

Aplicações para a Internet II

Create App React with Bootstrap

2021/2022

<React.js (Frontend)/>

Para instalar é necessário executar o comando seguinte:

npx create-react-app frontend

```
Success! Created frontend at C:\nodejsSites\react\frontend
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

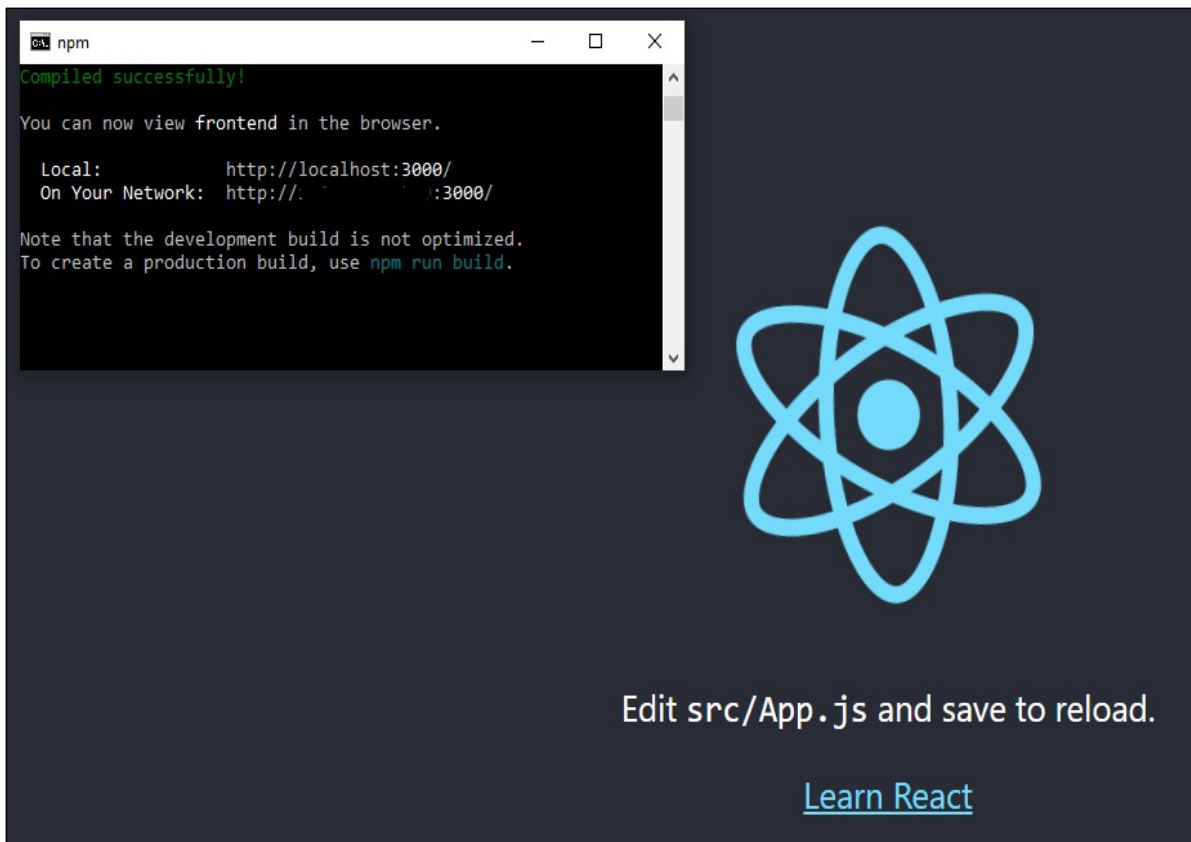
  cd frontend
  npm start

Happy hacking!
C:\nodejsSites\react>
```

<React.js (Frontend)/>

Para executar a aplicação, devemos entrar na diretoria ***frontend*** e executar o comando:

npm start



< Instalação do Bootstrap / >

- Neste exercício vamos utilizar o Bootstrap, e para isso é necessário instalar o JQuery. Para isso vamos executar os seguintes comandos:

```
npm install jquery popper.js
```

```
...
```

```
npm install bootstrap
```

< Componentes / >

- A aplicação vai ter três componentes (vistas):
 1. **./view/form:** apresentar o formulário para registo de employee;
 2. **./view/list:** listar os employee existentes;
 3. **./view/edit:** apresentar o formulário para edição de employee.

- Instalação de uma solução de roteamento, o **React Router**.

npm install react-router-dom

- Adicionar o código seguinte no ficheiro **App.js**:

import { BrowserRouter as Router, Route, Link, Routes } from "react-router-dom";

- Uma outra consideração que devemos ter em conta é colocar:

<Router>

...

// a nossa App

...

</Router>

< Componentes / >

- Definição de rotas no ficheiro App.js

<Routes>

<Route path="/" element={<List/>} />

<Route path="/form" element={<Form/>} />

<Route path="/edit/:employeeId" element={<Edit/>} />

</Routes>

< Componentes / >

- *src/view/list.js*

```
import React from 'react';
```

```
import 'bootstrap/dist/css/bootstrap.min.css';
```

```
import 'bootstrap/dist/js/bootstrap.bundle.min';
```

```
export default function ListComponent(){
```

```
  return (
```

```
    <table class="table table-hover table-striped">
```

```
      <thead class="thead-dark">
```

```
        <tr>
```

```
          <th scope="col">#</th>
```

```
          <th scope="col">Role</th>
```

```
          <th scope="col">Name</th>
```

```
          <th scope="col">Email</th>
```

```
          <th scope="col">Address</th>
```

```
          <th scope="col">Phone</th>
```

```
          <th colspan="2">Action</th>
```

```
        </tr>
```

```
      </thead>
```

```
      <tbody>
```

```
        <tr>
```

```
          <th>1</th>
```

```
          <td>Admin</td>
```

```
          <td>Nuno Costa</td>
```

```
          <td>ncosta@estgv.ipv.pt</td>
```

```
          <td>Viseu</td>
```

```
          <td>232480533</td>
```

```
          <td>
```

```
            <button class="btn btn-outline-info "> Edit
```

```
          </button>
```

```
          </td>
```

```
          <td>
```

```
            <button class="btn btn-outline-danger "> Delete
```

```
          </button>
```

```
          </td>
```

```
        </tr>
```

```
      </tbody>
```

```
    </table>
```

```
  );
```

```
}
```

< Componentes / >

- *src/view/form.js*

```
import 'bootstrap/dist/css/bootstrap.min.css';
import 'bootstrap/dist/js/bootstrap.bundle.min';
import React, {useEffect, useState} from "react";
```

```
export default function EditComponent(){
  return (
    <div>
      <div className="form-row justify-content-center">
        <div className="form-group col-md-6">
          <label htmlFor="inputPassword4">Name </label>
          <input type="text" className="form-control"
placeholder="Name" />
        </div>
        <div className="form-group col-md-6">
          <label htmlFor="inputEmail4">Email</label>
          <input type="email" className="form-control"
placeholder="Email" />
        </div>
      </div>
    </div>
  );
}
```

```
<div className="form-row">
```

```
  <div className="form-group col-md-6">
    <label htmlFor="inputState">Role</label>
    <select id="inputState" className="form-control">
      <option defaultValue>Choose...</option>
      <option value="1">Admin...</option>
      <option value="2">Project Manager</option>
      <option value="3">Programmer</option>
    </select>
  </div>
  <div className="form-group col-md-6">
    <label htmlFor="inputEmail4">Phone</label>
    <input type="number" className="form-control"
placeholder="Phone" />
  </div>
  <div className="form-group">
    <label htmlFor="inputAddress">Address</label>
    <input type="text" className="form-control" id="inputAddress"
placeholder="1234 Main St" />
  </div>
  <button type="submit" className="btn btn-primary">Save</button>
</div>
);
```

```
}
```


< Componentes / >

- *src/view/edit.js*

```
import 'bootstrap/dist/css/bootstrap.min.css';
import 'bootstrap/dist/js/bootstrap.bundle.min';
import React, {useEffect, useState} from "react";
import {useParams} from "react-router-dom";

export default function EditComponent(){

    const {employeeId} = useParams();
    return (
        <div>
            <div className="form-row justify-content-center">
                <div className="form-group col-md-6">
                    <label htmlFor="inputPassword4">Name</label>
                    <input type="text" className="form-control"
placeholder="Name"/>
                </div>
                <div className="form-group col-md-6">
                    <label htmlFor="inputEmail4">Email</label>
                    <input type="email" className="form-control"
placeholder="Email"/>
                </div>
            </div>
        </div>
    );
}
```

```
<div className="form-row">
    <div className="form-group col-md-6">
        <label htmlFor="inputState">Role</label>
        <select id="inputState" className="form-control">
            <option value="1">Admin</option>
            <option value="2">Project Manager</option>
            <option value="3">Programmer</option>
        </select>
    </div>

    <div className="form-group col-md-6">
        <label htmlFor="inputEmail4">Phone</label>
        <input type="number" className="form-control"
placeholder="Phone" />
    </div>
</div>

<div className="form-group">
    <label htmlFor="inputAddress">Address</label>
    <input type="text" className="form-control"
id="inputAddress" placeholder="1234 Main St"/>
</div>

<button type="submit" className="btn btn-
primary">Update</button>
</div>
);
}
```

< Componentes / >

- *src/App.js*

```
import React from 'react';
```

```
import 'bootstrap/dist/css/bootstrap.min.css';
```

```
import 'bootstrap/dist/js/bootstrap.bundle.min';
```

```
import { BrowserRouter as Router, Route, Link, Routes } from "react-router-dom";
```

```
import Form from './view/form';
```

```
import List from './view/list';
```

```
import Edit from './view/edit';
```

```
function App() {
```

```
  return (
```

```
    <Router>
```

```
      <div className="App">
```

```
        <nav class="navbar navbar-expand-lg navbar-light bg-light">
```

```
          <a class="navbar-brand" href="https://www.estgv.ipv.pt/" style={{color:'red',fontWeight:'bold'}}>www.estgv.ipv.pt</a>
```

```
          <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
```

```
            <span class="navbar-toggler-icon"></span>
```

```
          </button>
```

```
<div class="collapse navbar-collapse" id="navbarSupportedContent">
```

```
  <ul class="navbar-nav mr-auto">
```

```
    <li class="nav-item active">
```

```
      <Link class="nav-link" to="/"> Employee List </Link>
```

```
    </li>
```

```
  </ul>
```

```
  <Link class="btn btn-success " to="/form">Add Employee</Link>
```

```
</div>
```

```
</nav>
```

```
<div class="container py-4">
```

```
  <div class="row">
```

```
    <Routes>
```

```
      <Route path="/" element={<List/>} />
```

```
      <Route path="/form" element={<Form/>} />
```

```
      <Route path="/edit/:employeeId" element={<Edit/>} />
```

```
    </Routes>
```

```
  </div>
```

```
</div>
```

```
</Router>
```

```
</div>
```

```
);
```

```
}
```

```
export default App;
```

< Componentes / >

- <http://localhost:3000/>

www.estgv.ipv.pt Employee List Add Employee

#	Role	Name	Email	Address	Phone	Action
1	Admin	Nuno Costa	ncosta@estgv.ipv.pt	Viseu	232480533	Edit Delete

<http://localhost:3000/form>

www.estgv.ipv.pt Employee List Add Employee

Name 0

Role

Address

Sign in

<http://localhost:3000/edit/2391>

www.estgv.ipv.pt Employee List Add Employee

Name 2391

Role

Address

Sign in