

CURSO DE REACT

Celke

<https://www.youtube.com/watch?v=tPdoxF0kunU&list=PLmY5AEiqDWwDSteAR-56wL9LjHPK0mrYE>

Aula 01 - O que é o React - Como instalar

<https://pt-br.reactjs.org/>

<https://pt-br.reactjs.org/docs/create-a-new-react-app.html>

Requisitos

Create React App

Create React App é um ambiente confortável para **aprender React**, e é a melhor maneira de começar um **single-page application** em React.

Além de configurar seu ambiente de desenvolvimento para utilizar as funcionalidades mais recentes do JavaScript, ele fornece uma experiência de desenvolvimento agradável, e otimiza o seu app para produção. Será necessário ter **Node >= 10.16** e **npm >= 5.6** na sua máquina. Para criar um novo projeto, rode:

```
C:\celke\react>node -v
v14.15.3

C:\celke\react>npm -v
6.14.9
```

Instalando

```
npx create-react-app my-app
cd my-app
npm start
```

`npx create-react-app celketutorial`

```

C:\celke\react>npx create-react-app celketutorial
npx: installed 67 in 48.137s

Creating a new React app in C:\celke\react\celketutorial.

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

> core-js@2.6.12 postinstall C:\celke\react\celketutorial\node_modules\babel-runtime\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js@3.10.1 postinstall C:\celke\react\celketutorial\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js-pure@3.10.1 postinstall C:\celke\react\celketutorial\node_modules\core-js-pure
> node -e "try{require('./postinstall')}catch(e){}"

> ejs@2.7.4 postinstall C:\celke\react\celketutorial\node_modules\ejs
> node ./postinstall.js

+ react-scripts@4.0.3
+ react-dom@17.0.2
+ react@17.0.2
+ cra-template@1.1.2
added 1921 packages from 732 contributors and audited 1924 packages in 667.832s

135 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

Initialized a git repository.
Installing template dependencies using npm...

```

•
•
•

```

135 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

Created git commit.

Success! Created celketutorial at C:\celke\react\celketutorial
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:

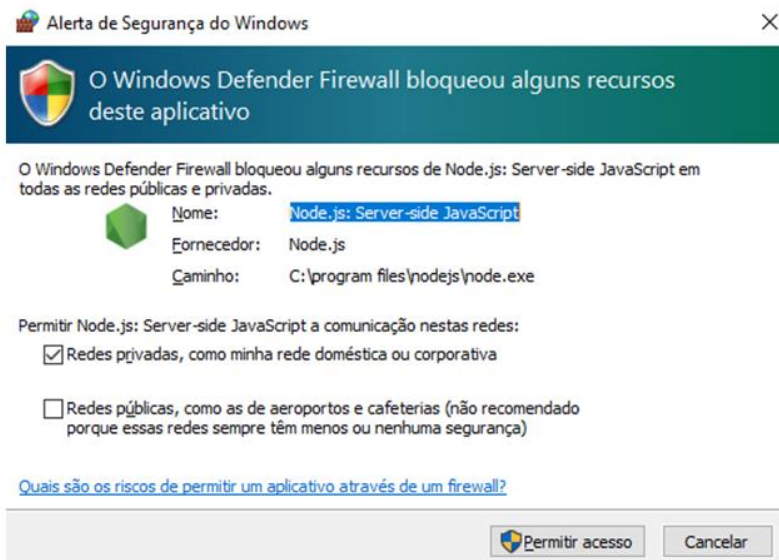
  cd celketutorial
  npm start

Happy hacking!

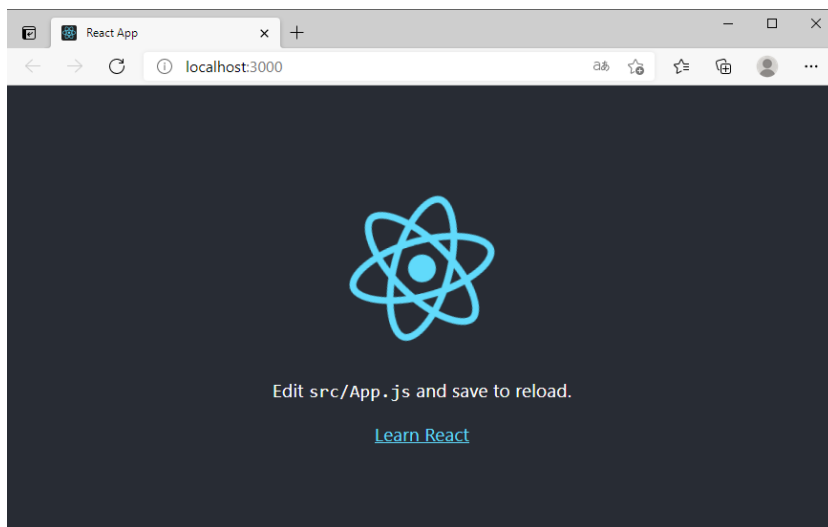
```

cd celketutorial

npm start



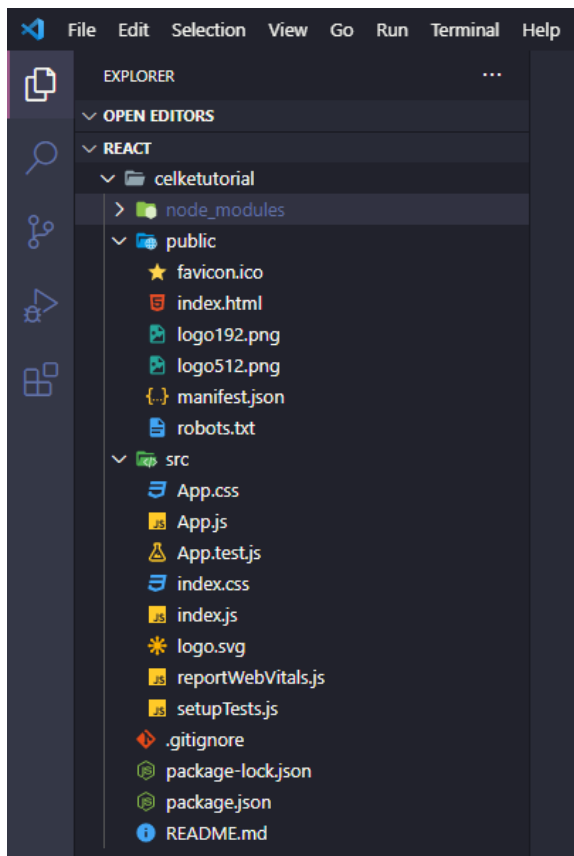
```
Compiled successfully!  
  
You can now view celketutorial in the browser.  
  
Local:      http://localhost:3000  
On Your Network:  http://192.168.0.157:3000  
  
Note that the development build is not optimized.  
To create a production build, use npm run build.
```



Abrindo o editor

code .

```
C:\celke\react>code .
```



Excluindo os arquivos que não serão utilizados

- Na pasta **public**, exclua os seguintes arquivos:

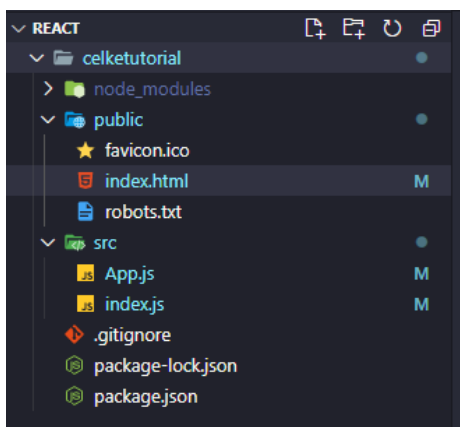
- logo192.png
- logo512.png
- manifest.json

- Na pasta src, exclua os seguintes arquivos:

- App.css
- App.test.js
- index.css
- logo.svg
- reportWebVitals.js
- setupTests.js

- Na pasta raiz:

- README.md



Alterando arquivos

celketutorial\src\App.js

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

```
function App() {  
  return (  
    <div>  
      Olá, Celke!  
    </div>  
  );  
}
```

```
export default App;
```

celketutorial\src\index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';
```

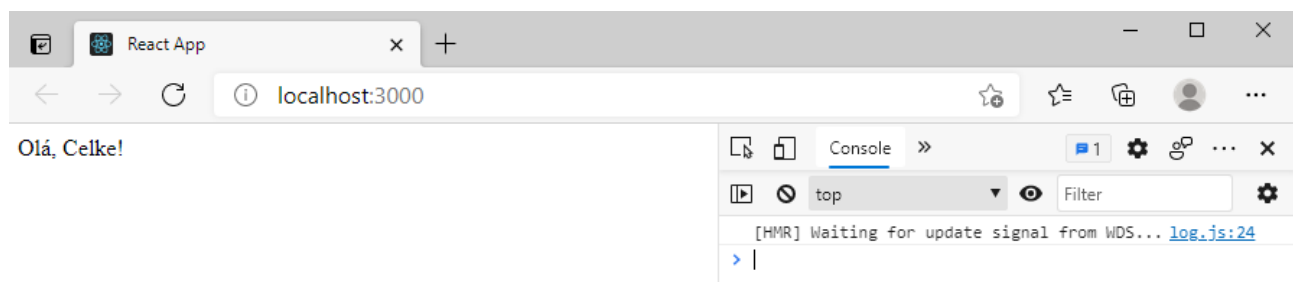
```
ReactDOM.render(<App />, document.getElementById('root'));
```

celketutorial\public\index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta name="theme-color" content="#000000" />
    <meta
      name="description"
      content="Web site created using create-react-app"
    />
    <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
    <title>React App</title>
  </head>
  <body>

    <noscript>You need to enable JavaScript to run this app.</noscript>
    <div id="root"></div>

  </body>
</html>
```



Aula 02 - O que é componente no React

- Para recriar a pasta node_modules:

`npm install`

Como utilizar mais de um componente em uma página

celketutorial\src\App.js

```
import React from 'react';

/*function App() {
  return (
    <div>
      Olá, Celke!
    </div>
  );
}*/

class App extends React.Component{
  render(){
    return (
      <div>
        <Headers />
        <Article />
        <Footer />
      </div>
    );
  }
}

export default App;
```

celketutorial\src\Headers.js

```
import React from 'react';

class Headers extends React.Component{
  render(){
    return (
      <h1>Cabeçalho</h1>
    )
  }
}

export default Headers;
```

celketutorial\src\Article.js

```
import React from 'react';

class Article extends React.Component{
  render(){
    return(
      <div>
        <h3>Título do artigo</h3>
        <p>Conteúdo do artigo</p>
      </div>
    );
  }
}

export default Article;
```

celketutorial\src\Footer.js

```
import React from 'react';

class Footer extends React.Component{
  render(){
    return(
      <div>
        <h4 style={{color: "green"}}>Rodapé 1</h4>
        <h4 style={{color: "#0000FF"}}>Rodapé 2</h4>
      </div>
    );
  }
}

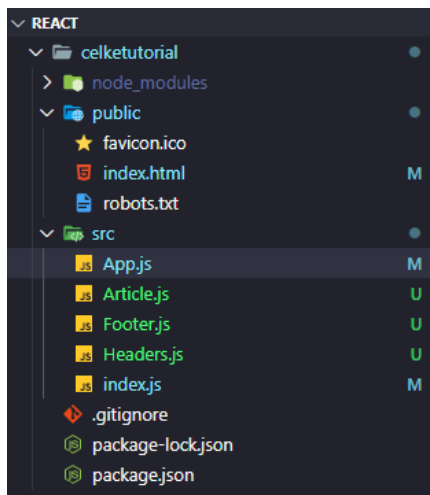
export default Footer;
```

celketutorial\src\App.js

```
import React from 'react';
import Headers from './Headers';
import Article from './Article';
import Footer from './Footer';

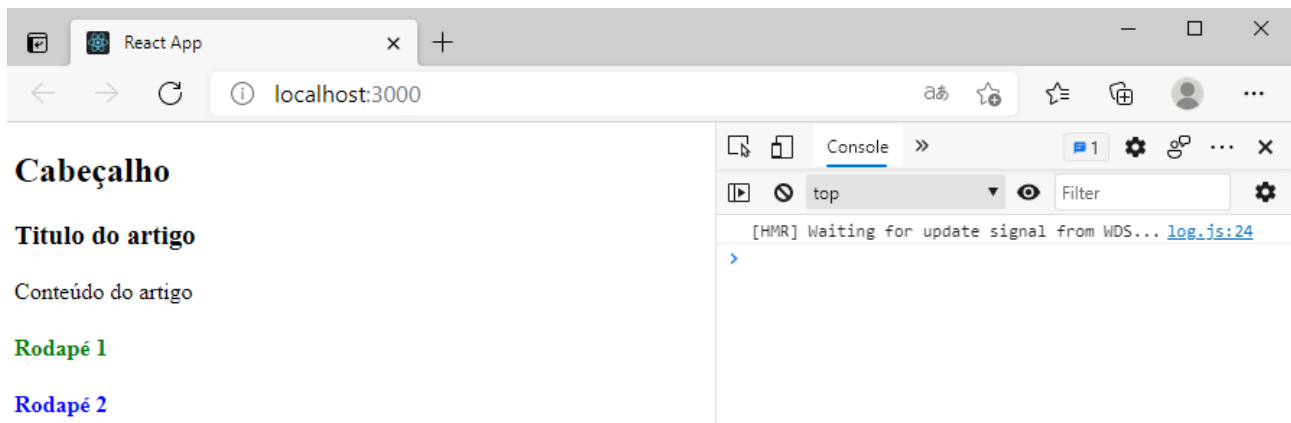
class App extends React.Component{
  render(){
    return (
      <div>
        <Headers />
        <Article />
        <Footer />
      </div>
    );
  }
}

export default App;
```

- Para executar o React

`npm start`



Aula 03 - Como integrar o React com Bootstrap

<https://reactstrap.github.io/>

Instalando o Bootstrap

Adding Bootstrap

Install reactstrap and Bootstrap from NPM. Reactstrap does not include Bootstrap CSS so this needs to be installed as well:

```
npm install --save bootstrap
npm install --save reactstrap react react-dom
```

- No terminal, entre com os seguintes comandos:

`npm install --save bootstrap`

```
C:\celke\react\celketutorial>npm install --save bootstrap
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN bootstrap@4.6.0 requires a peer of jquery@1.9.1 - 3 but none is installed. You must install peer dependencies yourself.
npm WARN bootstrap@4.6.0 requires a peer of popper.js@^1.16.1 but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ bootstrap@4.6.0
added 1 package from 2 contributors and audited 1953 packages in 165.06s

136 packages are looking for funding
  run `npm fund` for details
```

`npm install --save reactstrap react react-dom`

```
C:\celke\react\celketutorial>npm install --save reactstrap react react-dom
npm WARN deprecated popper.js@1.16.1: You can find the new Popper v2 at @popperjs/core, this package is dedicated to the legacy v1
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yourself.
npm WARN bootstrap@4.6.0 requires a peer of jquery@1.9.1 - 3 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react@17.0.2
+ react-dom@17.0.2
+ reactstrap@8.9.0
added 11 packages from 208 contributors, updated 2 packages and audited 1964 packages in 60.419s

137 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

Import Bootstrap CSS in the `src/index.js` file:

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

Import required reactstrap components within `src/App.js` file or your custom component files:

```
import { Button } from 'reactstrap';
```

Now you are ready to use the imported reactstrap components within your component hierarchy defined in the render method. Here is an example `App.js` redone using reactstrap.

celketutorial\src\App.js

```
import React from 'react';
import Headers from './Headers';
import Article from './Article';
import Footer from './Footer';
```

```
function App (props) {
  return (
    <div>
      <Headers />
      <Article />
      <Footer />
    </div>
  );
};
```

```
export default App;
```

<https://reactstrap.github.io/components/navbar/>

celketutorial\src\Headers.js

```
import React, { useState } from 'react';
import {
  Collapse,
  Navbar,
  NavbarToggler,
  NavbarBrand,
  Nav,
  NavItem,
  NavLink,
  UncontrolledDropdown,
  DropdownToggle,
  DropdownMenu,
  DropdownItem,
  NavbarText
} from 'reactstrap';

const Headers = (props) => {
  const [isOpen, setIsOpen] = useState(false);
  const toggle = () => setIsOpen(!isOpen);

  return (
    <div>
      <Navbar color="primary" dark expand="md">
        <NavbarBrand href="/">Celke</NavbarBrand>
        <NavbarToggler onClick={toggle} />
        <Collapse isOpen={isOpen} navbar>
          <Nav className="mr-auto" navbar>
            <NavItem>
              <NavLink href="https://celke.com.br">Site Celke</NavLink>
            </NavItem>
            <NavItem>
              <NavLink href="https://github.com/reactstrap/reactstrap">GitHub</NavLink>
            </NavItem>
            <UncontrolledDropdown nav inNavbar>
              <DropdownToggle nav caret>
                Options
              </DropdownToggle>
              <DropdownMenu right>
                <DropdownItem>
                  Option 1
                </DropdownItem>
                <DropdownItem>
                  Option 2
                </DropdownItem>
                <DropdownItem divider />
                <DropdownItem>
                  Reset
                </DropdownItem>
              </DropdownMenu>
            </UncontrolledDropdown>
          </Nav>
          <NavbarText>Simple Text</NavbarText>
        </Collapse>
      </Navbar>
    </div>
  );
};
```

```

    </div>
  );
}

```

```
export default Headers;
```

celketutorial\src\Article.js

```

import React from 'react';
import { Jumbotron, Container } from 'reactstrap';

```

```

const Article = (props) => {
  return (
    <div>
      <Jumbotron fluid>
        <Container fluid>
          <h1 className="display-3">Título do artigo</h1>
          <p className="lead">Conteúdo do artigo. This is a modified jumbotron that occupies the entire horizontal space
of its parent.</p>
        </Container>
      </Jumbotron>
    </div>
  );
};

```

```
export default Article;
```

celketutorial\src\Footer.js

```

import React from 'react';
import { Table } from 'reactstrap';

```

```

const Footer = (props) => {
  return (
    <Table borderless>
      <thead>
        <tr>
          <th>#</th>
          <th>First Name</th>
          <th>Last Name</th>
          <th>Username</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <th scope="row">1</th>
          <td>Mark</td>
          <td>Otto</td>
          <td>@mdo</td>
        </tr>
        <tr>
          <th scope="row">2</th>
          <td>Jacob</td>
          <td>Thornton</td>
          <td>@fat</td>
        </tr>
      </tbody>
    </Table>
  );
};

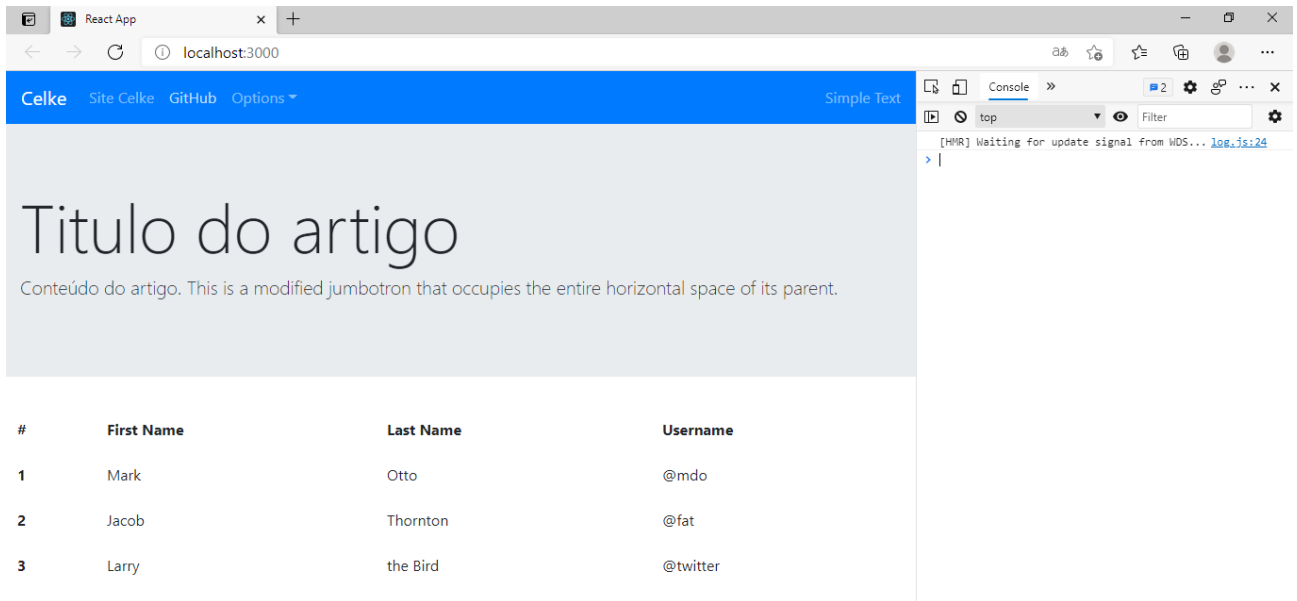
```

```

<tr>
  <th scope="row">3</th>
  <td>Larry</td>
  <td>the Bird</td>
  <td>@twitter</td>
</tr>
</tbody>
</Table>
);
}

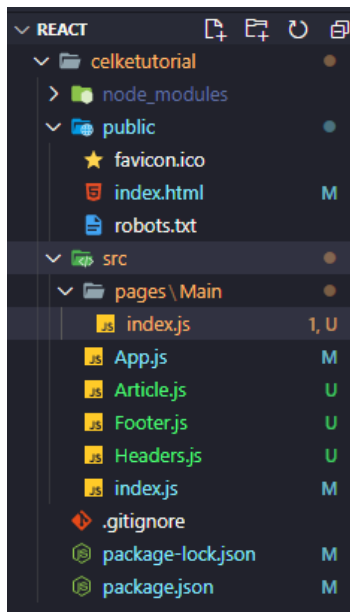
```

```
export default Footer;
```



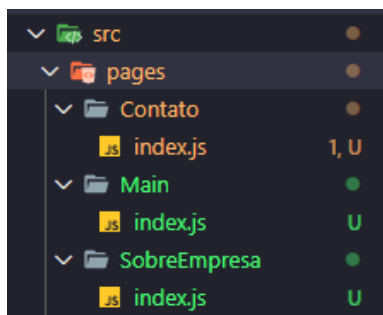
Aula 04 - Como criar rotas no React

- Crie dentro da pasta **src** uma subpasta chamada **pages**. Dentro dela uma subpasta chamada **Main**. E dentro dela um arquivo chamado **index.js**



- Dentro da pasta **pages**, crie uma subpasta chamada **SobreEmpresa**. E dentro desta pasta crie um arquivo chamado **index.js**

- Dentro da pasta **pages**, crie uma subpasta chamada **Contato**. E dentro desta pasta crie um arquivo chamado **index.js**



celketutorial\src\pages\Main\index.js

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

```
function Main(){  
  return(  
    <h1>Página Inicial</h1>  
  );  
}
```

```
export default Main;
```

celketutorial\src\pages\SobreEmpresa\index.js

```
import React from 'react';

function SobreEmpresa(){
  return(
    <h1>Página sobre Empresa</h1>
  );
}

export default SobreEmpresa;
```

celketutorial\src\pages\Contato\index.js

```
import React from 'react';

function Contato(){
  return(
    <h1>Página Contato</h1>
  );
}

export default Contato;
```

Instalar módulo para manipular rotas

npm install --save react-router-dom

```
C:\celke\react\celketutorial>npm install --save react-router-dom
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is
installed. You must install peer dependencies yourself.
npm WARN bootstrap@4.6.0 requires a peer of jquery@1.9.1 - 3 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >
= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react-router-dom@5.2.0
added 11 packages from 6 contributors and audited 1975 packages in 116.903s

137 packages are looking for funding
  run `npm fund` for details
```

- Na pasta **src** crie um arquivo chamado **routes.js**

celketutorial\src\routes.js

```
import React from 'react';
import {BrowserRouter, Switch, Route} from 'react-router-dom';

import Main from './pages/Main';
import SobreEmpresa from './pages/SobreEmpresa';
import Contato from './pages/Contato';

function Routes(){
  return(
    <BrowserRouter>
      <Switch>
        <Route path="/" exact component={Main} />
        <Route path="/sobre-empresa" component={SobreEmpresa} />
        <Route path="/contato" component={Contato} />
      </Switch>
    </BrowserRouter>
  );
};

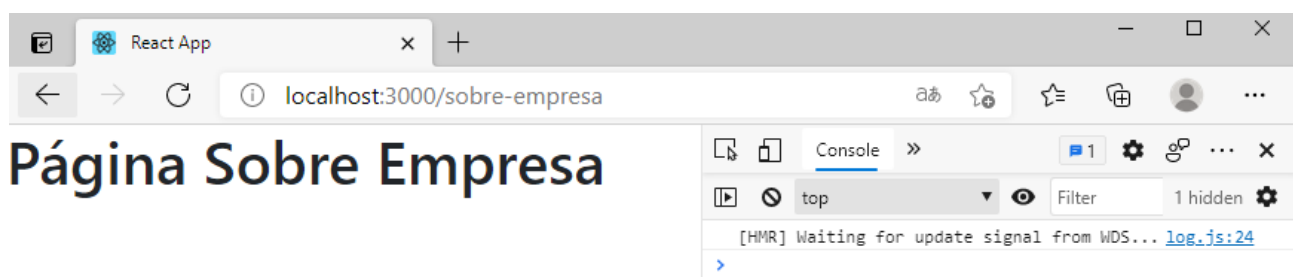
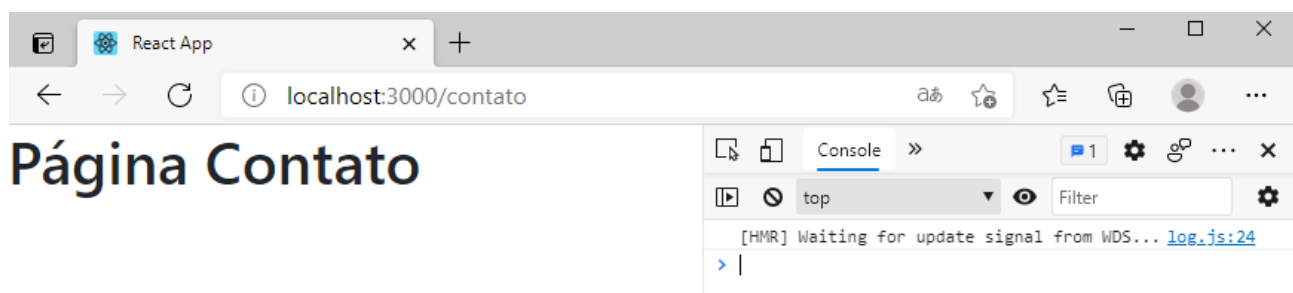
export default Routes;
```

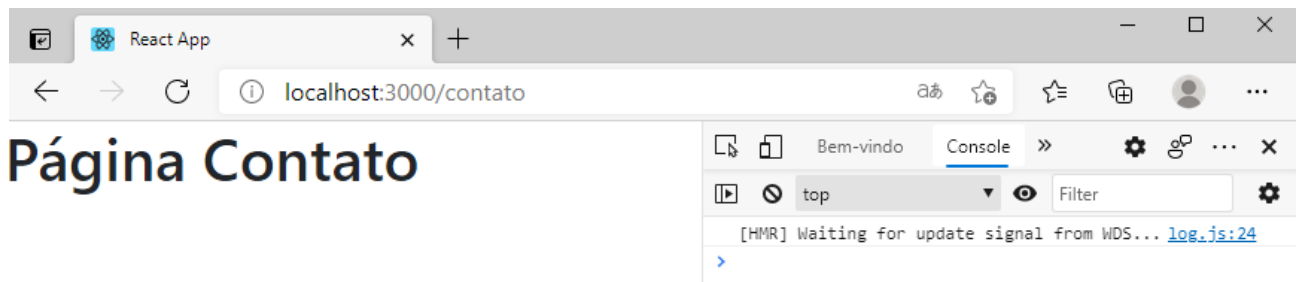
celketutorial\src\App.js

```
import React from 'react';
import Routes from './routes';

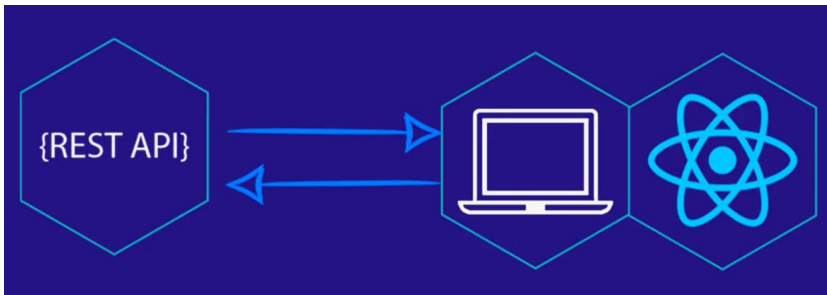
function App (props) {
  return (
    <div>
      <Routes />
    </div>
  );
};

export default App;
```





Aula 05 - Como consumir dados da API com React



Criando a aplicação

`npx create-react-app react_api`

```
C:\celke\react>npx create-react-app react_api
npx: installed 67 in 85.83s

Creating a new React app in C:\celke\react\react_api.

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

> core-js@2.6.12 postinstall C:\celke\react\react_api\node_modules\babel-runtime\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js@3.10.2 postinstall C:\celke\react\react_api\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js-pure@3.10.2 postinstall C:\celke\react\react_api\node_modules\core-js-pure
> node -e "try{require('./postinstall')}catch(e){}"

> ejs@2.7.4 postinstall C:\celke\react\react_api\node_modules\ejs
> node ./postinstall.js

+ react-dom@17.0.2
+ react@17.0.2
+ cra-template@1.1.2
+ react-scripts@4.0.3
added 1921 packages from 732 contributors and audited 1924 packages in 577.269s

135 packages are looking for funding
```

.
.
.

```
removed 1 package and audited 1952 packages in 25.517s

135 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

Created git commit.

Success! Created react_api at C:\celke\react\react_api
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 react_api
  npm start

Happy hacking!
```

cd react_api

code .

Excluindo os arquivos que não serão utilizados

- Na pasta **public**, exclua os seguintes arquivos:

- logo192.png
- logo512.png
- manifest.json

- Na pasta **src**, exclua os seguintes arquivos:

- App.css
- App.test.js
- index.css
- logo.svg
- reportWebVitals.js
- setupTests.js

Alterando arquivos

public\index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <meta name="theme-color" content="#000000" />
  <meta
    name="description"
    content="Web site created using create-react-app"
  />
  <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
  <title>React App</title>
</head>
<body>
  <noscript>You need to enable JavaScript to run this app.</noscript>
  <div id="root"></div>
</body>
</html>
```

src\index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';

ReactDOM.render(<App />, document.getElementById('root'));
```

src\App.js

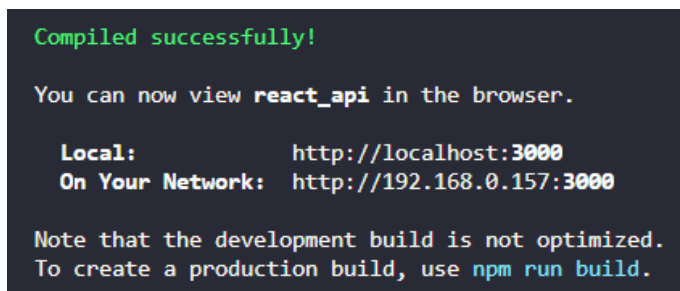
```
import React from 'react';

function App() {
  return (
    <div>
      <h1>Listar</h1>
    </div>
  );
}

export default App;
```

- No Visual Studio Code, abra um terminal e inicie o React:

`npm start`

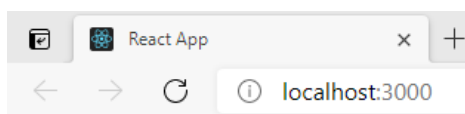


```
Compiled successfully!

You can now view react_api in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.0.157:3000

Note that the development build is not optimized.
To create a production build, use npm run build.
```



Listar

API

<http://api.tvmaze.com/search/shows?q=star+wars>

```
// @babel/runtime
// http://api.tvmaze.com/search/shows?q=star+wars
{
  {
    "score": 26.7722,
    "name": {
      "id": 1229,
      "url": "http://www.tvmaze.com/shows/1229/star-wars-clone-wars",
      "name": "Star Wars: Clone Wars",
      "type": "animation",
      "language": "English",
      "genres": ["sci-fi"],
      "status": "ended",
      "runtime": 22,
      "premiered": "2003-11-07",
      "officialSite": null,
      "network": {"id": null, "name": null},
      "rating": {"id": null, "name": null},
      "weight": 1,
      "networks": [{"id": null, "name": null}],
      "webChannel": {"id": null, "name": null},
      "webChannels": [{"id": null, "name": null}],
      "language": {"id": null, "name": null},
      "summary": "The Clone Wars television series chronicles the events taking place between Star Wars Episode II: Attack of the Clones and Star Wars Episode III: Revenge of the Sith. The Clone Wars will ultimately lead to the downfall of the Jedi and the rise of the Galactic Empire."
    },
    "id": 1229,
    "score": 26.7722,
    "name": {
      "id": 1229,
      "url": "http://www.tvmaze.com/shows/1229/star-wars-clone-wars",
      "name": "Star Wars: Clone Wars",
      "type": "animation",
      "language": "English",
      "genres": ["sci-fi"],
      "status": "ended",
      "runtime": 22,
      "premiered": "2003-11-07",
      "officialSite": null,
      "network": {"id": null, "name": null},
      "rating": {"id": null, "name": null},
      "weight": 1,
      "networks": [{"id": null, "name": null}],
      "webChannel": {"id": null, "name": null},
      "webChannels": [{"id": null, "name": null}],
      "language": {"id": null, "name": null},
      "summary": "The Clone Wars television series chronicles the events taking place between Star Wars Episode II: Attack of the Clones and Star Wars Episode III: Revenge of the Sith. The Clone Wars will ultimately lead to the downfall of the Jedi and the rise of the Galactic Empire."
    }
  }
}
```

- Instale axios

Using npm:

`npm install --save axios`

```
betol@DESKTOP-85HCH0 MINGW64 /c/celke/react/react_api (master)
$ npm install --save axios
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is
installed. You must install peer dependencies yourself.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >
= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (curre
nt: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (curre
nt: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (curre
nt: {"os":"win32","arch":"x64"})

+ axios@0.21.1
added 1 package from 1 contributor and audited 1953 packages in 167.079s

135 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

- Dentro da pasta **src**, crie um arquivo chamado **api.js** e dentro desse arquivo:

src/api.js

import axios from 'axios';

```
const api = axios.create({
  baseURL: 'http://api.tvmaze.com/search/shows?q='
});
```

export default api;

src\App.js

```
import React, { Component } from 'react';
import api from './api';

class App extends Component{

  state = {
    filmes: [],
  }

  async componentDidMount(){
    const response = await api.get('star%20wars');
    // const response = await api.get('batman');
    this.setState({ filmes: response.data});
  }

  render(){

    const {filmes} = this.state;

    return(
      <div>
        <h1>Listar os filmes</h1>
        {filmes.map(filme => (
          <div key={filme.show.id}>
            <h2>
              <strong>Título: </strong>
              {filme.show.name}
            </h2>
            <p>
              {filme.show.url}
            </p>
            <hr />
          </div>
        ))}
      </div>
    );
  }
}

export default App;
```

Listar os filmes

Título: Star Wars: Clone Wars

<https://www.tvmaze.com/shows/1259/star-wars-clone-wars>

Título: Star Wars Rebels

<https://www.tvmaze.com/shows/117/star-wars-rebels>

Título: Star Wars: Visions

<https://www.tvmaze.com/shows/52340/star-wars-visions>

Título: Star Wars: The Clone Wars

<https://www.tvmaze.com/shows/563/star-wars-the-clone-wars>

Título: Star Wars: The Bad Batch

<https://www.tvmaze.com/shows/49190/star-wars-the-bad-batch>

Título: Star Wars: Jedi Temple Challenge

<https://www.tvmaze.com/shows/45320/star-wars-jedi-temple-challenge>

Título: Star Wars Resistance

<https://www.tvmaze.com/shows/36483/star-wars-resistance>

Título: I've Never Seen Star Wars

<https://www.tvmaze.com/shows/5141/ive-never-seen-star-wars>

Título: LEGO Star Wars: Droid Tales

<https://www.tvmaze.com/shows/2269/lego-star-wars-droid-tales>

Título: Star Wars Galaxy of Adventures

<https://www.tvmaze.com/shows/39912/star-wars-galaxy-of-adventures>

Aula 06 - Como consumir dados da API própria com React

- Inicie um novo projeto React, do zero:

`npx create-react-app tutorialconsapi`

```
found 79 moderate severity vulnerabilities
  run `npm audit fix` to fix them, or `npm audit` for details

Created git commit.

Success! Created tutorialconsapi at C:\celke\react\tutorialconsapi
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 tutorialconsapi
  npm start

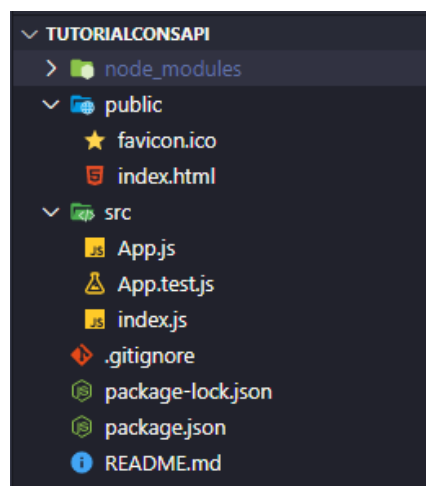
Happy hacking!

C:\celke\react>
```

`cd tutorialconsapi`

`code .`

- Deixe apenas os seguintes arquivos:



- Altere os arquivos:

src\index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';

ReactDOM.render(<App />, document.getElementById('root'));
```

src\App.js

```
import React from 'react';

function App() {
  return (
    <div>
      <h1>Listar artigos</h1>
    </div>
  );
}

export default App;
```

public\index.html

```
<!DOCTYPE html>
<html lang="pt-BR">
  <head>
    <meta charset="utf-8" />
    <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta name="theme-color" content="#000000" />
    <meta
      name="description"
      content="Web site created using create-react-app"
    />
    <title>React App</title>
  </head>
  <body>
    <div id="root"></div>
  </body>
</html>
```

Rodando o projeto

npm start

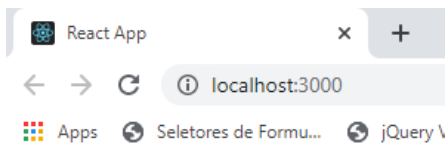
```
Compiled successfully!

You can now view tutorialconsapi in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.0.157:3000

Note that the development build is not optimized.
To create a production build, use npm run build.
```

localhost:3000



Listar artigos

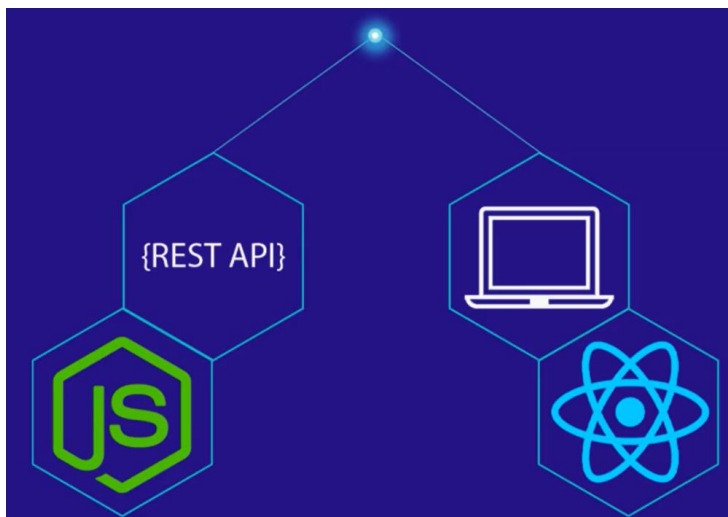
Rodando a API criada em Node.JS

cd\celke\nodejs\tutorial_api

```
C:\celke\react\tutorialconsapi>cd\celke\nodejs\tutorial_api  
C:\celke\nodejs\tutorial_api>code .
```

nodemon app.js

```
C:\celke\nodejs\tutorial_api>nodemon app.js  
[nodemon] 2.0.7  
[nodemon] to restart at any time, enter `rs`  
[nodemon] watching path(s): *.*  
[nodemon] watching extensions: js,mjs,json  
[nodemon] starting `node app.js`  
Servidor iniciado na porta 8080  
Conexão com mongoDB realizada com sucesso!  
█
```



- Criamos uma API com Node.JS e criamos um projeto utilizando React para consumir os dados dessa API.

- Voltando ao React:

- Instale o **axios**:

`npm install --save axios`

```
C:\celke\react\tutorialconsapi>npm install --save axios
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ axios@0.21.1
added 1 package from 1 contributor and audited 1956 packages in 94.285s

136 packages are looking for funding
  run `npm fund` for details

found 79 moderate severity vulnerabilities
  run `npm audit fix` to fix them, or `npm audit` for details
```

Essa dependência é utilizada para consumir dados de uma API.

src\api.js

```
import axios from 'axios';
```

```
const api = axios.create({
  baseURL: "http://localhost:8080"
});
```

```
export default api;
```

src\App.js

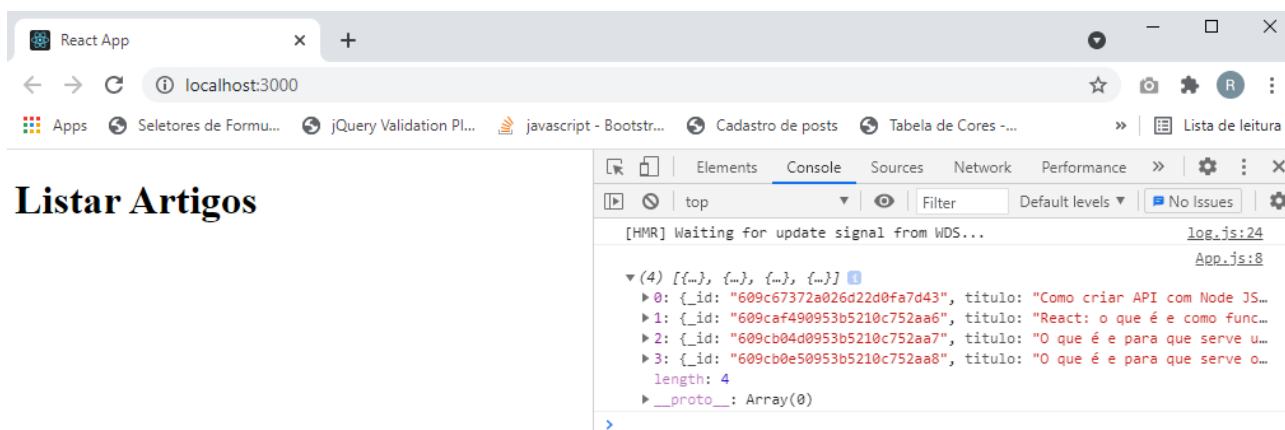
```
import React, { Component } from 'react';
import api from './api';
```

```
class App extends Component{

  async componentDidMount(){
    const response = await api.get('/artigo');
    console.log(response.data);
  }
}
```

```
render(){
  return(
    <div>
      <h1>Listar Artigos</h1>
    </div>
  );
};
```

```
export default App;
```



src\App.js

```
import React, { Component } from 'react';
import api from './api';
```

```
class App extends Component{
```

```
  state = {
    artigos: []
  }
```

```
  async componentDidMount(){
    const response = await api.get('/artigo');
    // console.log(response.data);
    this.setState({
      artigos: response.data
    });
  }
```

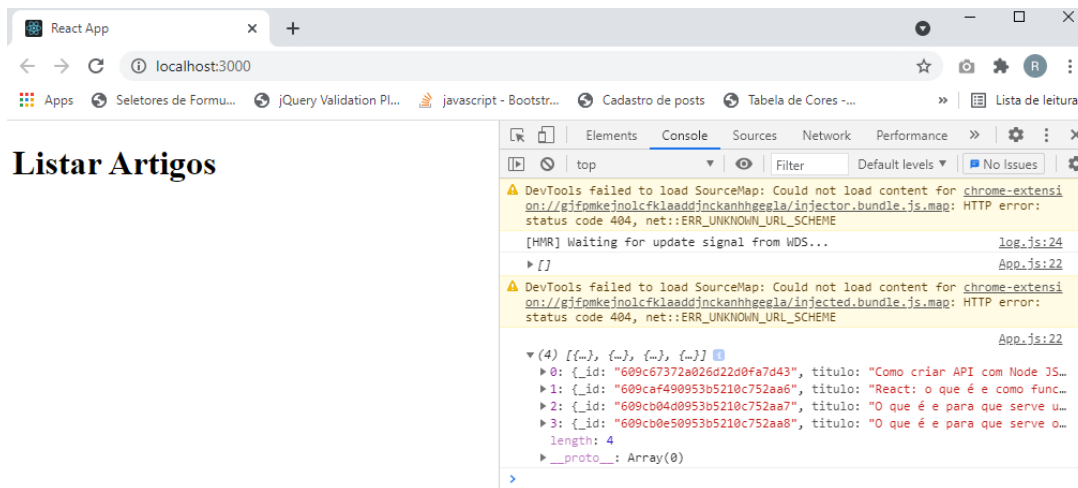
```
  render(){
```

```
    const {artigos} = this.state;
```

```
    console.log(artigos);
```

```
    return(
      <div>
        <h1>Listar Artigos</h1>
      </div>
    );
  };
};
```

```
export default App;
```



src\App.js

```
import React, { Component } from 'react';
import api from './api';

class App extends Component{

  state = {
    artigos: []
  }

  async componentDidMount(){
    const response = await api.get('/artigo');
    // console.log(response.data);
    this.setState({
      artigos: response.data
    });
  }

  render(){

    const {artigos} = this.state;
    console.log(artigos);

    return(
      <div>
        <h1>Listar Artigos</h1>
        <ul style={{listStyleType: "none", margin: 0, padding: 0}}>
          {artigos.map(artigo => (
            <li key={artigo._id}>
              <h2>Título: {artigo.titulo}</h2>
              <p>Conteúdo: {artigo.conteudo}</p>
            </li>
          ))}
        </ul>
      </div>
    );
  };
};

export default App;
```

React App

localhost:3000

AppsSeletores de Formu...jQuery Validation Pl...javascript - Bootstr...Cadastro de postsTabela de Cores ~...Sabe a conexão se...Lista de leitura

Listar Artigos

Título: Como criar API com Node JS

Conteúdo: Para criar a API com Node Js é necessário...

Título: React: o que é e como funciona essa ferramenta?

Conteúdo: Como definido por seus criadores, React é "uma biblioteca JavaScript declarativa, eficiente e flexível para a criação de interfaces de usuário (UI)".

Título: O que é e para que serve uma API?

Conteúdo: API é um conjunto de rotinas e padrões de programação para acesso a um aplicativo de software ou plataforma baseado na Web. Uma API é criada quando uma empresa de software tem a intenção de que outros criadores de software desenvolvam produtos associados ao seu serviço.

Título: O que é e para que serve o Node.JS

Conteúdo: Node.js é uma tecnologia assíncrona que trabalha em uma única thread de execução. Por assíncrona entenda que cada requisição ao Node.js não bloqueia o processo do mesmo, atendendo a um volume absurdamente grande de requisições ao mesmo tempo mesmo sendo single thread.

ElementsConsole

top3 hidden

[HMR] Waiting for update signal from WDS...log.js:24

▶ []App.js:21

▶ (4) [{"-}, {"-}, {"-}, {"-}]App.js:21

▶ []App.js:21

▶ (4) [{"-}, {"-}, {"-}, {"-}]App.js:21

>

Aula 07 - O que é Nextjs e como usar

- O React não renderiza o conteúdo na página e ao não renderizar prejudica o SEO. Para resolver este problema existe o Nextjs.

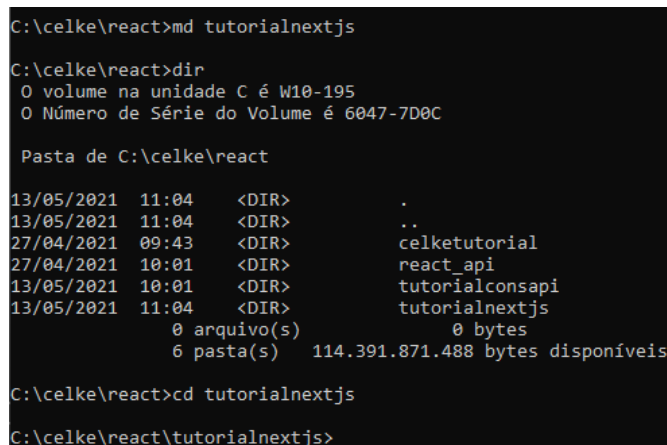


```
1 <!DOCTYPE html>
2 <html lang="pt-BR">
3   <head>
4     <meta charset="utf-8" />
5     <link rel="icon" href="/favicon.ico" />
6     <meta name="viewport" content="width=device-width, initial-scale=1" />
7     <meta name="theme-color" content="#000000" />
8     <meta
9       name="description"
10      content="Web site created using create-react-app"
11    />
12    <title>React App</title>
13  </head>
14  <body>
15    <div id="root"></div>
16    <script src="/static/js/bundle.js"></script><script src="/static/js/vendors-main.chunk.js"></script><script src="/static/js/main.chunk.js"></script></body>
17 </html>
```

Instalando o Nextjs no React

<https://nextjs.org/docs/getting-started>

- Crie a subpasta **tutorialnextjs**:



```
C:\celke\react>md tutorialnextjs

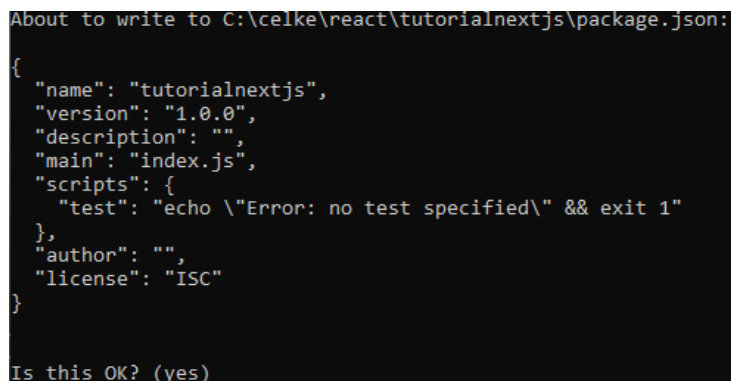
C:\celke\react>dir
O volume na unidade C é W10-195
O Número de Série do Volume é 6047-7D0C

Pasta de C:\celke\react

13/05/2021  11:04    <DIR>          .
13/05/2021  11:04    <DIR>          ..
27/04/2021  09:43    <DIR>          celketutorial
27/04/2021  10:01    <DIR>          react_api
13/05/2021  10:01    <DIR>          tutorialconsapi
13/05/2021  11:04    <DIR>          tutorialnextjs
                0 arquivo(s)                0 bytes
                6 pasta(s) 114.391.871.488 bytes disponíveis

C:\celke\react>cd tutorialnextjs
C:\celke\react\tutorialnextjs>
```

npm init



```
About to write to C:\celke\react\tutorialnextjs\package.json:
{
  "name": "tutorialnextjs",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}

Is this OK? (yes)
```

code .

```
C:\celke\react\tutorialnextjs>code .
```

Manual Setup

Install `next`, `react` and `react-dom` in your project:

```
npm install next react react-dom
# or
yarn add next react react-dom
```

`npm install --save next react react-dom`

```
C:\celke\react\tutorialnextjs>npm install --save next react react-dom
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~2.3.1 (node_modules\chokidar\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN tutorialnextjs@1.0.0 No description
npm WARN tutorialnextjs@1.0.0 No repository field.

+ react@17.0.2
+ react-dom@17.0.2
+ next@10.2.0
added 268 packages from 225 contributors and audited 269 packages in 111.544s

44 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

```
▼ TUTORIALNEXTJS
  > node_modules
    package-lock.json
    package.json
```

Open `package.json` and add the following `scripts`:

```
"scripts": {
  "dev": "next dev",
  "build": "next build",
  "start": "next start"
}
```

package.json

```
{
  "name": "tutorialnextjs",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "dev": "next dev",
    "build": "next build",
    "start": "next start"
  },
  "author": "",
  "license": "ISC",
  "dependencies": {
    "next": "^10.2.0",
    "react": "^17.0.2",
    "react-dom": "^17.0.2"
  }
}
```

Create a `pages` directory inside your project.

Populate `./pages/index.js` with the following contents:

```
function HomePage() {
  return <div>Welcome to Next.js!</div>
}

export default HomePage
```

- Para rodar, no terminal, entre com:

`npm run dev`

```
C:\celke\react\tutorialnextjs>npm run dev

> tutorialnextjs@1.0.0 dev C:\celke\react\tutorialnextjs
> next dev

ready - started server on 0.0.0.0:3000, url: http://localhost:3000
info - Using webpack 5. Reason: no next.config.js https://nextjs.org/docs/messages/webpack5
event - compiled successfully
Attention: Next.js now collects completely anonymous telemetry regarding usage.
This information is used to shape Next.js' roadmap and prioritize features.
You can learn more, including how to opt-out if you'd not like to participate in this anonymous program, by visiting the following URL:
https://nextjs.org/telemetry
```

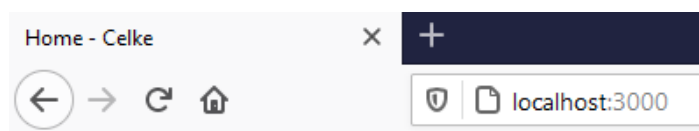
pages\index.js

```
import Head from 'next/head';
```

```
function Home() {  
  return(  
    <div>  
      <Head>  
        <title>Home - Celke</title>  
        <meta name='robots' content='index/follow' />  
        <meta name='description' content='Site de ... sobre ...' />  
      </Head>  
      <h1>Bem vindo, Celke!</h1>  
    </div>  
  )  
}
```

```
export default Home
```

localhost:3000



Bem vindo, Celke!

Código fonte da página

```
<!DOCTYPE html><html><head><style data-next-hide-fouc="true">body{display:none}</style><noscript data-next-  
hide-fouc="true"><style>body{display:block}</style></noscript><meta name="viewport" content="width=device-  
width"/><meta charset="utf-8"/><title>Home - Celke</title><meta name="robots" content="index/follow"/><meta  
name="description" content="Site de ... sobre ..."/><meta name="next-head-count" content="5"/><noscript data-n-  
css=""></noscript><link rel="preload" href="/_next/static/chunks/webpack.js?ts=1620917075429" as="script"/><link  
rel="preload" href="/_next/static/chunks/main.js?ts=1620917075429" as="script"/><link rel="preload"  
href="/_next/static/chunks/pages/_app.js?ts=1620917075429" as="script"/><link rel="preload"  
href="/_next/static/chunks/pages/index.js?ts=1620917075429" as="script"/><noscript  
id="__next_css_DO_NOT_USE__"></noscript></head><body><div id="__next"><div><h1>Bem vindo,  
Celke!</h1></div></div><script src="/_next/static/chunks/react-refresh.js?ts=1620917075429"></script><script  
id="__NEXT_DATA__"  
type="application/json">{"props":{"pageProps":{},"page":"/","query":{},"buildId":"development","nextExport":true,"  
autoExport":true,"isFallback":false}</script><script nomodule=""  
src="/_next/static/chunks/polyfills.js?ts=1620917075429"></script><script  
src="/_next/static/chunks/webpack.js?ts=1620917075429"></script><script  
src="/_next/static/chunks/main.js?ts=1620917075429"></script><script  
src="/_next/static/chunks/pages/_app.js?ts=1620917075429"></script><script  
src="/_next/static/chunks/pages/index.js?ts=1620917075429"></script><script  
src="/_next/static/development/_buildManifest.js?ts=1620917075429"></script><script  
src="/_next/static/development/_ssgManifest.js?ts=1620917075429"></script></body></html>
```

Aula 08 - Como consumir dados da API no Nextjs e React

- Crie a subpasta **tutorialnextapi**:

```
C:\celke\react>dir
O volume na unidade C é W10-195
O Número de Série do Volume é 6047-7D0C

Pasta de C:\celke\react

13/05/2021  17:14    <DIR>      .
13/05/2021  17:14    <DIR>      ..
27/04/2021  09:43    <DIR>      celketutorial
27/04/2021  10:01    <DIR>      react_api
13/05/2021  10:01    <DIR>      tutorialconsapi
13/05/2021  17:14    <DIR>      tutorialnextapi
13/05/2021  11:26    <DIR>      tutorialnextjs
                0 arquivo(s)                0 bytes
                7 pasta(s)          114.246.950.912 bytes disponíveis
```

cd tutorialnextapi

npm init -y

```
C:\celke\react>cd tutorialnextapi
C:\celke\react\tutorialnextapi>npm init -y
Wrote to C:\celke\react\tutorialnextapi\package.json:

{
  "name": "tutorialnextapi",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}
```

code .

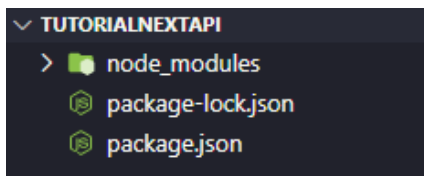
npm install --save next react react-dom

```
C:\celke\react\tutorialnextapi>npm install --save next react react-dom
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~2.3.1 (node_modules\chokidar\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN tutorialnextapi@1.0.0 No description
npm WARN tutorialnextapi@1.0.0 No repository field.

+ react@17.0.2
+ react-dom@17.0.2
+ next@10.2.0
added 268 packages from 225 contributors and audited 269 packages in 88.512s

44 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```



Open `package.json` and add the following `scripts`:

```
"scripts": {  
  "dev": "next dev",  
  "build": "next build",  
  "start": "next start"  
}
```

package.json

```
{  
  "name": "tutorialnextapi",  
  "version": "1.0.0",  
  "description": "",  
  "main": "index.js",  
  "scripts": {  
    "dev": "next dev",  
    "build": "next build",  
    "start": "next start"  
  },  
  "keywords": [],  
  "author": "",  
  "license": "ISC",  
  "dependencies": {  
    "next": "^10.2.0",  
    "react": "^17.0.2",  
    "react-dom": "^17.0.2"  
  }  
}
```

Create a `pages` directory inside your project.

Populate `./pages/index.js` with the following contents:

```
function HomePage() {  
  return <div>Welcome to Next.js!</div>  
}  
  
export default HomePage
```

pages\index.js

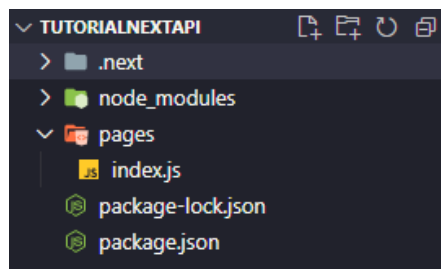
```
const Index = () => (  
  <div>  
    <h1>Artigos</h1>  
  </div>  
);
```

export default Index;

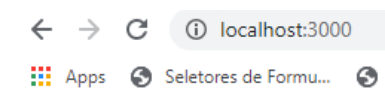
- Para rodar, no terminal, entre com:

`npm run dev`

```
C:\celke\react\tutorialnextapi>npm run dev  
  
> tutorialnextapi@1.0.0 dev C:\celke\react\tutorialnextapi  
> next dev  
  
ready - started server on 0.0.0.0:3000, url: http://localhost:3000  
info - Using webpack 5. Reason: no next.config.js https://nextjs.org/docs/messages/webpack5  
event - compiled successfully  
event - build page: /  
wait - compiling...  
event - compiled successfully
```



localhost:3000



Artigos

- Esse nosso projeto estará buscando os dados em uma API.

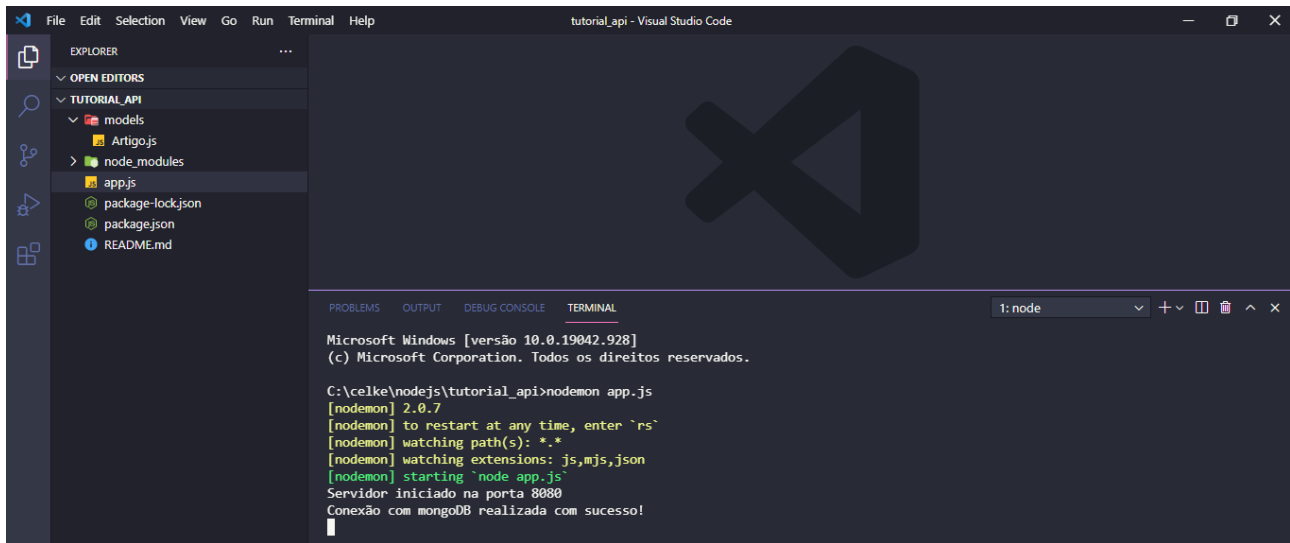
- Abra o projeto da API no NodeJS:

`cd/celke/nodejs/tutorial_api`
`code .`

```
C:\celke\react\tutorialnextapi>cd/celke/nodejs/tutorial_api  
C:\celke\nodejs\tutorial_api>code .
```

- No terminal, entre com:

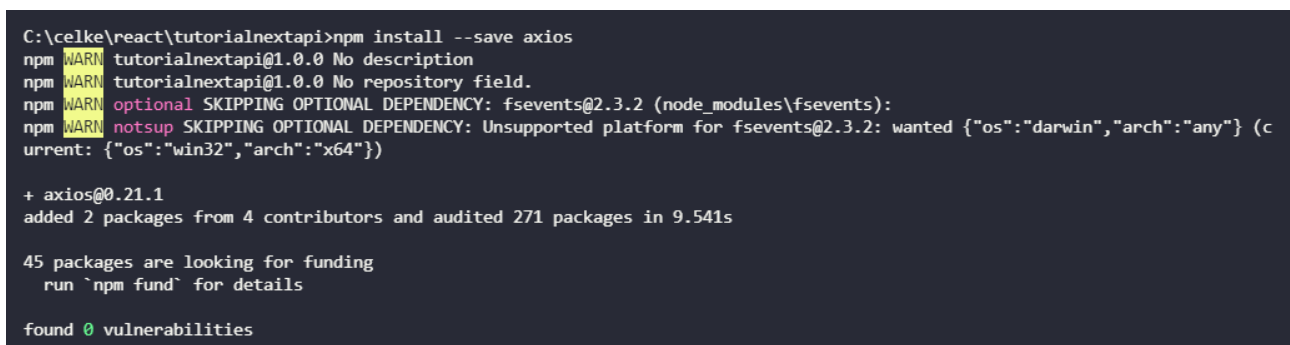
`nodemon app.js`



- Deixe rodando e volte em **tutorialnexapi**

- Instale o axios:

`npm install --save axios`



Essa dependência é utilizada para consumir dados de uma API.

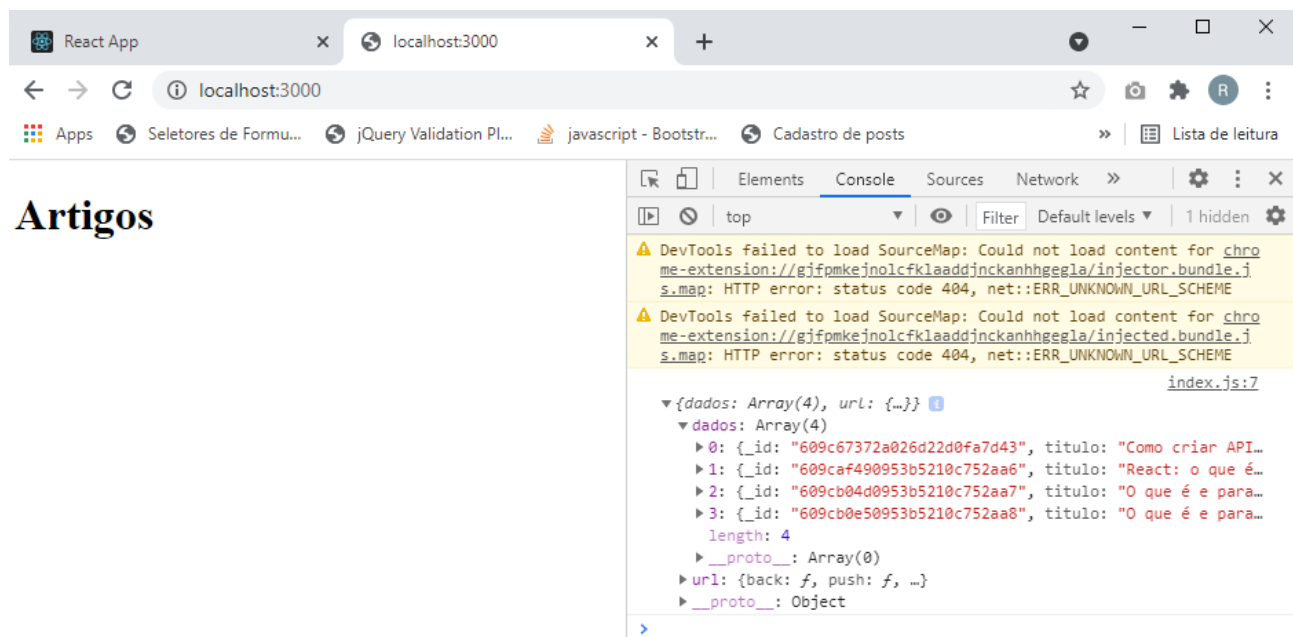
pages\index.js

```
import axios from 'axios';
```

```
const Index = (dados) => (  
  <div>  
    <h1>Artigos</h1>  
    {console.log(dados)}  
  </div>  
);
```

```
Index.getInitialProps = async () => {  
  const response = await axios.get(  
    'http://localhost:8080/artigo'  
  );  
  
  return {dados: response.data}  
}
```

```
export default Index;
```



React App localhost:3000

localhost:3000

Apps Seletores de Formu... jQuery Validation PL... javascript - Bootstr... Cadastro de posts Lista de leitura

Artigos

Elements Console Sources Network >> Filter Default levels 1 hidden

DevTools failed to load SourceMap: Could not load content for chrome-extension://gjfpmkejnolcfklaaddjnckanhhegla/injector.bundle.js.map: HTTP error: status code 404, net::ERR_UNKNOWN_URL_SCHEME

DevTools failed to load SourceMap: Could not load content for chrome-extension://gjfpmkejnolcfklaaddjnckanhhegla/injected.bundle.js.map: HTTP error: status code 404, net::ERR_UNKNOWN_URL_SCHEME

index.js:7

```
▼ {dados: Array(4), url: {...}}  
  ▼ dados: Array(4)  
    ► 0: {_id: "609c67372a026d22d0fa7d43", titulo: "Como criar API..."  
    ► 1: {_id: "609caf490953b5210c752aa6", titulo: "React: o que é..."  
    ► 2: {_id: "609cb04d0953b5210c752aa7", titulo: "O que é e para..."  
    ► 3: {_id: "609cb0e50953b5210c752aa8", titulo: "O que é e para..."  
      length: 4  
      __proto__: Array(0)  
    ► url: {back: f, push: f, ...}  
    ► __proto__: Object
```

pages\index.js

```
import axios from 'axios';
```

```
const Index = ({dados}) => (  
  <div>  
    <h1>Artigos</h1>  
    {console.log(dados)}  
  
    <ul>  
      {dados.map(artigo => (  
        <li key={artigo._id}>  
          <h2>{artigo.titulo}</h2>  
          <p>{artigo.conteudo}</p>  
        </li>  
      ))}  
    </ul>  
  
  </div>  
);
```

```
Index.getInitialProps = async () => {  
  const response = await axios.get(  
    'http://localhost:8080/artigo'  
  );  
  
  return {dados: response.data}  
}
```

```
export default Index;
```

localhost:3000

Artigos

- **Como criar API com Node JS**
Para criar a API com Node Js é necessário...
- **React: o que é e como funciona essa ferramenta?**
Como definido por seus criadores, React é “uma biblioteca JavaScript declarativa, eficiente e flexível para a criação de interfaces de usuário (UI)”.
- **O que é e para que serve uma API?**
API é um conjunto de rotinas e padrões de programação para acesso a um aplicativo de software ou plataforma baseado na Web. Uma API é criada quando uma empresa de software tem a intenção de que outros criadores de software desenvolvam produtos associados ao seu serviço.
- **O que é e para que serve o Node.JS**
Node.js é uma tecnologia assíncrona que trabalha em uma única thread de execução. Por assíncrona entenda que cada requisição ao Node.js não bloqueia o processo do mesmo, atendendo a um volume absurdamente grande de requisições ao mesmo tempo mesmo sendo single thread.

DevTools failed to load SourceMap: Could not load content for chrome-extension://ef1f0mke1nolcxfk1aaddjncnknhhsela/injector.bundle.js.map: HTTP error: status code 404, net::ERR_UNKNOWN_URL_SCHEME

DevTools failed to load SourceMap: Could not load content for chrome-extension://ef1f0mke1nolcxfk1aaddjncnknhhsela/injector.bundle.js.map: HTTP error: status code 404, net::ERR_UNKNOWN_URL_SCHEME

index.js:7

```
(4) [Object, Object, Object, Object]  
  0: {_id: "609c67372a026d22d0fa7d43", titulo: "Como criar API c...  
  1: {_id: "609cb4f490953b5210c752aa6", titulo: "React: o que é e...  
  2: {_id: "609cb04d0953b5210c752aa7", titulo: "O que é e para q...  
  3: {_id: "609cb0e50953b5210c752aa8", titulo: "O que é e para q...  
    length: 4  
    __proto__: Array(0)
```

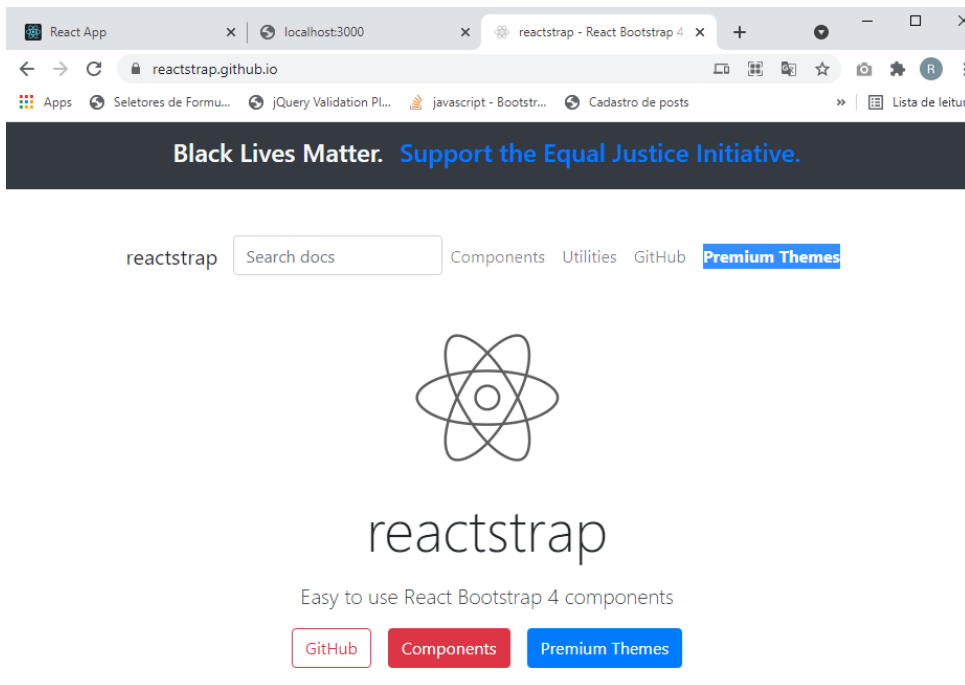
Código fonte da página

```
<!DOCTYPE html><html><head><style data-next-hide-fouc="true">body{display:none}</style><noscript
data-next-hide-fouc="true"><style>body{display:block}</style></noscript><meta charSet="utf-8"/><meta
name="viewport" content="width=device-width"/><meta name="next-head-count"
content="2"/><noscript data-n-css=""></noscript><link rel="preload"
href="/_next/static/chunks/webpack.js?ts=1620946117525" as="script"/><link rel="preload"
href="/_next/static/chunks/main.js?ts=1620946117525" as="script"/><link rel="preload"
href="/_next/static/chunks/pages/_app.js?ts=1620946117525" as="script"/><link rel="preload"
href="/_next/static/chunks/pages/index.js?ts=1620946117525" as="script"/><noscript
id="__next_css__DO_NOT_USE__"></noscript></head><body><div
id="__next"><div><h1>Artigos</h1><ul><li><h2>Como criar API com Node JS</h2><p>Para criar a API com
Node Js é necessário...</p></li><li><h2>React: o que é e como funciona essa ferramenta?</h2><p>Como
definido por seus criadores, React é “uma biblioteca JavaScript declarativa, eficiente e flexível para a
criação de interfaces de usuário (UI)”.</p></li><li><h2>O que é e para que serve uma API?</h2><p>API é
um conjunto de rotinas e padrões de programação para acesso a um aplicativo de software ou plataforma
baseado na Web. Uma API é criada quando uma empresa de software tem a intenção de que outros
criadores de software desenvolvam produtos associados ao seu serviço.</p></li><li><h2>O que é e para
que serve o Node.JS</h2><p>Node.js é uma tecnologia assíncrona que trabalha em uma única thread de
execução. Por assíncrona entenda que cada requisição ao Node.js não bloqueia o processo do mesmo,
atendendo a um volume absurdamente grande de requisições ao mesmo tempo mesmo sendo single
thread.</p></li></ul></div></div><script src="/_next/static/chunks/react-
refresh.js?ts=1620946117525"></script><script id="__NEXT_DATA__"
type="application/json">{"props":{"pageProps":{"dados":{"_id":"609c67372a026d22d0fa7d43","titulo":"C
omo criar API com Node JS","conteudo":"Para criar a API com Node Js é necessário...","createdAt":"2021-
05-12T23:39:35.076Z","updatedAt":"2021-05-
12T23:39:35.076Z","__v":0},"_id":"609caf490953b5210c752aa6","titulo":"React: o que é e como funciona
essa ferramenta?","conteudo":"Como definido por seus criadores, React é “uma biblioteca JavaScript
declarativa, eficiente e flexível para a criação de interfaces de usuário (UI)”.","createdAt":"2021-05-
13T04:47:05.488Z","updatedAt":"2021-05-
13T04:47:05.488Z","__v":0},"_id":"609cb04d0953b5210c752aa7","titulo":"O que é e para que serve uma
API?","conteudo":"API é um conjunto de rotinas e padrões de programação para acesso a um aplicativo de
software ou plataforma baseado na Web. Uma API é criada quando uma empresa de software tem a
intenção de que outros criadores de software desenvolvam produtos associados ao seu
serviço.","createdAt":"2021-05-13T04:51:25.343Z","updatedAt":"2021-05-
13T04:51:25.343Z","__v":0},"_id":"609cb0e50953b5210c752aa8","titulo":"O que é e para que serve o
Node.JS","conteudo":"Node.js é uma tecnologia assíncrona que trabalha em uma única thread de
execução. Por assíncrona entenda que cada requisição ao Node.js não bloqueia o processo do mesmo,
atendendo a um volume absurdamente grande de requisições ao mesmo tempo mesmo sendo single
thread."},"createdAt":"2021-05-13T04:53:57.640Z","updatedAt":"2021-05-
13T04:53:57.640Z","__v":0}}},"page":"/","query":{},"buildId":"development","isFallback":false,"gip":true}<
/script><script nomodule="" src="/_next/static/chunks/polyfills.js?ts=1620946117525"></script><script
src="/_next/static/chunks/webpack.js?ts=1620946117525"></script><script
src="/_next/static/chunks/main.js?ts=1620946117525"></script><script
src="/_next/static/chunks/pages/_app.js?ts=1620946117525"></script><script
src="/_next/static/chunks/pages/index.js?ts=1620946117525"></script><script
src="/_next/static/development/_buildManifest.js?ts=1620946117525"></script><script
src="/_next/static/development/_ssgManifest.js?ts=1620946117525"></script></body></html>
```

Aula 09 - Como integrar o Nextjs com o Bootstrap

- Instalar o reactstrap

<https://reactstrap.github.io/>



Adding Bootstrap

Install reactstrap and Bootstrap from NPM. Reactstrap does not include Bootstrap CSS so this needs to be installed as well:

```
npm install --save bootstrap
npm install --save reactstrap react react-dom
```

`npm install --save bootstrap`

```
C:\celke\react\tutorialnextapi>npm install --save bootstrap
npm WARN bootstrap@5.0.1 requires a peer of @popperjs/core@^2.9.2 but none is installed. You must install peer dependencies yourself.
npm WARN tutorialnextapi@1.0.0 No description
npm WARN tutorialnextapi@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ bootstrap@5.0.1
added 1 package from 2 contributors and audited 272 packages in 11.259s

46 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

npm install --save reactstrap

```
C:\celke\react\tutorialnextapi>npm install --save reactstrap
npm WARN deprecated popper.js@1.16.1: You can find the new Popper v2 at @popperjs/core, this package is dedicated to the legacy v1
npm WARN bootstrap@5.0.1 requires a peer of @popperjs/core@^2.9.2 but none is installed. You must install peer dependencies yourself.
npm WARN tutorialnextapi@1.0.0 No description
npm WARN tutorialnextapi@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ reactstrap@8.9.0
added 12 packages from 209 contributors and audited 284 packages in 11.357s

49 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

Import Bootstrap CSS in the `src/index.js` file:

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

Import required reactstrap components within `src/App.js` file
or your custom component files:

```
import { Button } from 'reactstrap';
```

`pages\index.js`

```
import React from 'react';
import axios from 'axios';
import 'bootstrap/dist/css/bootstrap.min.css';
import { Alert, Container } from 'reactstrap';

const Index = ({dados}) => (
  <div class="mt-3">
    <Container>
      <Alert color="primary"><h1 class="text-center">Artigos</h1></Alert>
      {console.log(dados)}

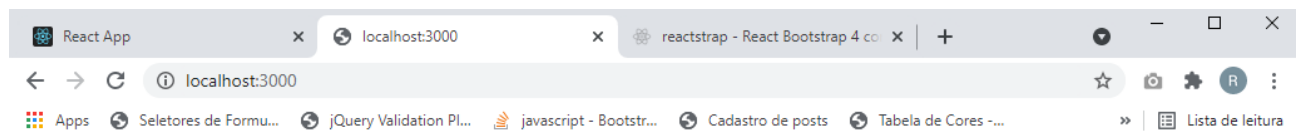
      <ul>
        {dados.map(artigo => (
          <li key={artigo._id}>
            <h2>{artigo.titulo}</h2>
            <p>{artigo.conteudo}</p>
          </li>
        ))}
      </ul>
    </Container>
  </div>
);
```

```
Index.getInitialProps = async () => {
  const response = await axios.get(
    'http://localhost:8080/artigo'
  );

  return {dados: response.data}
}

export default Index;
```

<http://localhost:3000/>



• Como criar API com Node JS

Para criar a API com Node Js é necessário...

• React: o que é e como funciona essa ferramenta?

Como definido por seus criadores, React é “uma biblioteca JavaScript declarativa, eficiente e flexível para a criação de interfaces de usuário (UI)”.

• O que é e para que serve uma API?

API é um conjunto de rotinas e padrões de programação para acesso a um aplicativo de software ou plataforma baseado na Web. Uma API é criada quando uma empresa de software tem a intenção de que outros criadores de software desenvolvam produtos associados ao seu serviço.

• O que é e para que serve o Node.JS

Node.js é uma tecnologia assíncrona que trabalha em uma única thread de execução. Por assíncrona entenda que cada requisição ao Node.js não bloqueia o processo do mesmo, atendendo a um volume absurdamente grande de requisições ao mesmo tempo mesmo sendo single thread.

Aula 10 - Como usar Fontawesome no Nextjs

Instalando o react-fontawesome

<https://fontawesome.com/how-to-use/on-the-web/using-with/react>

Get Started

To get started you'll need to install the following packages into your project using a package manager like [npm](#) and [yarn](#). Here are examples that install everything you need and our solid style of icons using each respective package manager.

```
$ npm i --save @fortawesome/fontawesome-svg-core
npm install --save @fortawesome/free-solid-svg-icons
npm install --save @fortawesome/react-fontawesome
```

`npm i --save @fortawesome/fontawesome-svg-core`

```
C:\celke\react\tutorialnextapi>npm i --save @fortawesome/fontawesome-svg-core

> @fortawesome/fontawesome-common-types@0.2.35 postinstall C:\celke\react\tutorialnextapi\node_modules\@fortawesome\fontaweso
me-common-types
> node attribution.js

Font Awesome Free 0.2.35 by @fortawesome - https://fontawesome.com
License - https://fontawesome.com/license/free (Icons: CC BY 4.0, Fonts: SIL OFL 1.1, Code: MIT License)

> @fortawesome/fontawesome-svg-core@1.2.35 postinstall C:\celke\react\tutorialnextapi\node_modules\@fortawesome\fontaweso
me-svg-core
> node attribution.js

Font Awesome Free 1.2.35 by @fortawesome - https://fontawesome.com
License - https://fontawesome.com/license/free (Icons: CC BY 4.0, Fonts: SIL OFL 1.1, Code: MIT License)

npm WARN bootstrap@5.0.1 requires a peer of @popperjs/core@^2.9.2 but none is installed. You must install peer dependencies y
ourself.
npm WARN tutorialnextapi@1.0.0 No description
npm WARN tutorialnextapi@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (c
urrent: {"os":"win32","arch":"x64"})

+ @fortawesome/fontawesome-svg-core@1.2.35
added 2 packages from 6 contributors and audited 286 packages in 15.585s

49 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

npm install --save @fortawesome/free-solid-svg-icons

```
C:\celke\react\tutorialnextapi>npm install --save @fortawesome/free-solid-svg-icons

> @fortawesome/free-solid-svg-icons@5.15.3 postinstall C:\celke\react\tutorialnextapi\node_modules\@fortawesome\free-solid-svg-icons
> node attribution.js

Font Awesome Free 5.15.3 by @fortawesome - https://fontawesome.com
License - https://fontawesome.com/license/free (Icons: CC BY 4.0, Fonts: SIL OFL 1.1, Code: MIT License)

npm WARN bootstrap@5.0.1 requires a peer of @popperjs/core@^2.9.2 but none is installed. You must install peer dependencies yourself.
npm WARN tutorialnextapi@1.0.0 No description
npm WARN tutorialnextapi@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ @fortawesome/free-solid-svg-icons@5.15.3
added 1 package from 6 contributors and audited 287 packages in 15.7s

49 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

npm install --save @fortawesome/react-fontawesome

```
C:\celke\react\tutorialnextapi>npm install --save @fortawesome/react-fontawesome

npm WARN bootstrap@5.0.1 requires a peer of @popperjs/core@^2.9.2 but none is installed. You must install peer dependencies yourself.
npm WARN tutorialnextapi@1.0.0 No description
npm WARN tutorialnextapi@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ @fortawesome/react-fontawesome@0.1.14
added 1 package from 14 contributors and audited 288 packages in 7.338s

49 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

pages\index.js

```
import React from 'react';
import axios from 'axios';
import 'bootstrap/dist/css/bootstrap.min.css';
import { Alert, Container } from 'reactstrap';
import { library } from '@fortawesome/fontawesome-svg-core';
import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';
import { fas } from '@fortawesome/free-solid-svg-icons';
library.add(fas);
```

```
const Index = ({dados}) => (
  <div class="mt-3">

    <Container>

      <Alert color="primary"><h1 class="text-center">Artigos <FontAwesomeIcon icon="award" /></h1></Alert>

      {console.log(dados)}
```



```

<ul>
  {dados.map(artigo => (
    <li key={artigo._id}>
      <h2>{artigo.titulo}</h2>
      <p>{artigo.conteudo}</p>
    </li>
  ))}
</ul>

</Container>

</div>
);

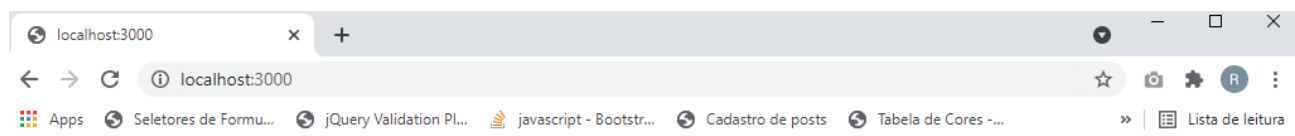
Index.getInitialProps = async () => {
  const response = await axios.get(
    'http://localhost:8080/artigo'
  );

  return {dados: response.data}
}

export default Index;

```

localhost:3000



Artigos

• Como criar API com Node JS

Para criar a API com Node Js é necessário...

• React: o que é e como funciona essa ferramenta?

Como definido por seus criadores, React é "uma biblioteca JavaScript declarativa, eficiente e flexível para a criação de interfaces de usuário (UI)".

• O que é e para que serve uma API?

API é um conjunto de rotinas e padrões de programação para acesso a um aplicativo de software ou plataforma baseado na Web. Uma API é criada quando uma empresa de software tem a intenção de que outros criadores de software desenvolvam produtos associados ao seu serviço.

• O que é e para que serve o Node.JS

Node.js é uma tecnologia assíncrona que trabalha em uma única thread de execução. Por assíncrona entenda que cada requisição ao Node.js não bloqueia o processo do mesmo, atendendo a um volume absurdamente grande de requisições ao mesmo tempo mesmo sendo single thread.