

« Vous êtes bien sur la page des ressources de la formation 'React : Développez votre première application avec TypeScript et les Hooks'.

Vous trouverez, comme promis, les éléments suivants :

#### Table des matières

- <u>L'application de démonstration</u>
- La correction du code
- Les extraits de code

Bon développement à vous,

Simon. »



# L'application de démonstration

Lien vers l'application de démonstration.

## La correction du code

react-pokemons-app-correction Télécharger

## Les extraits de code

package.json (React 16)

```
"name": "react-pokemons-app",
"version": "1.0.0",
"description": "An awesome application to handle some pokemons.",
"dependencies": {
    "@types/node": "12.11.1",
    "@types/react": "16.9.9",
    "@types/react-dom": "16.9.2",
    "@types/react-router-dom": "^5.1.2",
```

```
10
          "react": "^16.10.2",
          "react-dom": "^16.10.2",
11
          "react-router-dom": "^5.1.2",
12
13
          "react-scripts": "3.2.0",
          "typescript": "3.6.4"
14
15
       "scripts": {
16
         "start": "react-scripts start",
17
18
          "build": "react-scripts build"
19
20
        "eslintConfig": {
          "extends": "react-app"
21
22
       },
23
       "browserslist": {
24
          "production": [
25
            ">0.2%",
            "not dead",
26
27
            "not op mini all"
28
          ],
29
          "development": [
            "last 1 chrome version",
30
            "last 1 firefox version",
31
32
            "last 1 safari version"
33
34
       }
35
     }
```

package.jour (Neact 17)

```
1
 2
       "name": "react-pokemons-app",
 3
       "version": "1.0.0",
 4
       "description": "An awesome application to handle some pokemons.",
       "dependencies": {
 5
         "@types/node": "12.11.1",
 6
 7
         "@types/react": "16.9.9",
         "@types/react-dom": "16.9.2",
8
9
         "@types/react-router-dom": "^5.1.2",
         "react": "^17.0.0",
10
         "react-dom": "^17.0.0",
11
12
         "react-router-dom": "^5.1.2",
13
         "react-scripts": "^4.0.0",
         "typescript": "3.6.4"
14
15
       },
       "scripts": {
16
         "start": "react-scripts start",
17
18
         "build": "react-scripts build"
19
       },
20
       "eslintConfig": {
21
         "extends": "react-app"
22
       "browserslist": {
23
```

```
24
            "production": [
 25
              ">0.2%",
              "not dead",
 26
              "not op_mini all"
 27
           ],
"development": [
 28
 29
              "last 1 chrome version",
 30
              "last 1 firefox version",
 31
 32
              "last 1 safari version"
 33
 34
         }
 35
       }
LOCUTING JOUR (NEACT 10)
```

```
1
 2
       "compilerOptions": {
 3
          "target": "es5",
          "lib": [
 4
 5
            "dom",
            "dom.iterable",
 6
 7
            "esnext"
 8
 9
          "allowJs": true,
10
          "skipLibCheck": true,
         "esModuleInterop": true,
11
         "allowSyntheticDefaultImports": true,
12
          "strict": true,
13
14
          "forceConsistentCasingInFileNames": true,
         "module": "esnext",
15
          "moduleResolution": "node",
16
          "resolveJsonModule": true,
17
          "isolatedModules": true,
18
19
          "noEmit": true,
          "jsx": "react"
20
21
       },
22
       "include": [
23
          "src"
24
25
     }
```

#### tsconfig.json (React 17)

```
8
         "allowJs": true,
9
         "skipLibCheck": true,
10
         "esModuleInterop": true,
11
         "allowSyntheticDefaultImports": true,
12
13
         "strict": true,
14
         "forceConsistentCasingInFileNames": true,
15
         "module": "esnext",
         "moduleResolution": "node",
16
         "resolveJsonModule": true,
17
18
         "isolatedModules": true,
19
         "noEmit": true,
         "jsx": "react",
20
         "noFallthroughCasesInSwitch": true
21
22
23
       "include": [
         "src"
24
25
26
     }
```

#### App.tsx

```
import React from 'react';
 1
 2
 3
     const App: React.FC = () => {
 4
      const name: String = 'React';
 5
 6
      return (
 7
       <h1>Hello, {name} !</h1>
8
9
     }
10
     export default App;
```

## pokemon.html

```
1
     <!DOCTYPE html>
     <html lang="fr">
 2
 3
       <head>
 4
          <meta charset="utf-8" />
 5
          <meta name="viewport" content="width=device-width, initial-scal")</pre>
 6
          <title>Pokédex</title>
 7
       </head>
8
       <body>
9
          <noscript>You need to enable JavaScript to run this app./noscript
10
          <div id="root">L'application est en cours de chargement...</div</pre>
11
       </body>
     </html>
12
```

```
1
     export default class Pokemon {
 2
      // 1. Typage des propiétés d'un pokémon.
 3
      id: number;
 4
      hp: number;
 5
      cp: number;
 6
      name: string;
 7
      picture: string;
 8
      types: Array<string>;
9
      created: Date;
10
11
      // 2. Définition des valeurs par défaut des propriétés d'un pokémo
12
      constructor(
13
       id: number,
14
       hp: number = 100,
       cp: number = 10,
15
       name: string = 'name',
16
       picture: string = 'http://...',
17
18
       types: Array<string> = ['Normal'],
19
       created: Date = new Date()
20
      ) {
21
       // 3. Initialisation des propiétés d'un pokémons.
       this.id = id;
22
       this.hp = hp;
23
24
       this.cp = cp;
25
       this.name = name;
26
       this.picture = picture;
27
       this.types = types;
28
       this.created = created;
29
      }
30
     }
```

#### models/mock-pokemon.ts

```
import Pokemon from './pokemon';
 1
 2
 3
     export const POKEMONS: Pokemon[] = [
 4
 5
       id: 1,
       name: "Bulbizarre",
 6
 7
       hp: 25,
       cp: 5,
 8
 9
       picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
       types: ["Plante", "Poison"],
10
       created: new Date()
11
12
      },
13
      {
14
       id: 2,
```

```
15
       name: "Salamèche",
16
       hp: 28,
17
       cp: 6,
       picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
18
       types: ["Feu"],
19
20
       created: new Date()
21
      },
22
      {
       id: 3,
23
       name: "Carapuce",
24
25
       hp: 21,
26
       cp: 4,
27
       picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
       types: ["Eau"],
28
29
       created: new Date()
30
      },
31
32
       id: 4,
       name: "Aspicot",
33
34
       hp: 16,
35
       cp: 2,
36
       picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
       types: ["Insecte", "Poison"],
37
38
       created: new Date()
39
      },
40
      {
       id: 5,
41
       name: "Roucool",
42
43
       hp: 30,
       cp: 7,
44
       picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
45
46
       types: ["Normal", "Vol"],
       created: new Date()
47
      },
48
49
50
       id: 6,
51
       name: "Rattata",
52
       hp: 18,
53
       cp: 6,
54
       picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
55
       types: ["Normal"],
56
       created: new Date()
57
      },
58
      {
59
       id: 7,
       name: "Piafabec",
60
61
       hp: 14,
62
       cp: 5,
       picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
63
64
       types: ["Normal", "Vol"],
65
       created: new Date()
      },
66
67
68
       id: 8,
```

```
69
          name: "Abo",
   70
          hp: 16,
  71
          cp: 4,
  72
          picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
  73
          types: ["Poison"],
   74
          created: new Date()
   75
         },
  76
         {
   77
          id: 9,
          name: "Pikachu",
   78
   79
          hp: 21,
  80
          cp: 7,
  81
          picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
          types: ["Electrik"],
  82
  83
          created: new Date()
   84
         },
  85
   86
          id: 10,
   87
          name: "Sabelette",
   88
          hp: 19,
  89
          cp: 3,
  90
          picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
          types: ["Normal"],
  91
  92
          created: new Date()
  93
         },
  94
  95
          id: 11,
          name: "Mélofée",
  96
  97
          hp: 25,
  98
          cp: 5,
  99
          picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
  100
          types: ["Fée"],
          created: new Date()
 101
         },
 102
 103
 104
          id: 12,
 105
          name: "Groupix",
 106
          hp: 17,
 107
          cp: 8,
 108
          picture: "https://assets.pokemon.com/assets/cms2/img/pokedex/det
 109
          types: ["Feu"],
 110
          created: new Date()
 111
         }
 112
        ];
 113
 114
        export default POKEMONS;
CODE . IUI IIIati ype
```

const formatType = (type: string): string => {
 let color: string;
}

```
switch (type) {
 4
 5
         case 'Feu':
 6
           color = 'red lighten-1';
 7
           break;
 8
         case 'Eau':
9
           color = 'blue lighten-1';
           break;
10
         case 'Plante':
11
           color = 'green lighten-1';
12
13
           break;
14
         case 'Insecte':
15
           color = 'brown lighten-1';
16
           break;
17
         case 'Normal':
           color = 'grey lighten-3';
18
19
           break:
20
         case 'Vol':
21
           color = 'blue lighten-3';
22
           break;
23
         case 'Poison':
           color = 'deep-purple accent-1';
24
25
           break;
         case 'Fée':
26
27
           color = 'pink lighten-4';
28
           break;
29
         case 'Psy':
30
           color = 'deep-purple darken-2';
31
           break;
32
         case 'Electrik':
33
           color = 'lime accent-1';
34
           break;
35
         case 'Combat':
36
           color = 'deep-orange';
37
           break;
         default:
38
39
           color = 'grey';
40
           break;
       }
41
42
43
       return `chip ${color}`;
44
     }
```

pages/pokemon-list.tsx

```
import React, { FunctionComponent, useState, useEffect } from 'reactimport Pokemon from '../models/pokemon';
import POKEMONS from '../models/mock-pokemon';
import PokemonCard from '../components/pokemon-card';

const PokemonList: FunctionComponent = () => {
  const [pokemons, setPokemons] = useState<Pokemon[]>([]);
```

```
9
       useEffect(() => {
10
         setPokemons(POKEMONS);
11
       }, []);
12
       return (
13
14
         <div>
15
           <h1 className="center">Pokédex</h1>
           <div className="container">
16
17
              <div className="row">
              {pokemons.map(pokemon => (
18
                <PokemonCard key={pokemon.id} pokemon={pokemon}/>
19
20
              ))}
21
              </div>
22
           </div>
23
         </div>
24
       );
     }
25
26
27
     export default PokemonList;
```

hages/hoverinon-carares

```
1
     import React, { FunctionComponent } from 'react';
 2
     import Pokemon from '../models/pokemon';
 3
 4
     type Props = {
 5
       pokemon: Pokemon
 6
     };
 7
 8
     const PokemonCard: FunctionComponent<Props> = ({pokemon}) => {
9
10
       return (
         <div className="col s6 m4">
11
12
           <div className="card horizontal">
13
             <div className="card-image">
14
               <img src={pokemon.picture} alt={pokemon.name}/>
15
             </div>
             <div className="card-stacked">
16
17
               <div className="card-content">
18
                 {pokemon.name}
19
                 <small>{pokemon.created.toString()}</small>
20
               </div>
21
             </div>
22
           </div>
23
         </div>
24
       );
25
26
     export default PokemonCard;
```

```
import React, { FunctionComponent, useState, useEffect } from 'reac
 1
 2
     import { RouteComponentProps, Link } from 'react-router-dom';
    import Pokemon from '../models/pokemon';
 3
    import POKEMONS from '../models/mock-pokemon';
import formatDate from '../helpers/format-date';
 4
 5
     import formatType from '../helpers/format-type';
 6
 7
 8
    type Params = { id: string };
9
     const PokemonsDetail: FunctionComponent<RouteComponentProps<Params</pre>
10
11
12
       const [pokemon, setPokemon] = useState<Pokemon|null>(null);
13
14
       useEffect(() => {
15
        POKEMONS.forEach(pokemon => {
          if (match.params.id === pokemon.id.toString()) {
16
17
            setPokemon(pokemon);
18
        })
19
20
       }, [match.params.id]);
21
22
       return (
23
        <div>
          { pokemon ? (
24
            <div className="row">
25
26
              <div className="col s12 m8 offset-m2">
                <h2 className="header center">{ pokemon.name }</h2>
27
28
                <div className="card hoverable">
                  <div className="card-image">
29
                    <img src={pokemon.picture} alt={pokemon.name} style</pre>
30
31
                  </div>
                  <div className="card-stacked">
32
                    <div className="card-content">
33
34
                      35
                        36
37
                            Nom
                            <strong>{ pokemon.name }</strong>
38
39
                          40
41
                            Points de vie
                            <strong>{ pokemon.hp }</strong>
42
43
                          44
                          45
                            Dégâts
                            <strong>{ pokemon.cp }</strong>
46
47
                          48
                          49
                            Types
50
                            51
                              {pokemon.types.map(type => (
                               <span key={type} className={formatType(t</pre>
52
53
                              ))}
```

```
54
                         55
                         56
                          Date de création
57
                          {formatDate(pokemon.created)}
58
                         59
                       60
                     61
                   </div>
62
                   <div className="card-action">
                     <Link to="/">Retour</Link>
63
                   </div>
64
65
                 </div>
               </div>
66
             </div>
67
68
            </div>
69
          ) : (
70
            <h4 className="center">Aucun pokémon à afficher !</h4>
71
72
        </div>
73
      );
74
75
76
    export default PokemonsDetail;
```

pages/page-Hot-louliu.tsx

```
1
     import React, { FunctionComponent } from 'react';
 2
     import { Link } from 'react-router-dom';
 3
 4
     const PageNotFound: FunctionComponent = () => {
 5
 6
       return (
 7
         <div className="center">
 8
           <img src="http://assets.pokemon.com/assets/cms2/img/pokedex/1</pre>
 9
           <h1>Hey, cette page n'existe pas !</h1>
           <Link to="/" className="waves-effect waves-teal btn-flat">
10
11
             Retourner à l'accueil
           </Link>
12
13
         </div>
14
       );
15
16
     export default PageNotFound;
17
```

components/pokemon-form.tsx

```
import React, { FunctionComponent } from 'react';
import Pokemon from '../models/pokemon';
import formatType from '../helpers/format-type';
```

```
4
 5
     type Props = {
 6
       pokemon: Pokemon
 7
 8
 9
     const PokemonForm: FunctionComponent<Props> = ({pokemon}) => {
10
11
       const types: string[] = [
          'Plante', 'Feu', 'Eau', 'Insecte', 'Normal', 'Electrik', 'Poison', 'Fée', 'Vol', 'Combat', 'Psy'
12
13
14
       ];
15
16
       return (
17
          <form>
18
            <div className="row">
19
              <div className="col s12 m8 offset-m2">
20
                <div className="card hoverable">
21
                  <div className="card-image">
22
                     <img src={pokemon.picture} alt={pokemon.name} style={</pre>
23
                  </div>
24
                  <div className="card-stacked">
25
                     <div className="card-content">
26
                       {/* Pokemon name */}
27
                       <div className="form-group">
28
                         <label htmlFor="name">Nom</label>
                         <input id="name" type="text" className="form-cont</pre>
29
30
                       </div>
31
                       {/* Pokemon hp */}
32
                       <div className="form-group">
                         <label htmlFor="hp">Point de vie</label>
33
                         <input id="hp" type="number" className="form-cont</pre>
34
35
                       </div>
                       {/* Pokemon cp */}
36
37
                       <div className="form-group">
                         <label htmlFor="cp">Dégâts</label>
38
39
                         <input id="cp" type="number" className="form-cont</pre>
40
                       </div>
                       {/* Pokemon types */}
41
42
                       <div className="form-group">
43
                         <label>Types</label>
44
                         {types.map(type => (
45
                           <div key={type} style={{marginBottom: '10px'}};</pre>
46
                             <label>
47
                               <input id={type} type="checkbox" className=</pre>
48
49
                                  { type }<</pre>
50
                               </span>
51
                             </label>
                           </div>
52
53
                         ))}
                       </div>
54
55
                    </div>
56
                     <div className="card-action center">
                       {/* Submit button */}
```

```
58
                       <button type="submit" className="btn">Valider</butt</pre>
59
                     </div>
                   </div>
60
61
                </div>
              </div>
62
63
            </div>
64
          </form>
65
       );
     };
66
67
     export default PokemonForm;
68
```

pages/pokemon-edit.tsx

```
import React, { FunctionComponent, useState, useEffect } from 'reac
 1
 2
     import { RouteComponentProps } from 'react-router-dom';
     import PokemonForm from '../components/pokemon-form';
 3
     import Pokemon from '../models/pokemon';
 4
 5
     import POKEMONS from '../models/mock-pokemon';
 6
 7
     type Params = { id: string };
 8
 9
     const PokemonEdit: FunctionComponent<RouteComponentProps<Params>> =
10
11
       const [pokemon, setPokemon] = useState<Pokemon|null>(null);
12
       useEffect(() => {
13
         POKEMONS.forEach(pokemon => {
14
15
           if (match.params.id === pokemon.id.toString()) {
16
             setPokemon(pokemon);
17
           }
18
       }, [match.params.id]);
19
20
       return (
21
         <div>
22
23
           { pokemon ? (
             <div className="row">
24
25
                 <h2 className="header center">Éditer { pokemon.name }//
26
                  <PokemonForm pokemon={pokemon}></PokemonForm>
27
             </div>
28
           ) : (
             <h4 className="center">Aucun pokémon à afficher !</h4>
29
30
           ) }
31
         </div>
32
       );
33
34
35
     export default PokemonEdit;
```

```
1
     import Pokemon from "../models/pokemon";
 2
 3
     export default class PokemonService {
 4
 5
       static getPokemons(): Promise<Pokemon[]> {
 6
         return fetch('http://localhost:3001/pokemons')
 7
           .then(response => response.json());
 8
       }
 9
       static getPokemon(id: number): Promise<Pokemon|null> {
10
11
         return fetch(`http://localhost:3001/pokemons/${id}`)
12
           .then(response => response.json())
           .then(data => this.isEmpty(data) ? null : data);
13
14
       }
15
       static isEmpty(data: Object): boolean {
16
         return Object.keys(data).length === 0;
17
18
       }
19
     }
```

#### models/db.json

```
1
       "pokemons": [
 2
 3
            "id": 1,
"name": "Bulbizarre",
 4
 5
            "hp": 25,
 6
 7
            "cp": 5,
            "picture": "https://assets.pokemon.com/assets/cms2/img/pokec
 8
            "types": ["Plante", "Poison"]
 9
          },
10
11
            "id": 2,
12
           "name": Salamèche",
13
            "hp": 28,
14
            "cp": 6,
15
            "picture": "https://assets.pokemon.com/assets/cms2/img/poked
16
            "types": ["Feu"]
17
18
19
            "id": 3,
20
            "name": "Carapuce",
21
            "hp": 21,
22
            "cp": 4,
23
            "picture": "https://assets.pokemon.com/assets/cms2/img/pokec
24
            "types": ["Eau"]
25
26
           },
```

```
27
            "id": 4,
28
            "name": "Aspicot",
29
            "hp": 16,
30
            "cp": 2,
31
            "picture": "https://assets.pokemon.com/assets/cms2/img/pokec
32
33
            "types": ["Insecte", "Poison"]
34
           },
35
            "id": 5,
36
            "name": "Roucool",
37
            "hp": 30,
38
39
            "cp": 7,
            "picture": "https://assets.pokemon.com/assets/cms2/img/pokec
40
            "types": ["Normal", "Vol"]
41
42
           },
43
            "id": 6,
44
45
            "name": "Rattata",
            "hp": 18,
46
            "cp": 6,
47
            "picture": "https://assets.pokemon.com/assets/cms2/img/pokec
48
            "types": ["Normal"]
49
50
           },
51
            "id": 7,
"name": "Piafabec",
52
53
            "hp": 14,
54
55
            "cp": 5,
            "picture": "https://assets.pokemon.com/assets/cms2/img/poked
56
            "types": ["Normal", "Vol"]
57
58
           },
59
            "id": 8,
60
            "name": "Abo",
61
            "hp": 16,
62
63
            "cp": 4,
            "picture": "https://assets.pokemon.com/assets/cms2/img/poked
64
            "types": ["Poison"]
65
66
           },
67
            "id": 9,
68
            "name": "Pikachu",
69
            "hp": 21,
70
            "cp": 7,
71
72
            "picture": "https://assets.pokemon.com/assets/cms2/img/poked
            "types": ["Electrik"]
73
74
75
            "id": 10,
76
77
            "name": "Sabelette",
            "hp": 19,
78
            "cp": 3,
79
            "picture": "https://assets.pokemon.com/assets/cms2/img/poked
80
```

```
81
             "types": ["Normal"]
 82
 83
            "id": 11,
 84
             "name": "Mélofée",
 85
 86
            "hp": 25,
             "cp": 5,
87
             "picture": "https://assets.pokemon.com/assets/cms2/img/poked
88
             "types": ["Fée"]
 89
90
            },
 91
             "id": 12,
 92
             "name": "Groupix",
93
94
             "hp": 17,
             "cp": 8,
95
             "picture": "https://assets.pokemon.com/assets/cms2/img/pokec
96
             "types": ["Feu"]
97
98
99
        ]
100
```

בטווושטוובוונא/שטתבוווטוו־שבמו נוו.נא

```
1
     import React, { FunctionComponent, useState } from 'react';
     import { Link } from 'react-router-dom';
 2
 3
     import Pokemon from '../models/pokemon';
     import PokemonService from '../services/pokemon-service';
 4
 5
 6
     const PokemonSearch: FunctionComponent = () => {
 7
 8
       const [term, setTerm] = useState<string>('');
 9
       const [pokemons, setPokemons] = useState<Pokemon[]>([]);
10
11
       const handleInputChange = (e: React.ChangeEvent<HTMLInputElement)</pre>
12
         const term = e.target.value;
13
         setTerm(term);
14
15
         if(term.length <= 1) {</pre>
           setPokemons([]);
16
17
           return;
18
         }
19
20
         PokemonService.searchPokemon(term).then(pokemons => setPokemons
21
       }
22
23
       return (
24
         <div className="row">
25
         <div className="col s12 m6 offset-m3">
           <div className="card">
26
27
           <div className="card-content">
28
             <div className="input-field">
             <input type="text" placeholder="Rechercher un pokémon" valu</pre>
29
```

```
30
              </div>
              <div className='collection'>
31
              {pokemons.map((pokemon) => (
32
                <Link key={pokemon.id} to={`/pokemons/${pokemon.id}`} cla
33
                  {pokemon.name}
34
                </Link>
35
              ))}
36
              </div>
37
38
           </div>
           </div>
39
         </div>
40
         </div>
41
42
       );
43
44
45
     export default PokemonSearch;
```

Components/loader.tsx

```
import React, { FunctionComponent } from 'react';
 1
 2
 3
     const Loader: FunctionComponent = () => {
 4
 5
       return (
         <div className="preloader-wrapper big active">
 6
 7
           <div className="spinner-layer spinner-blue">
             <div className="circle-clipper left">
 8
                <div className="circle"></div>
 9
             </div>
10
             <div className="gap-patch">
11
                <div className="circle"></div>
12
             </div><div className="circle-clipper right">
13
                <div className="circle"></div>
14
15
             </div>
           </div>
16
17
        </div>
18
       );
19
20
     export default Loader;
```

## pages/login.tsx

```
Páquinárar la cada initial du compaçant login tev
```

Important: Ce fichier doit être récupéré depuis un autre site où est hébergé le code de correction du cours. En effet, dans ce composant j'utilise des emojis ainsi que le

symbole « && », qui ne sont pas pris en compte par le plugin de coloration syntaxique utilisé sur ce site. Merci de votre compréhension ! ••

#### PrivateRoute.tsx

```
import React from 'react';
 1
     import { Route, Redirect } from 'react-router-dom';
 2
 3
     import AuthenticationService from './services/authentication-service
4
 5
     const PrivateRoute = ({ component: Component, ...rest }: any) => (
       <Route {...rest} render={(props) => {
 6
 7
         const isAuthenticated = AuthenticationService.isAuthenticated;
         if (!isAuthenticated) {
8
 9
           return <Redirect to={{ pathname: '/login' }} />
10
11
12
         return <Component {...props} />
13
       }} />
14
     );
15
16
     export default PrivateRoute;
```

### services/pokemon-service.ts (version de PRODUCTION)

```
import Pokemon from "../models/pokemon";
 1
     import POKEMONS from "../models/mock-pokemon";
 2
 3
 4
     export default class PokemonService {
 5
       static pokemons:Pokemon[] = POKEMONS;
 6
 7
       static isDev = (!process.env.NODE ENV || process.env.NODE ENV ==
 8
 9
       static getPokemons(): Promise<Pokemon[]> {
10
         if(this.isDev) {
11
12
           return fetch('http://localhost:3001/pokemons')
           .then(response => response.json())
13
           .catch(error => this.handleError(error));
14
         }
15
16
         return new Promise(resolve => {
17
           resolve(this.pokemons);
18
19
         });
       }
20
21
       static getPokemon(id: number): Promise<Pokemon|null> {
22
         if(this.isDev) {
23
           return fetch(`http://localhost:3001/pokemons/${id}`)
24
```

```
25
           .then(response => response.json())
26
           .then(data => this.isEmpty(data) ? null : data)
27
           .catch(error => this.handleError(error));
28
         }
29
30
         return new Promise(resolve => {
31
           resolve(this.pokemons.find(pokemon => id === pokemon.id));
32
         });
33
       }
34
35
       static updatePokemon(pokemon: Pokemon): Promise<Pokemon> {
         if(this.isDev) {
36
37
           return fetch(`http://localhost:3001/pokemons/${pokemon.id}`,
38
             method: 'PUT',
39
             body: JSON.stringify(pokemon),
             headers: { 'Content-Type': 'application/json'}
40
41
           })
42
           .then(response => response.json())
           .catch(error => this.handleError(error));
43
44
45
46
         return new Promise(resolve => {
           const { id } = pokemon;
47
48
           const index = this.pokemons.findIndex(pokemon => pokemon.id
49
           this.pokemons[index] = pokemon;
50
           resolve(pokemon);
51
         });
       }
52
53
54
       static deletePokemon(pokemon: Pokemon): Promise<{}> {
55
         if(this.isDev) {
56
           return fetch(`http://localhost:3001/pokemons/${pokemon.id}`,
57
             method: 'DELETE',
58
             headers: { 'Content-Type': 'application/json'}
59
           })
           .then(response => response.json())
60
61
           .catch(error => this.handleError(error));
         }
62
63
64
         return new Promise(resolve => {
65
           const { id } = pokemon;
           this.pokemons = this.pokemons.filter(pokemon => pokemon.id !
66
67
           resolve({});
68
         });
69
       }
70
       static addPokemon(pokemon: Pokemon): Promise<Pokemon> {
71
72
         pokemon.created = new Date(pokemon.created);
73
74
         if(this.isDev) {
75
           return fetch(`http://localhost:3001/pokemons`, {
76
             method: 'POST',
77
             body: JSON.stringify(pokemon),
78
             headers: { 'Content-Type': 'application/json'}
```

```
79
            })
            .then(response => response.json())
 80
            .catch(error => this.handleError(error));
 81
 82
          }
 83
 84
          return new Promise(resolve => {
 85
            this.pokemons.push(pokemon);
 86
            resolve(pokemon);
 87
          });
        }
 88
 89
        static searchPokemon(term: string): Promise<Pokemon[]> {
 90
 91
          if(this.isDev) {
 92
            return fetch(`http://localhost:3001/pokemons?q=${term}`)
 93
            .then(response => response.json())
 94
            .catch(error => this.handleError(error));
 95
          }
 96
 97
          return new Promise(resolve => {
 98
            const results = this.pokemons.filter(pokemon => pokemon.name
99
            resolve(results);
100
          });
101
102
        }
103
        static isEmpty(data: Object): boolean {
104
105
          return Object.keys(data).length === 0;
        }
106
107
        static handleError(error: Error): void {
108
109
          console.error(error);
110
        }
111
      }
```