



PlopJS: Creating resources quickly and more productively

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Disclaimer: some resources of this presentation is on pt-br, because it was originally present in pt-br and translated to english



What is PlopJS?

According to the official documentation, it is a "micro-generator framework."

Basically, with it, we can generate code structures from a few commands. These structures can serve as the initial standard for creating a resource.

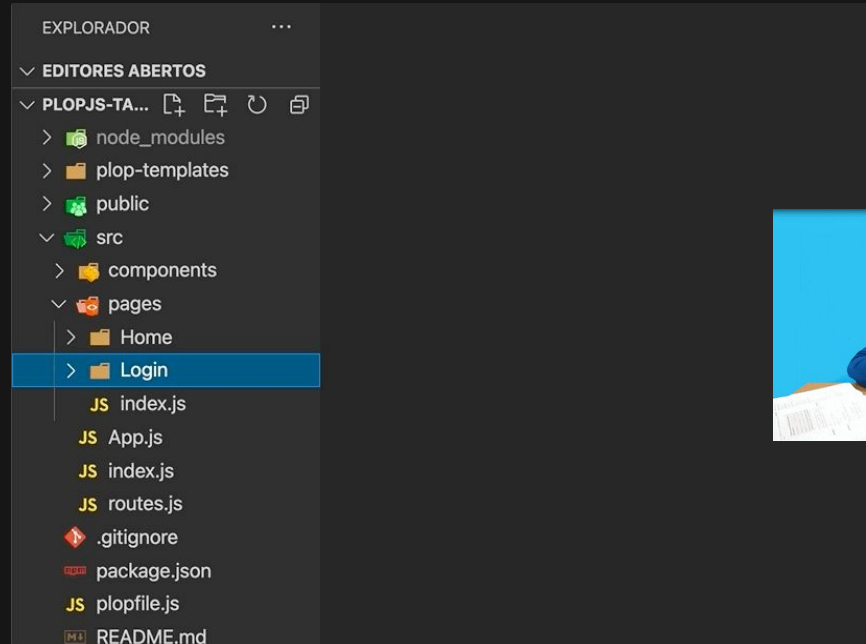
This "resource," in the case of front-end development, could be a component, a page, a context, or literally anything 🤖

Do you like coffee?



What's the problem?

Creating multiple files to set up a component could be waste of time



Solution

> public

✓ src

> components

✓ pages

> Home

JS index.js

JS App.js

JS index.js

JS routes.js

.gitignore

package.json

JS plopfile.js M

README.md

yarn.lock


PROBLEMAS

OUTPUT

CONSOLE DE DEPURAÇÃO

TERMINAL

\$



Installing the plop package



<# Using YARN #>

```
yarn add plop --dev
```

<# Using NPM #>

```
npm install plop --save-dev
```

Starting the plopfile.js (at the root of the project)



```
module.exports = function (plop) {};
```

Creating a script in package.json



```
"scripts": {  
  "start": "react-scripts start",  
  "build": "react-scripts build",  
  "plop": "plop"  
},
```

Setting up a resource generator



```
// edite o arquivo plopfile.js
module.exports = function (plop) {
  // adicione os geradores com o método setGenerator
  plop.setGenerator('page', {
    description: 'Crie uma nova página',
    prompts: [], // array of prompts
    actions: []  // array of actions
  });
};
```


Setting up a resource generator - prompts

name: name of the entered data, it's important because it will be used in the actions and the template.

```
module.exports = function (plop) {
  plop.setGenerator('page', {
    description: 'Crie uma nova página',
    prompts: [
      {
        type: 'input',
        name: 'name',
        message: 'Qual será o nome da sua pagina?',
      },
    ],
    actions: [], // array of actions
  })
}
```

type "input": means you will manually enter the value

Setting up a resource generator - actions

```
module.exports = function (plop) {  
  plop.setGenerator('page', {  
    description: 'Crie uma nova página',  
    prompts: [  
      {  
        type: 'input',  
        name: 'name',  
        message: 'Qual será o nome da sua página?',  
      },  
    ],  
    actions: [  
      {  
        type: 'add',  
        path: 'src/pages/{{pascalCase name}}/index.js',  
        templateFile: 'plop-templates/page/index.hbs',  
      },  
    ],  
  })  
}
```

path: path where the file will be created

pascalCase: case modifiers

templateFile: path to the template file for creating the page.

Setting up a resource generator - templateFile

plop-templates/page/index.hbs



```
import React from "react";

const {{pascalCase name}} = () => {
  return (
    <div>
      <h1>{{pascalCase name}}</h1>
    </div>
  );
};

export default {{pascalCase name}};
```

Result

prompt

PROBLEMS OUTPUT CONSOLE DE DEPURAÇÃO TERMINAL

```
$ yarn plop
yarn run v1.22.10
$ plop
? Qual será o nome da sua pagina? █
```

actions

PROBLEMS OUTPUT CONSOLE DE DEPURAÇÃO TERMINAL

```
$ yarn plop
yarn run v1.22.10
$ plop
? Qual será o nome da sua pagina? Login
✓ ++ /src/pages/Login/index.js
🌟 Done in 3.47s.
$ █
```

```
✓ [src]
  ✓ [pages]
    ✓ [Login]
      JS index.js
```



Creating an "append" type action

```
plopfile.js

actions: [
  {
    type: 'add',
    path: 'src/pages/{{pascalCase name}}/index.js',
    templateFile: 'plop-templates/page/index.hbs',
  },
  {
    type: 'append',
    path: 'src/pages/index.js',
    pattern: `/* PLOP_PAGE_EXPORT */`,
    template: `export { default as {{pascalCase name}} } from "../{{pascalCase name}}",`
  },
]
```

pattern: code snippet where the template will be inserted.

template: code that will be inserted.

Adding pattern in pages/index.js



src/pages/index.js

```
/* PLOP_PAGE_EXPORT */  
export { default as Home } from "../Home";
```

Result

EXPLORADOR

EDITORES ABERTOS

JS index.js src/pages

PLOPJS-TALK

node_modules

plop-templates

public

src

components

pages

Home

Login

JS index.js

JS App.js

JS index.js

JS routes.js

.gitignore

package.json

JS plopfile.js

M

JS index.js

src > pages > JS index.js

You, 19 hours ago | 1 author (You)

1 /* PLOP_PAGE_EXPORT */

2 export { default as Home } from "../Home";

3

PROBLEMAS

OUTPUT

CONSOLE DE DEPURAÇÃO

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Show me the code



Disclaimer

The examples used were for implementation in a React.js project, but it is possible to implement Plop in any scenario within the JavaScript ecosystem.

Useful Links

[Official Documentation](#)

[Case Modifiers](#)

[Project on Github](#)

Contact Me



If you want to talk about Plop or anything else, you can find me on [LinkedIn](#). Feedback is more than welcome! Thank you!



Thanks!