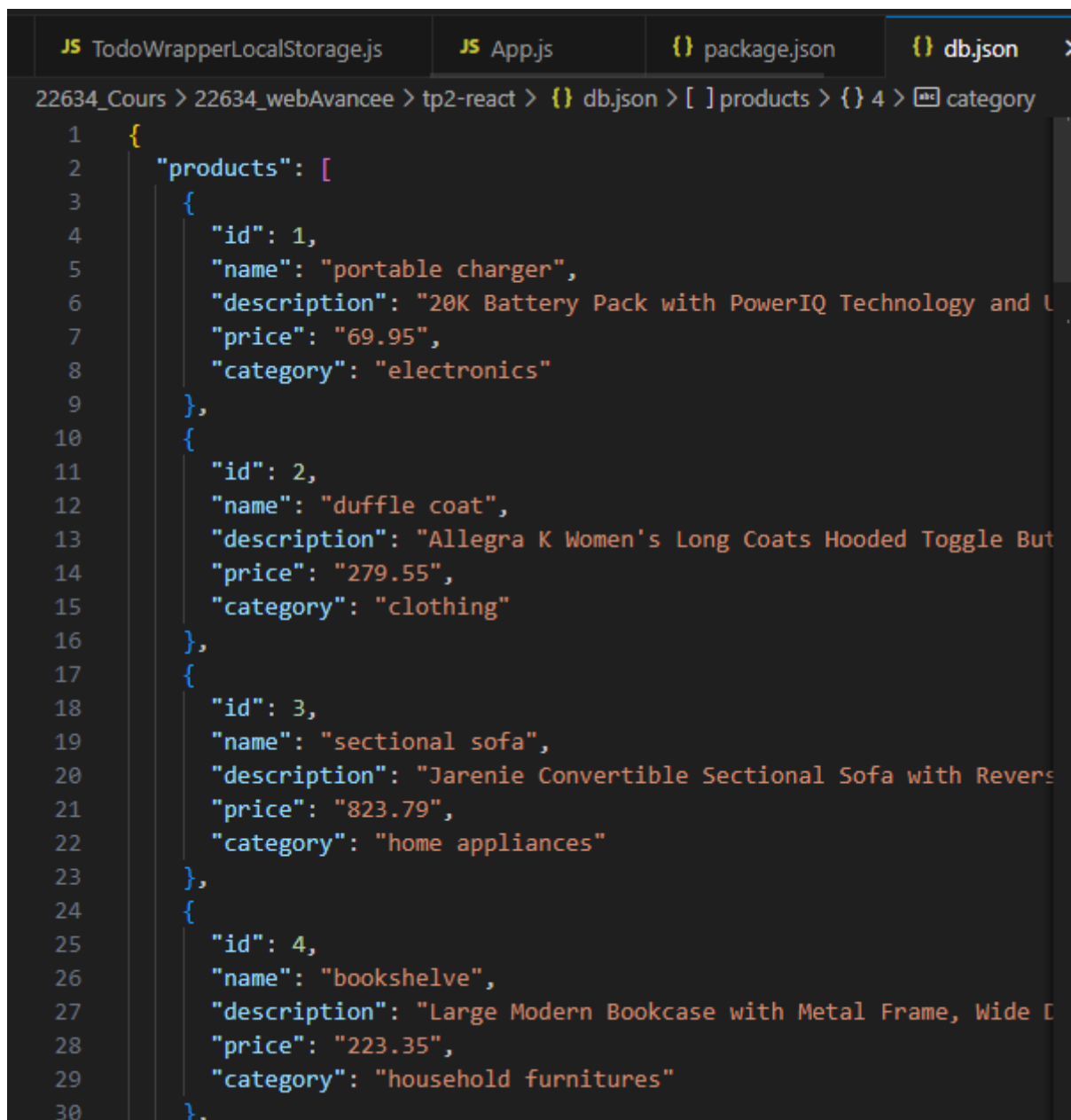
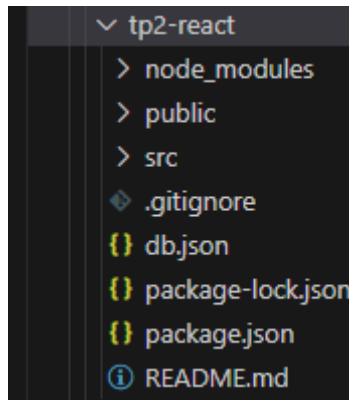
Second Scénario :

```
PS C:\Users\Boury\Desktop\22634_Cours\22634_webAvancee\tp2-react> npm i json-server
○ [.....] \ idealTree: timing arborist:ctor Completed in 2ms
```

```
22634_Cours > 22634_webAvancee > tp2-react > {} package.json > {} eslintConfig
5     "dependencies": {
10       "react": "^18.2.0",
11       "react-dom": "^18.2.0",
12       "react-icons": "^4.11.0",
13       "react-scripts": "5.0.1",
14       "uuid": "^9.0.1",
15       "web-vitals": "^2.1.4"
16     },
    > Debug
17     "scripts": {
18       "start": "react-scripts start",
19       "build": "react-scripts build",
20       "test": "react-scripts test",
21       "eject": "react-scripts eject",
22       "server": "json-server --watch db.json --port 5000"
23   },
```

```
PS C:\Users\Boury\Desktop\22634_Cours\22634_webAvancee\tp2-react> npm run server
```

Un fichier **db.json** a été crée à la racine de mon projet.



reactjs - TypeError: Cannot read X

New Tab

React App

Firefox View

localhost:5000/products

JSONRaw DataHeaders

SaveCopyCollapse AllExpand AllFilter JSON

0:

id:

1

name:

"portable charger"

description:

"20K Battery Pack with PowerIQ Technology and USB-C (Recharging Only) for iPhone 15/15 Plus/1

price:

"69.95"

category:

"electronics"

1:

id:

2

name:

"duffle coat"

description:

"Allegra K Women's Long Coats Hooded Toggle Button Up Long Sleeves Pocket Winter Outwear Duff

price:

"279.55"

category:

"clothing"

2:

id:

3

name:

"sectional sofa"

description:

"Jarenie Convertible Sectional Sofa with Reversible Chaise, 3-Seat L Shaped Couch Modern Line

price:

"823.79"

category:

"home appliances"

3:

id:

4

name:

"bookshelve"

description:

"Large Modern Bookcase with Metal Frame, Wide Display Bookshelf for Bedroom, Living Room"

price:

"223.35"

category:

"household furnitures"

4:

id:

5

name:

"Fine Art Morning artwork"

description:

"Morning Sonata Artwork by Beata Czyzowska Young, 16 by 20-Inch, Black Frame"

price:

"79.00"

category:

"paintings"

Routage :

```
PS C:\Users\Boury\Desktop\22634_Cours\22634_webAvancee\tp2-react> npm install react-router-dom
```

```
Storage is... JS App.js package.json db
C:\Users\Boury\Desktop\22634_Cours\22634_webAvancee\tp2-prod
22634_Cours > 22634_webAvancee > tp2-react > {} package.js
1 {
2   "name": "tp2-react",
3   "version": "0.1.0",
4   "private": true,
5   "dependencies": {
6     "@testing-library/jest-dom": "^5.17.0",
7     "@testing-library/react": "^13.4.0",
8     "@testing-library/user-event": "^13.5.",
9     "json-server": "^0.17.3",
10    "react": "^18.2.0",
11    "react-dom": "^18.2.0",
12    "react-icons": "^4.11.0",
13    "react-router-dom": "^6.16.0",
14    "react-scripts": "5.0.1"
```

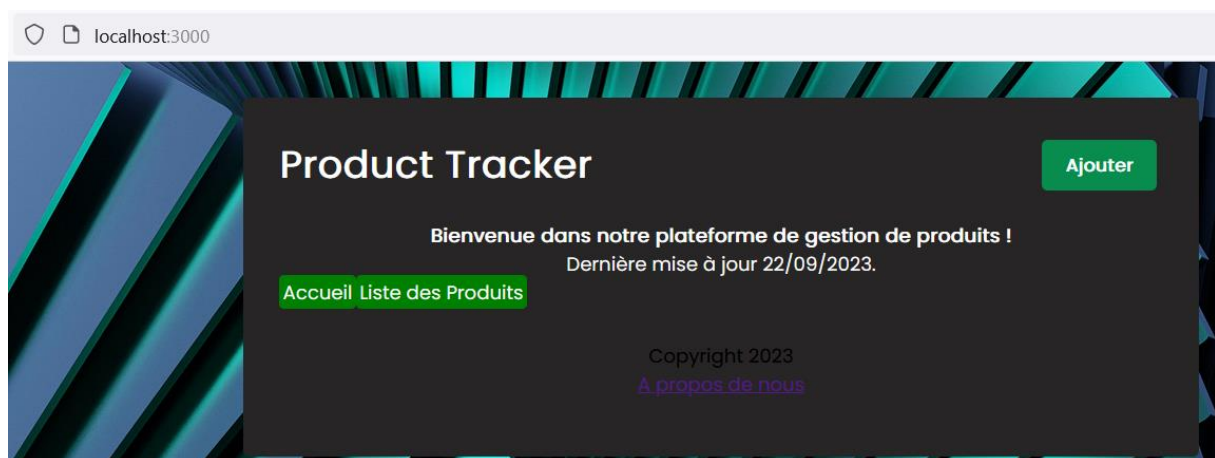
On importe la librairie spécifique au routage (ligne 2) :

```
22634_Cours > 22634_webAvancee > tp2-react > src > JS App.js > App
1 import { useState, useEffect } from 'react'
2 import { BrowserRouter, Route, Routes } from 'react-router-dom'
3 import Header from './components/Header'
4 import ManyProducts from './components/ManyProducts'
5 import AddProduct from './components/AddProduct'
6 import EditProduct from './components/EditProduct'
7 import About from './components/About'
8 import Footer from './components/Footer'
9 import Home from './components/Home'
10
11
12 function App() {
13   //variable globale
14   const [products, setProducts] = useState([])
15   useEffect(() =>{
16     const getProducts = async () => {
```

On ajoute les balises **<BrowserRouter>**, **<Routes>** et **<Route>** dans le fichier **App.js** :

```
22634_Cours > 22634_webAvancee > tp2-react > src > JS App.js > App
12  function App() {
58    const updateProduct = async (finalUpdateProduct) => {
65      body: JSON.stringify(finalUpdateProduct)
66    })
67    setProducts(products.map((product) => product.id === finalUpdateProduct.id ?
    finalUpdateProduct : product ))
68  }
69
70
71  //TOGGLE FORM
72  const [showAddProduct, setShowAddProduct] = useState(false)
73
74  const [showEditProduct, setShowEditProduct] = useState(null)
75
76
77  return (
78    <BrowserRouter>
79    <div className="container">
80      <Header onAddBtn={() => setShowAddProduct(!showAddProduct)} showAdd={showAddProduct}/>
81      {showAddProduct && <AddProduct onAdd={addProduct}/>}
82      {showEditProduct && <EditProduct onEdit={updateProduct} product={showEditProduct}/>}
83      <Home/>
84      <Routes>
85        <Route path='/products' element={<ManyProducts products={products} onDeleteMany=
          {deleteProduct} onUpdateMany={updateThisProduct}/> }/>
86
87        <Route path='/about' element={<About/>}/>
88      </Routes>
89      <Footer/>
90    </div>
91    </BrowserRouter>
92  );
93 }
94
95 export default App;
```

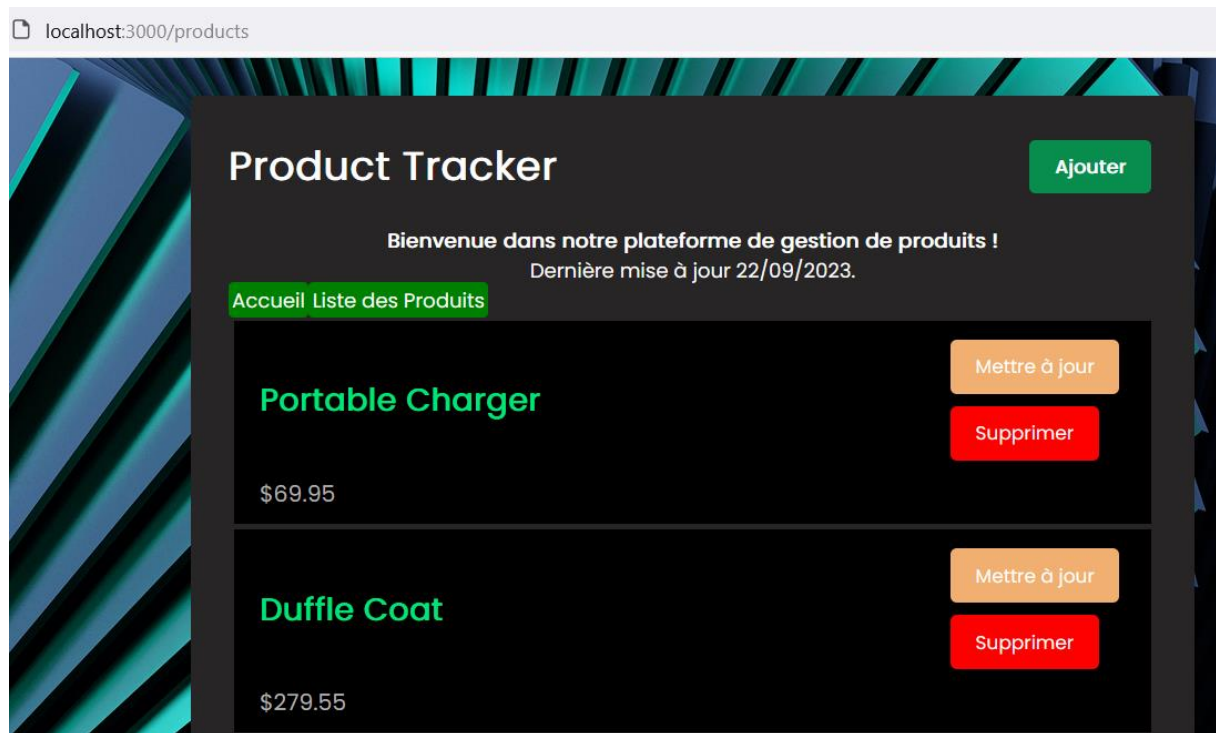
Page d'accueil :



Menu de navigation :



Chemin pour la liste des produits « /products » :



Lien Github : <https://github.com/bouryfaye/tp2-fayeboury-react.git>

Pour lancer le projet, ouvrir un premier terminal dans le bon répertoire et tapez : **npm start**

Ensuite, ouvrez un second terminal toujours dans le même répertoire et tapez : **npm run server**

Le projet roule correctement sur le port 3000.