

# Vue.JS desde cero - Aulas 15 a 27

## Bluuweb - Ignacio Gutierrez

<https://www.youtube.com/watch?v=GAQB7Y4X5fM&list=PLPI81lqbj-4J-gfAERGDCdOQtVgRhSvIT>

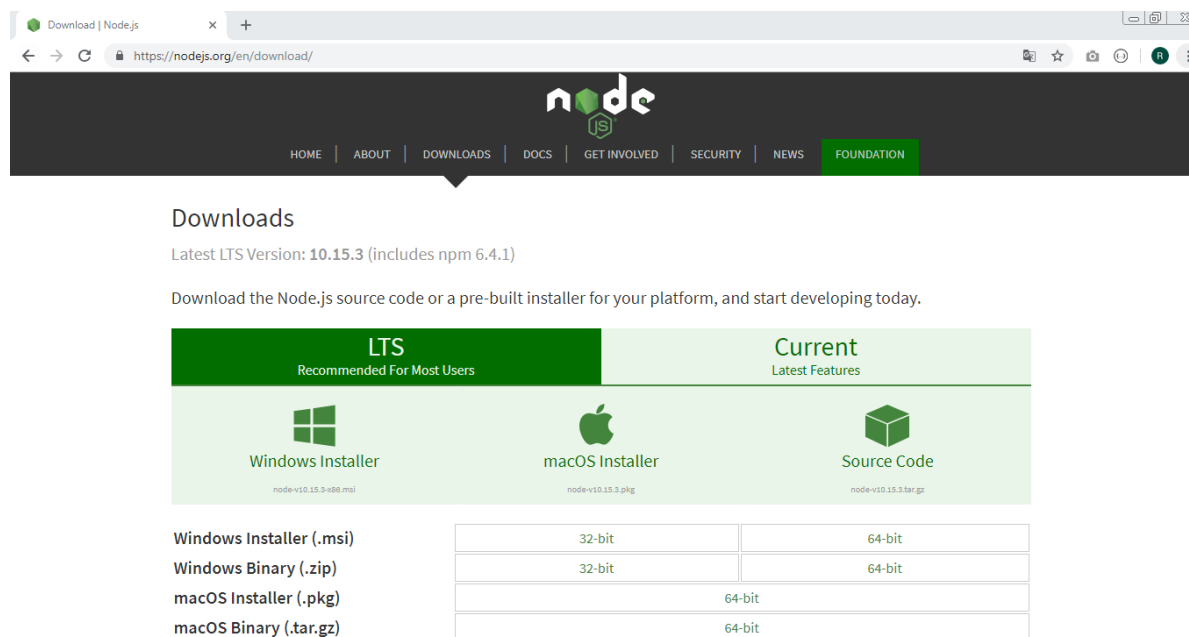
Resumo do curso feito por Roberto Pinheiro

## Aula 15 - Instalação de Vue CLI

### Instalando o Node

Inicialmente baixe e instale Node em seu computador:




<https://nodejs.org/en/download/>



Downloads

Latest LTS Version: 10.15.3 (includes npm 6.4.1)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

| LTS<br>Recommended For Most Users  | Current<br>Latest Features   |   |
|--|--|---|
| <br>Windows Installer<br><small>node-v10.15.3-x86.msi</small> | <br>macOS Installer<br><small>node-v10.15.3.pkg</small> | <br>Source Code<br><small>node-v10.15.3.tar.gz</small> |
| Windows Installer (.msi)   | 32-bit   | 64-bit  |
| Windows Binary (.zip)  | 32-bit   | 64-bit  |
| macOS Installer (.pkg)   | 64-bit   |   |
| macOS Binary (.tar.gz)   | 64-bit   |   |

Para confirmar se a instalação foi corretamente instalada, entre com:

**node -v**

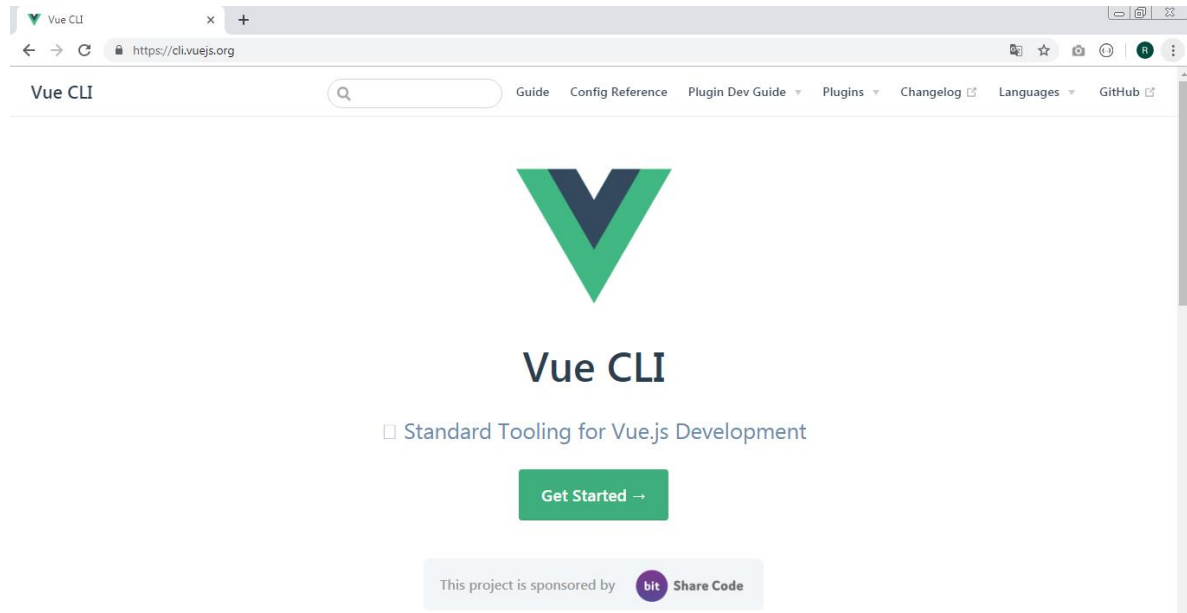
```
Microsoft Windows [versão 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Todos os direitos reservados.

C:\xampp\htdocs\vue>node -v
v10.15.3
```

# Instalando o Vue CLI

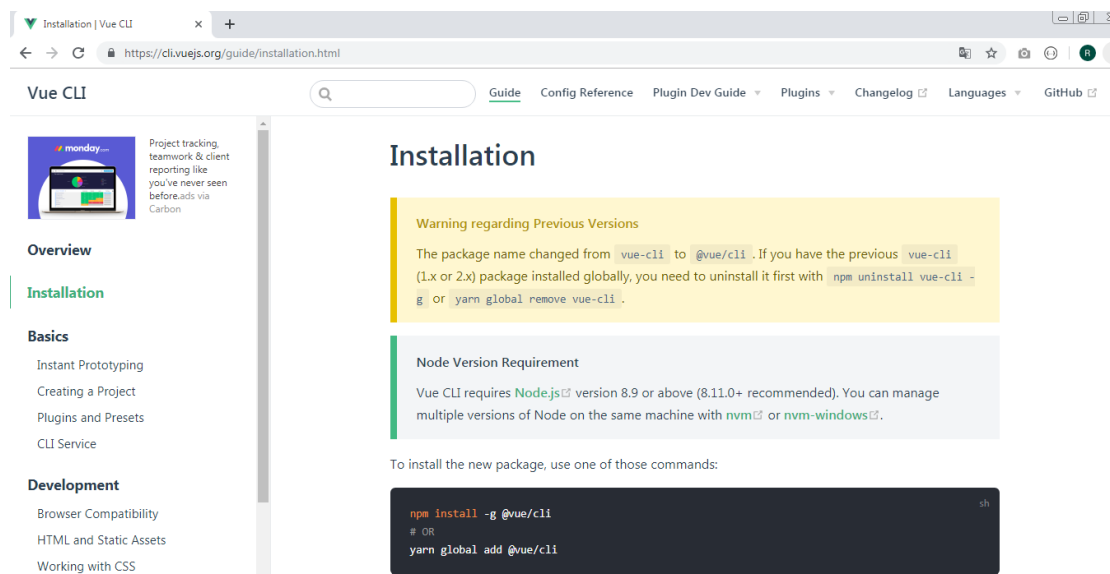
Acesse a página do Vue CLI:

<https://cli.vuejs.org/>



Clique no botão Get Started:

No menu existente na coluna à esquerda, selecione a opção installation:



Entre, em qualquer pasta, com o comando:

**npm install -g @vue/cli**

## Criando um projeto

No terminal do Visual Studio Code entre com o comando:

`vue create projeto-1`

```
Vue CLI v3.1.3
? Please pick a preset: (Use arrow keys)
> default (babel, eslint)
   Manually select features
```

Escolha a instalação manual.

```
? Please pick a preset: Manually select features
? Check the features needed for your project:
  (*) Babel
  ( ) TypeScript
  ( ) Progressive Web App (PWA) Support
  ( ) Router
> (*) Vuex
  ( ) CSS Pre-processors
  (*) Linter / Formatter
  ( ) Unit Testing
  ( ) E2E Testing
```

```
? Please pick a preset: Manually select features
? Check the features needed for your project: Babel, Vuex, Linter
? Pick a linter / formatter config: Basic
? Pick additional lint features: (Press <space> to select, <a> to toggle all, <i> to invert selection)
> (*) Lint on save
  ( ) Lint and fix on commit (requires Git)
```

```
? Please pick a preset: Manually select features
? Check the features needed for your project: Babel, Vuex, Linter
? Pick a linter / formatter config: Basic
? Pick additional lint features: Lint on save
? Where do you prefer placing config for Babel, PostCSS, ESLint, etc.? In dedicated config files
? Save this as a preset for future projects? (y/N) n
```

## Ativando o servidor

Após criar o projeto, na pasta projeto-1, entre com o comando:

**npm run serve**

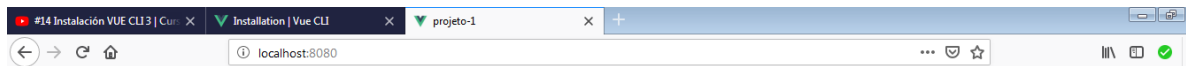
Isso ativará o servidor.

```
App running at:
- Local:   http://localhost:8080/
- Network: http://192.168.0.10:8080/

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

Clique no link:

- Local: <http://localhost:8080>



### Welcome to Your Vue.js App

For a guide and recipes on how to configure / customize this project,  
check out the [vue-cli documentation](#).

#### Installed CLI Plugins

[babel](#) [eslint](#)

#### Essential Links

[Core Docs](#) [Forum](#) [Community Chat](#) [Twitter](#) [News](#)

#### Ecosystem

# Aula 16 - Vue CLI 3 UI

## Criando um projeto com interface gráfica

Ative o servidor:

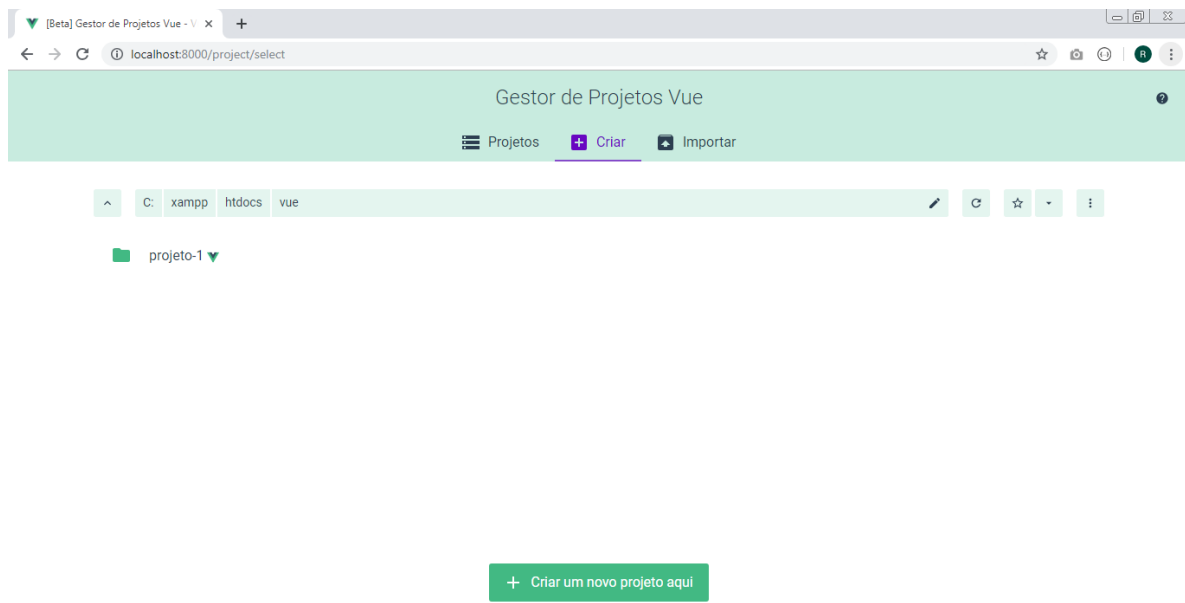
`npm run serve`

No terminal, entre com o comando:

`vue ui`



Clique no botão "Criar":



Clique no botão "Criar um novo projeto aqui"

### Criar um novo projeto

☰ Detalhes

✓ Presets

👤 Funcionalidades

⚙️ Configuração

Pasta do projeto

📁 projeto-2

C:/xampp/htdocs/vue/projeto-2

✎

Gestor de pacotes

npm

▼

Opções adicionais

Sobrescrever a pasta de destino, se existir

☐

Git repository

Inicializar repositório git (recomendado)

☐

✕ Cancelar

Seguinte →

Clique no botão "Seguinte":

### Criar um novo projeto

☰ Detalhes

✓ Presets

👤 Funcionalidades

⚙️ Configuração

• Um preset é um conjunto de plugins e configurações predefinidos. Depois de selecionar as funcionalidades, poderá guardá-las como um preset para que possa usar em projetos futuros, sem ter que configurar tudo de novo.

Selecionar um preset

☐ Preset por defeito  
babel, eslint

☒ Manual  
Selecionar funcionalidades manualmente

☐ Preset remoto  
Obter um preset a partir de um repositório git

Selecione a opção "Manual" e clique no botão "Seguinte".

Ative a funcionalidade "**Babel**" e "**Vuex**". Deixe desativada as demais.

Criar um novo projeto

Detalhes

Presets

Funcionalidades

Configuração

Poderá adicionar funcionalidades após a criação do projeto, instalando plugins.

Ativar funcionalidades

Babel

Transpile modern JavaScript to older versions (for compatibility) [Mais informação](#)

☒

TypeScript

Add support for the TypeScript language [Mais informação](#)

☐

Progressive Web App (PWA) Support

Improve performances with features like Web manifest and Service workers [Mais informação](#)

☐

Router

Structure the app with dynamic pages [Mais informação](#)

☐

Vuex

Manage the app state with a centralized store [Mais informação](#)

☒

CSS Pre-processors

Add support for CSS pre-processors like Sass, Less or Stylus [Mais informação](#)

☐

Linters / Formatters

Check and enforce code quality with ESLint or Prettier [Mais informação](#)

☐


← Anterior

✓ Criar Projeto

Clique no botão "**Criar Projeto**"

Guardar como um novo preset


Nome do preset



Guardar as funcionalidades e configuração como um novo preset

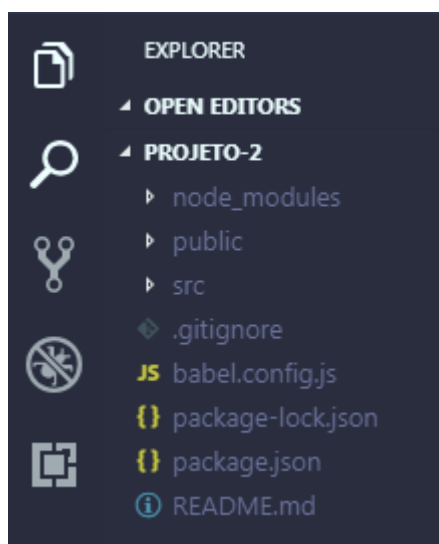
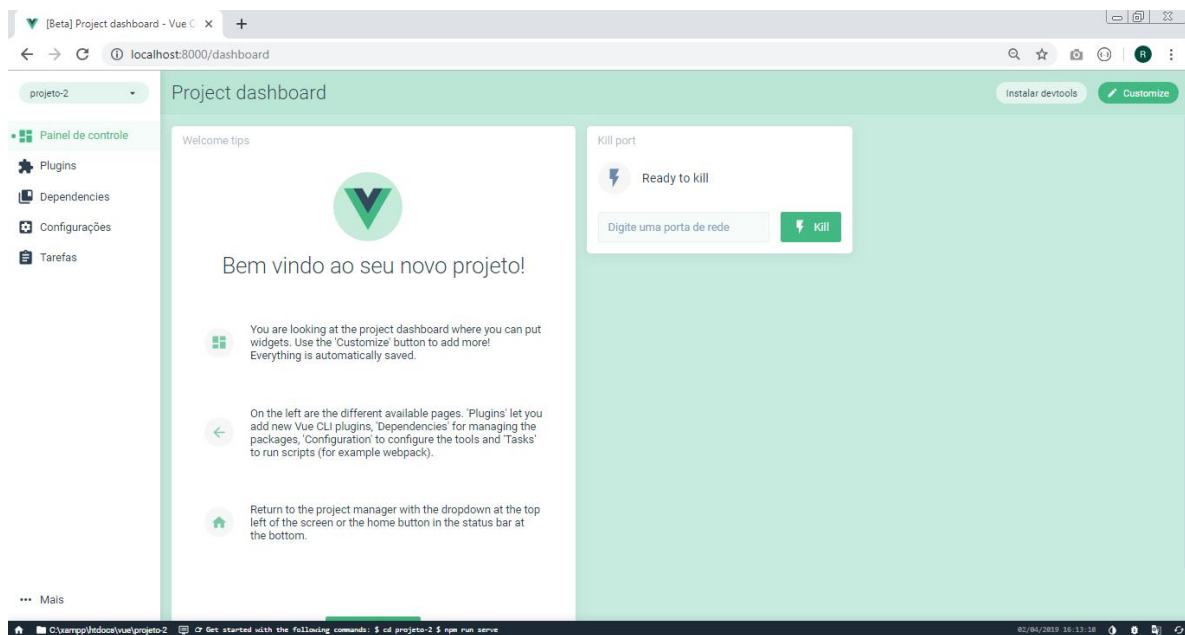
Cancelar

Continuar sem guardar

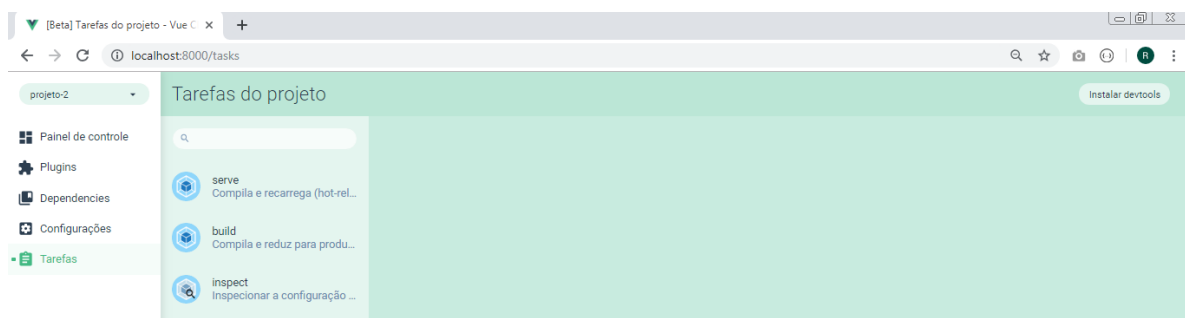


 Criar um novo preset

Sem preencher nada, clique no botão "**Continuar sem guardar**".

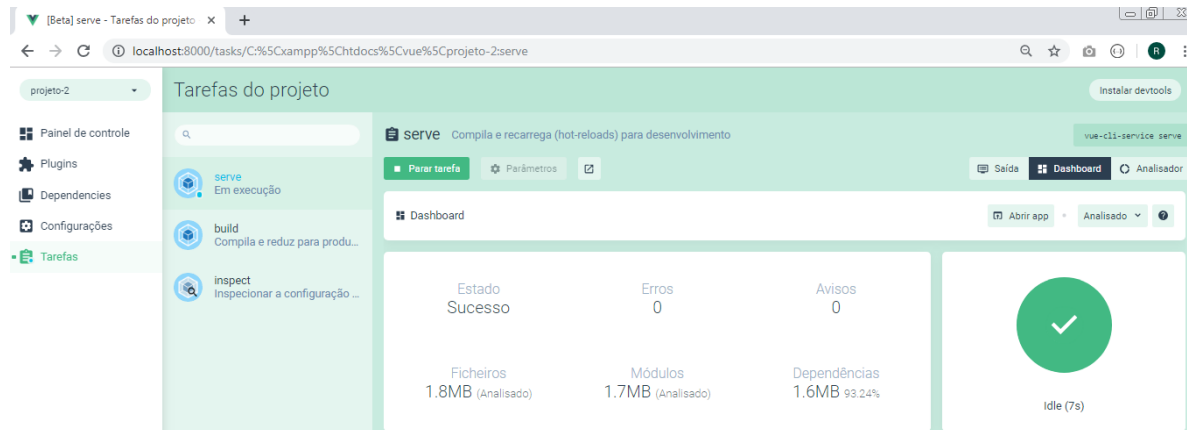


No menu lateral, clique em "Tarefas":

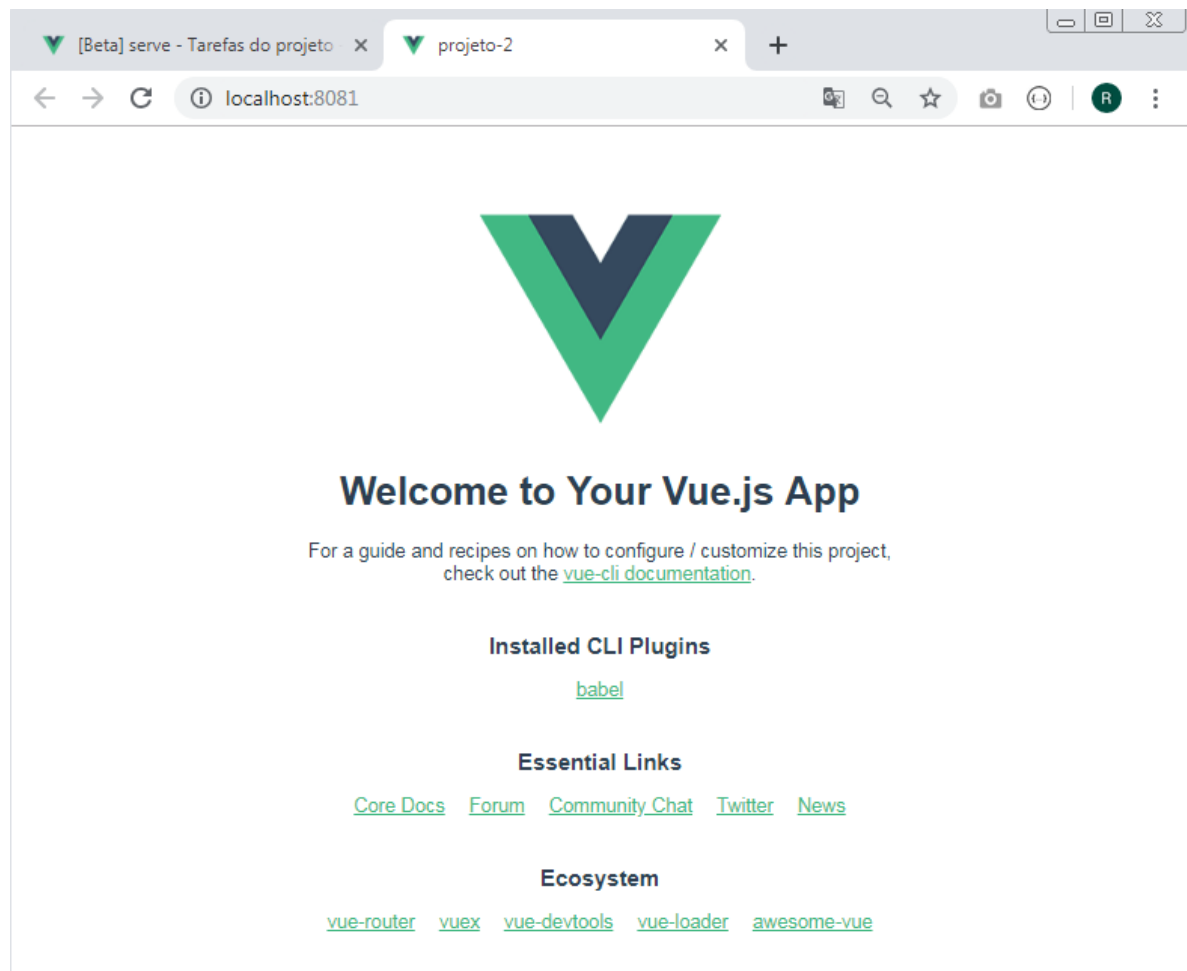




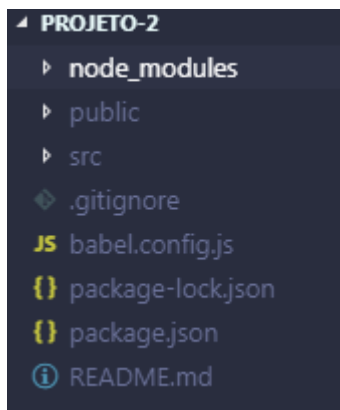
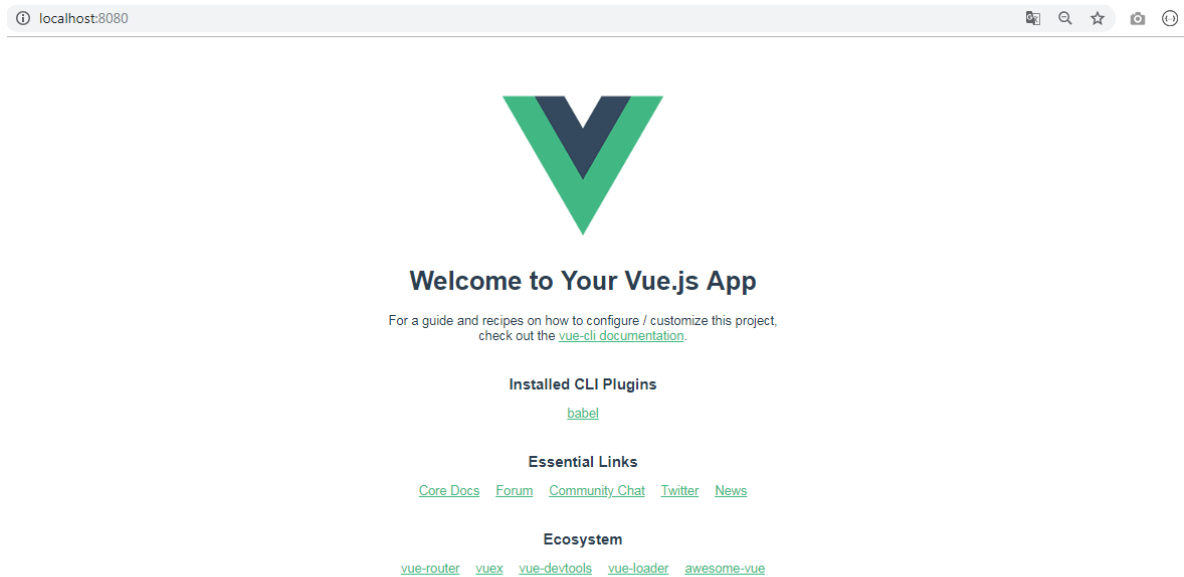
Clique no link "**serve**" e em seguida no botão "**Executar tarefa**"



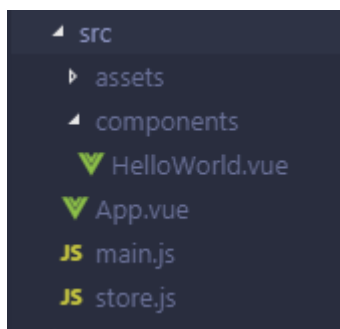
Clique no botão "**abrir app**":



# Aula 17 - Estrutura de Vue CLI - Vista prévia



## Pasta src



## Pasta src/components

### HelloWorld.vue

```
<template>
  <div class="hello">
    <h1>{{ msg }}</h1>
    <p>
      For a guide and recipes on how to configure / customize this project,<br>
      check out the
      <a href="https://cli.vuejs.org" target="_blank" rel="noopener">vue-cli
documentation</a>.
    </p>
    <h3>Installed CLI Plugins</h3>
    <ul>
      <li><a href="https://github.com/vuejs/vue-
cli/tree/dev/packages/%40vue/cli-plugin-babel" target="_blank"
rel="noopener">babel</a></li>
    </ul>
    <h3>Essential Links</h3>
    <ul>
      <li><a href="https://vuejs.org" target="_blank" rel="noopener">Core
Docs</a></li>
      <li><a href="https://forum.vuejs.org" target="_blank"
rel="noopener">Forum</a></li>
      <li><a href="https://chat.vuejs.org" target="_blank"
rel="noopener">Community Chat</a></li>
      <li><a href="https://twitter.com/vuejs" target="_blank"
rel="noopener">Twitter</a></li>
      <li><a href="https://news.vuejs.org" target="_blank"
rel="noopener">News</a></li>
    </ul>
    <h3>Ecosystem</h3>
    <ul>
      <li><a href="https://router.vuejs.org" target="_blank"
rel="noopener">vue-router</a></li>
      <li><a href="https://vuex.vuejs.org" target="_blank"
rel="noopener">vuex</a></li>
      <li><a href="https://github.com/vuejs/vue-devtools#vue-devtools"
target="_blank" rel="noopener">vue-devtools</a></li>
      <li><a href="https://vue-loader.vuejs.org" target="_blank"
rel="noopener">vue-loader</a></li>
      <li><a href="https://github.com/vuejs/awesome-vue" target="_blank"
rel="noopener">awesome-vue</a></li>
    </ul>
  </div>
</template>
```

```

<script>
export default {
  name: 'HelloWorld',
  props: {
    msg: String
  }
}
</script>

<!-- Add "scoped" attribute to limit CSS to this component only -->
<style scoped>
h3 {
  margin: 40px 0 0;
}
ul {
  list-style-type: none;
  padding: 0;
}
li {
  display: inline-block;
  margin: 0 10px;
}
a {
  color: #42b983;
}
</style>

```

- template é o código HTML.
- script é a configuração do componente.
- style scoped é o estilo CSS válido apenas para o componente. Se for apenas style o estilo CSS passa a ser global.

Todo componente deve obrigatoriamente ter um template, script e style são opcionais.

Em script, name é o nome do componente.

Somente arquivos com extensão .vue permitem trabalhar com template, script e style.

## App.vue

```
<template>
  <div id="app">
    
    <HelloWorld msg="Welcome to Your Vue.js App"/>
  </div>
</template>

<script>
import HelloWorld from './components/HelloWorld.vue'

export default {
  name: 'app',
  components: {
    HelloWorld
  }
}
</script>

<style>
#app {
  font-family: 'Avenir', Helvetica, Arial, sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  text-align: center;
  color: #2c3e50;
  margin-top: 60px;
}
</style>
```

É o componente principal (componente pai).

## main.js

```
import Vue from 'vue'
import App from './App.vue'
import store from './store'

Vue.config.productionTip = false

new Vue({
  store,
  render: h => h(App)
}).$mount('#app')
```

Neste arquivo é criada uma instância de Vue. É chamado o arquivo store.js que renderiza a aplicação numa div chamada app (em public/index.html).

## public/index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,initial-scale=1.0">
    <link rel="icon" href="<%= BASE_URL %>favicon.ico">
    <title>projeto-2</title>
  </head>
  <body>
    <noscript>
      <strong>We're sorry but projeto-2 doesn't work properly without
      JavaScript enabled. Please enable it to continue.</strong>
    </noscript>
    <div id="app"></div>
    <!-- built files will be auto injected -->
  </body>
</html>
```

## store.js

```
import Vue from 'vue'
import Vuex from 'vuex'

Vue.use(Vuex)

export default new Vuex.Store({
  state: {
  },
  mutations: {
  },
  actions: {
  }
})
```

O navegador não entende arquivos com a extensão .vue, porisso a necessidade do pacote babel para realizar esse trabalho.

## Aula 18 - Prática Vue CLI e Vuex

No Visual Studio Code, instale as extensões Vetur e Vue 2 Snippets.

### public/index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,initial-scale=1.0">
    <link rel="icon" href="<%= BASE_URL %>favicon.ico">
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
">
    <title>projeto-2</title>
  </head>
  <body>
    <noscript>
      <strong>We're sorry but projeto-2 doesn't work properly without
JavaScript enabled. Please enable it to continue.</strong>
    </noscript>
    <div id="app"></div>
    <!-- built files will be auto injected -->
  </body>
</html>
```

### src/components/Cabecalho.vue

```
<template>
  <div>
    <h1>Frutas</h1>
  </div>
</template>

<script>
  export default {
    nome: 'Cabecalho'
  }
</script>
```

## src/components/Lista.vue

```
<template>
  <div>
    <ul class="list-group">
      <li v-for="(item, index) of arrayOrdenado" :key="item.id"
@click="aumentar(index)"
      class="list-group-item d-flex justify-content-between align-items-
center">
        {{ index }} - {{ item.nome }}
        <span class="badge badge-primary badge-
pill">{{item.quantidade}}</span>
      </li>
    </ul>
    <button class="btn btn-danger btn-block"
@click="reiniciar">Reiniciar</button>
  </div>
</template>

<script>
import {mapState, mapMutations} from 'vuex';
export default {
  nome: "Lista",
  computed: {
    ...mapState(['frutas']),
    arrayOrdenado(){
      return this.frutas.sort( (a, b) => b.quantidade - a.quantidade )
    }
  },
  methods: {
    ...mapMutations(['aumentar','reiniciar'])
  }
};
</script>
```



## src/App.vue

```
<template>
  <div id="app" class="container">
    
    <Cabecalho></Cabecalho>
    <Lista></Lista>
  </div>
</template>

<script>
import Cabecalho from './components/Cabecalho.vue'
import Lista from './components/Lista.vue'

export default {
  name: 'app',
  components: {
    Cabecalho,
    Lista
  }
}
</script>

<style>
#app {
  font-family: 'Avenir', Helvetica, Arial, sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  text-align: center;
  color: #2c3e50;
  margin-top: 60px;
}
</style>
```

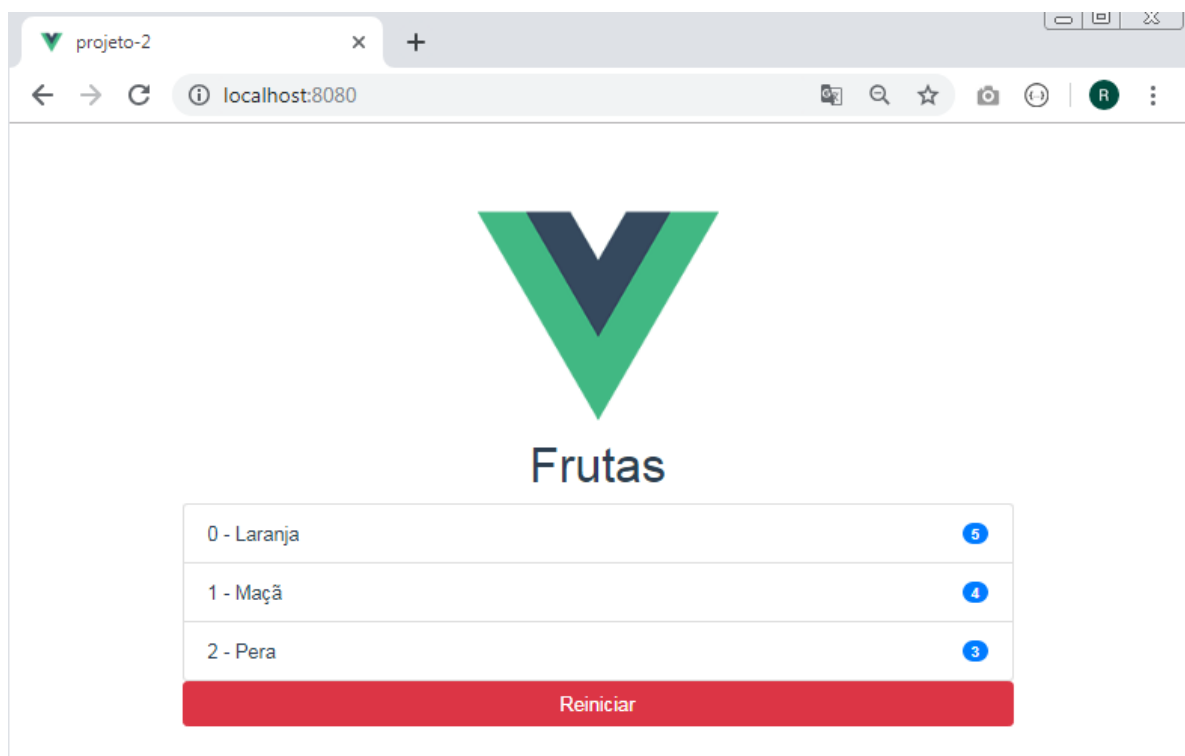
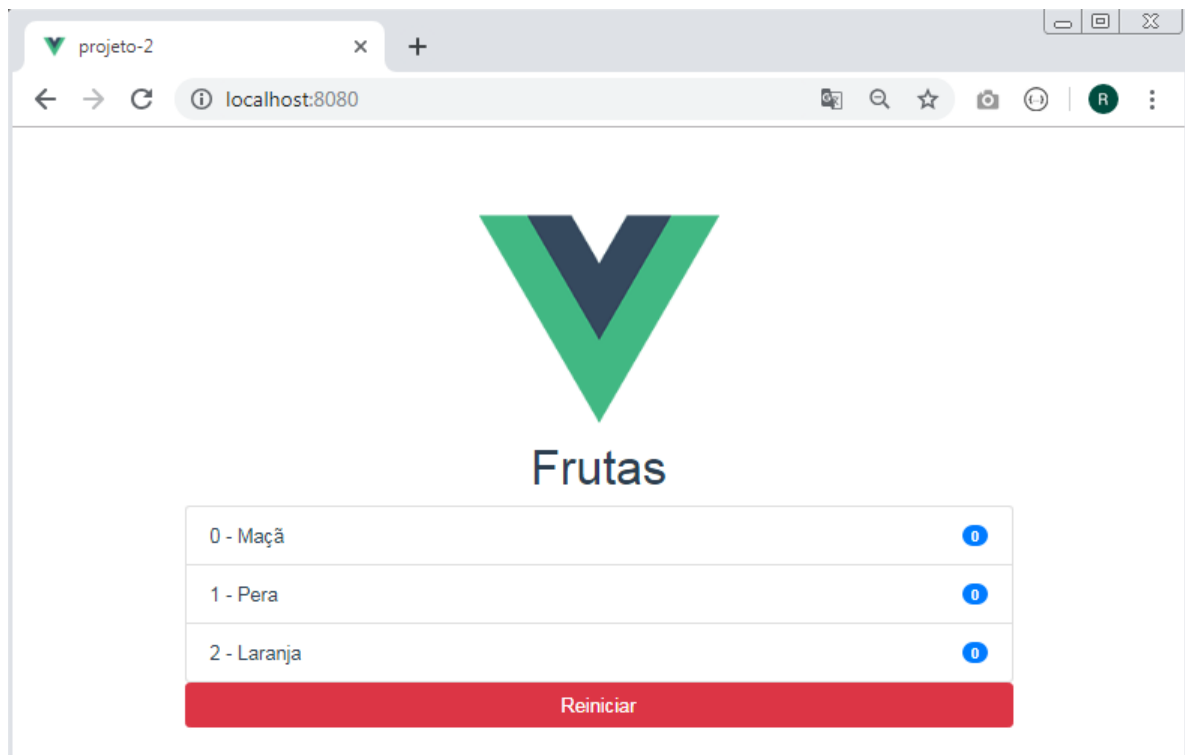
## src/store.js

```
import Vue from 'vue'
import Vuex from 'vuex'

Vue.use(Vuex)

export default new Vuex.Store({
  state: {
    frutas: [
      {nome: 'Maçã', quantidade: 0},
      {nome: 'Pera', quantidade: 0},
      {nome: 'Laranja', quantidade: 0}
    ]
  },
  mutations: {
    aumentar(state, index){
      state.frutas[index].quantidade ++
    },
    reiniciar(state){
      state.frutas.forEach(elemento => {
        elemento.quantidade = 0
      })
    }
  },
  actions: {

  }
})
```

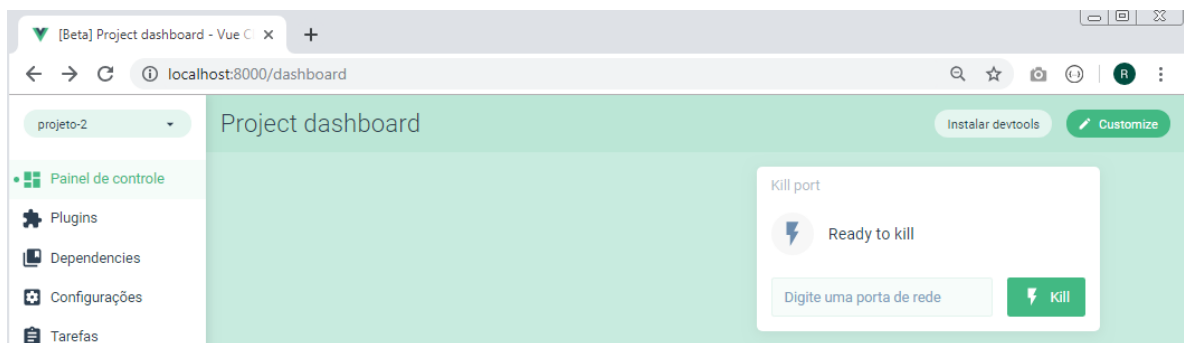


# Aula 19 - Rotas com Vue (router-view)

## Criando um novo projeto usando interface gráfica

No terminal do Visual Studio Code entre com o comando:

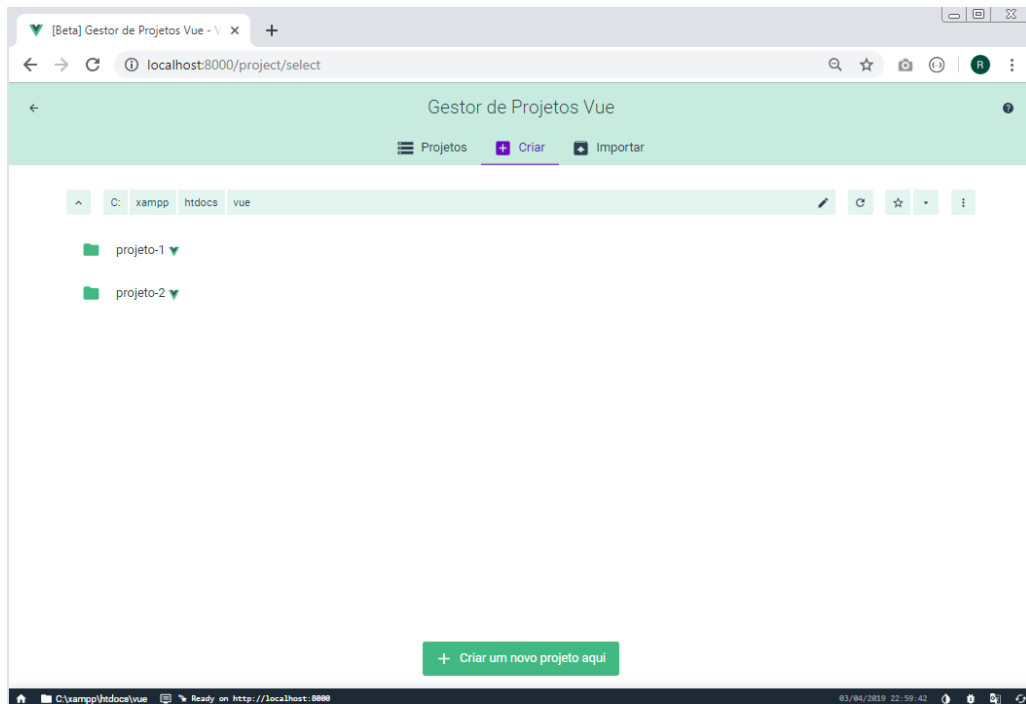
**vue ui**



Na parter superior esquerda, no seletor de projetos, altere de **projetos-2**, para "**Gestor de Projetos Vue**"



Clique em **Criar**, e em seguida na aba que corresponde a pasta dos projetos (**vue**):



- Clique no botão "Criar um novo projeto aqui":
- Como pasta do projeto entre com: **vue-route-1**
- Gerador de pacotes: **npm**
- E desabilite **Git repository**

### Criar um novo projeto

Detalhes

Presets

Funcionalidades

Configuração

Pasta do projeto

vue-route-1

C:/xampp/htdocs/vue/vue-route-1

Gestor de pacotes

npm

Opções adicionais

Sobrescrever a pasta de destino, se existir

☐

Git repository

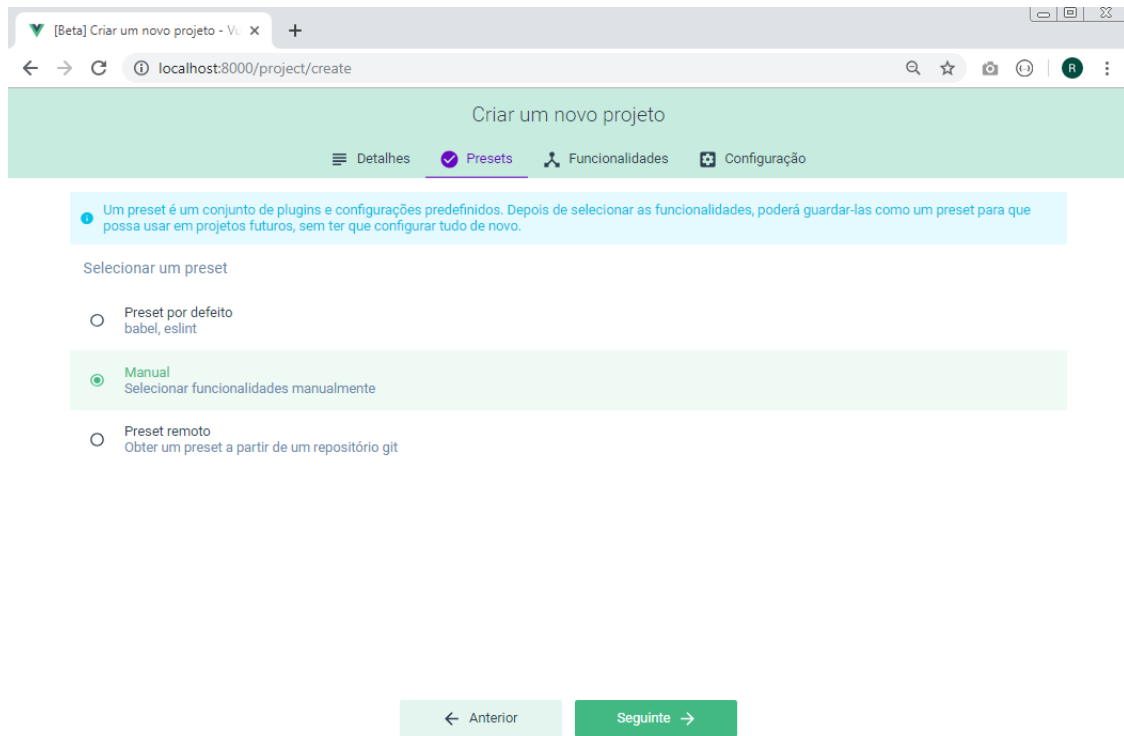
Inicializar repositório git (recomendado)

☐

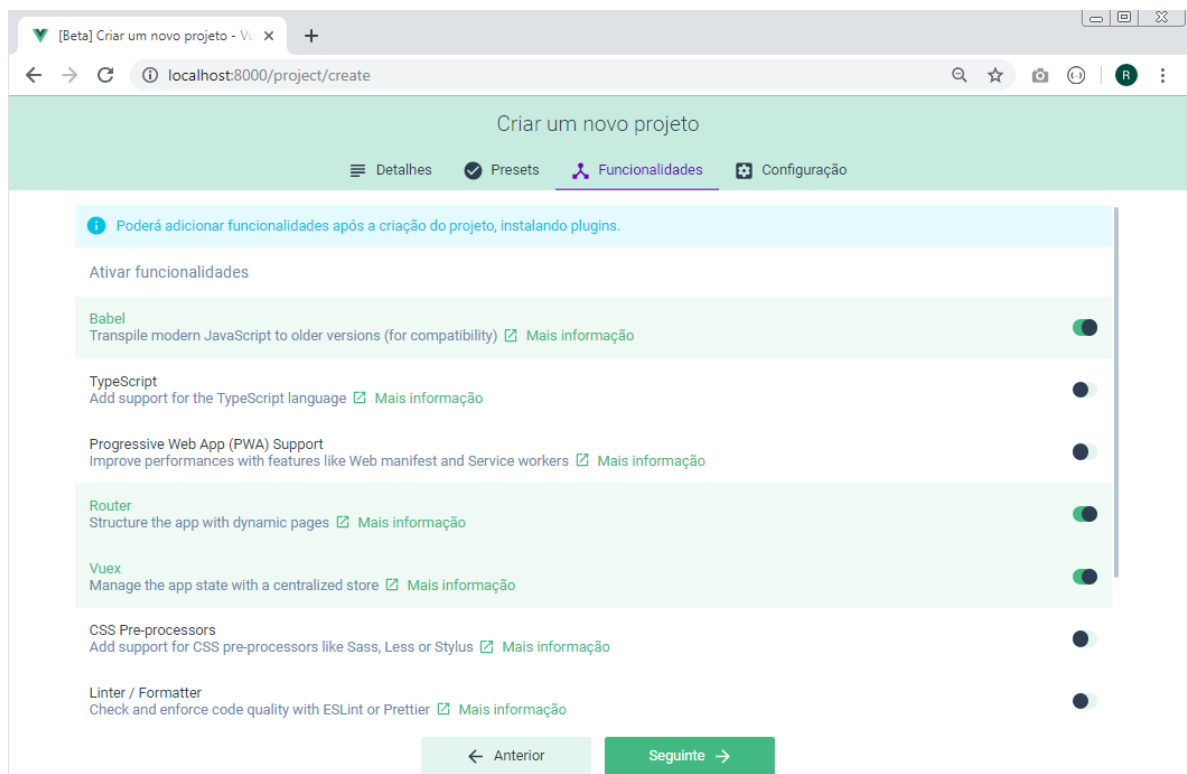
Cancelar

Seguinte →

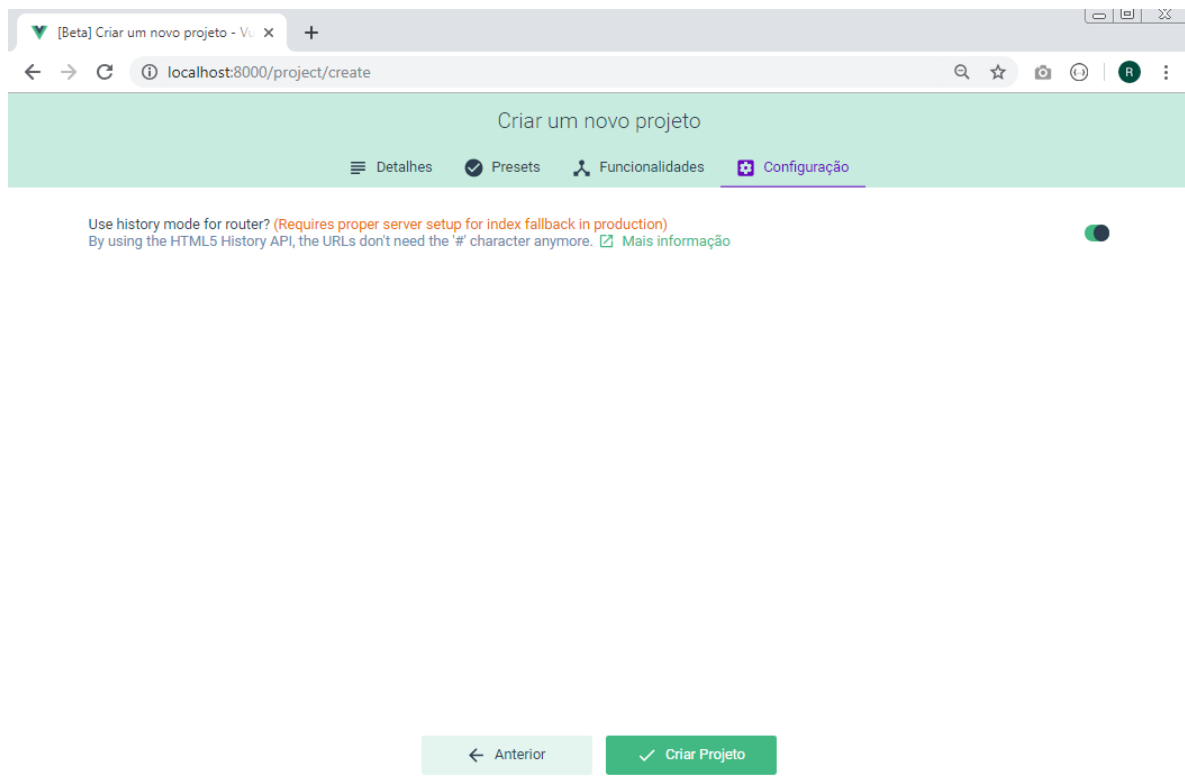
Clique no botão "**Seguinte**"



Selecione a opção "**Manual**" e clique no botão "**Seguinte**"



Deixe habilitado apenas as opções: **Babel**, **Router** e **Vuex** e clique no botão "**Seguinte**".



Habilite "**Use history for route**" e clique no botão "**Criar Projeto**".

Guardar como um novo preset ×

Nome do preset

Guardar as funcionalidades e configuração como um novo preset

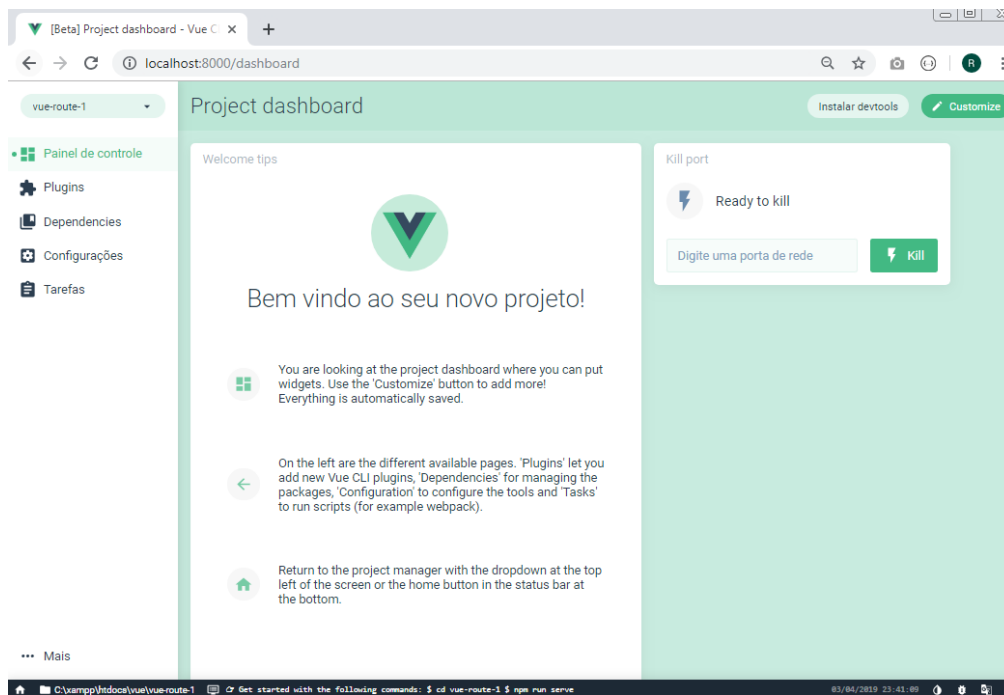
Cancelar Continuar sem guardar Criar um novo preset

Clique no botão "**Continuar sem guardar**"

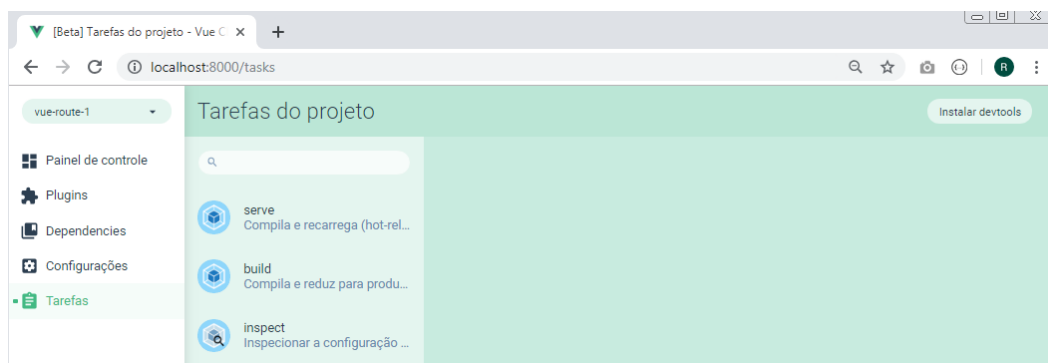
Aguarde a criação do projeto.



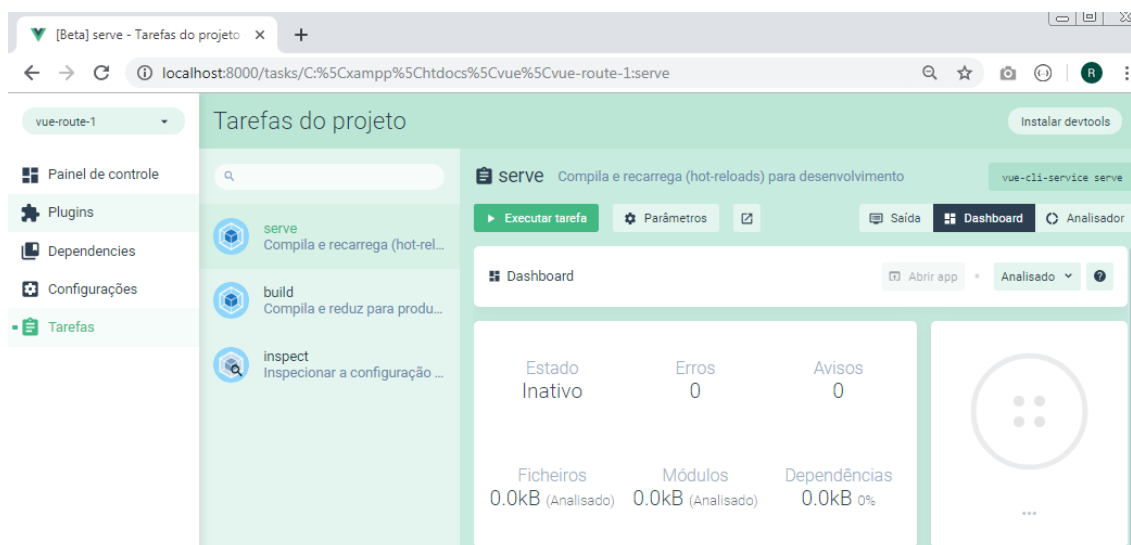
Instalando plugins Vue CLI. Isto poderá demorar um pouco...



Clique no botão "Tarefas".

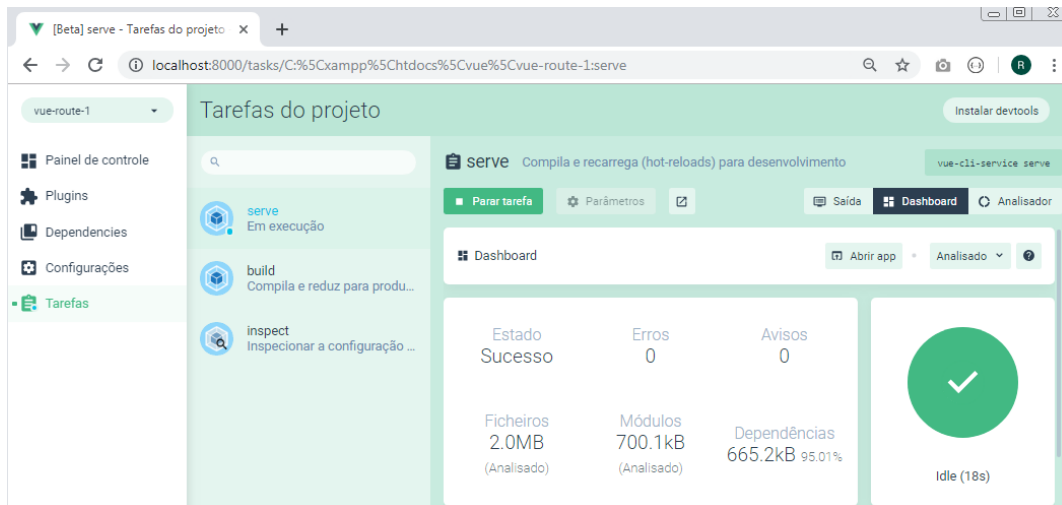


Clique em "serve".

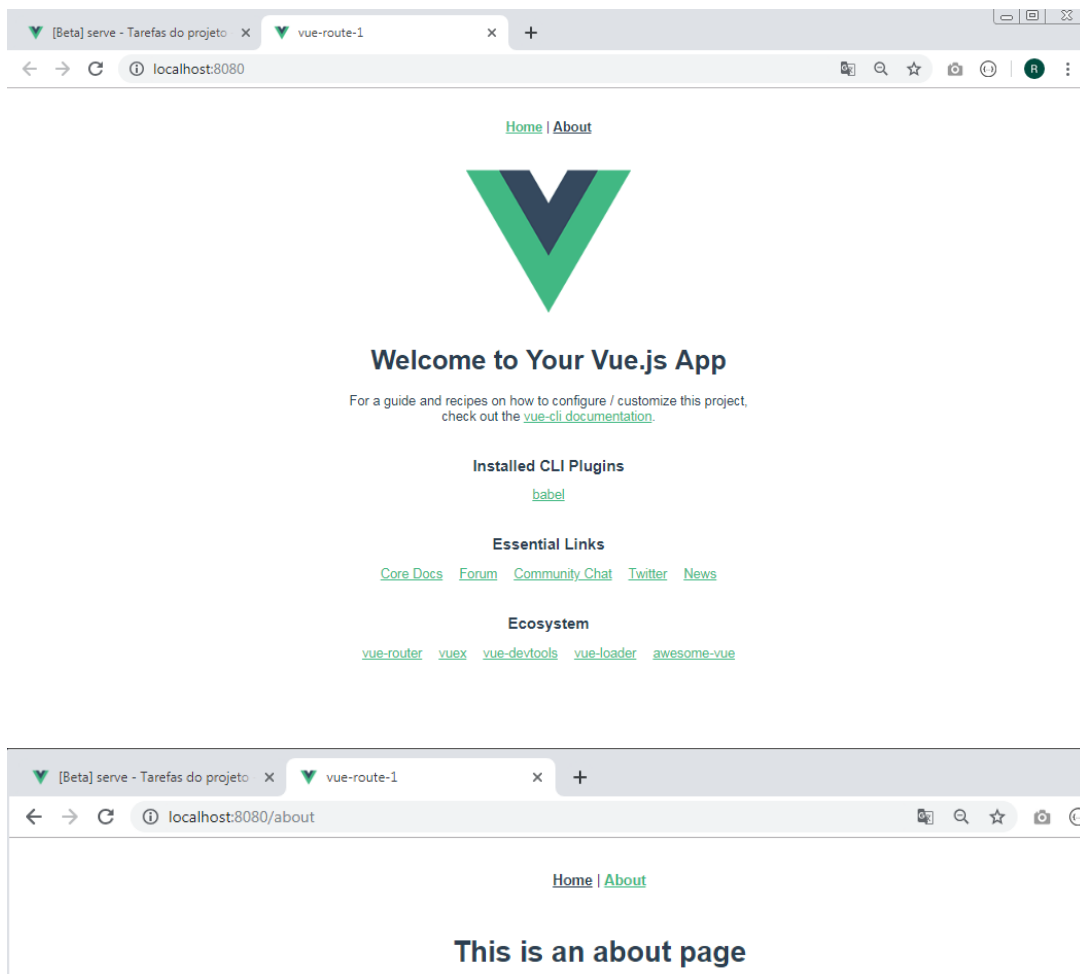




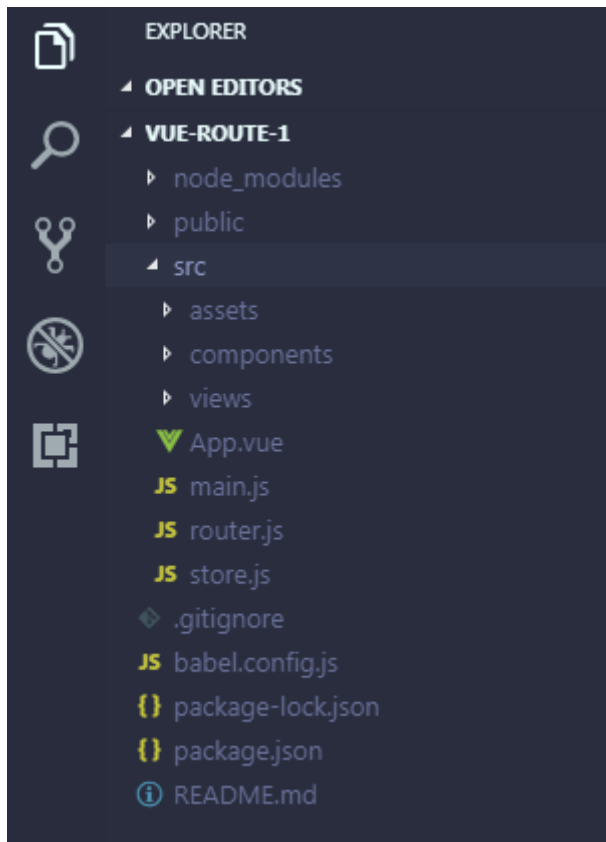
Clique no botão "Executar tarefa"



Finalmente clique no botão "Abrir app"



No Visual Studio Code, abra a pasta correspondente ao projeto criado.



Em relação ao projeto anterior, observe agora a existência de uma nova pasta: **views** e de um novo arquivo: **router.js**

## src/router.js

```
import Vue from 'vue'
import Router from 'vue-router'

Vue.use(Router)

export default new Router({
  mode: 'history',
  base: process.env.BASE_URL,
  routes: [
    {
      path: '/',
      name: 'home',
      component: () => import(/* webpackChunkName: "home" */
'./views/Home.vue')
    },
    {
      path: '/about',
      name: 'about',
      component: () => import(/* webpackChunkName: "about" */
'./views/About.vue')
    },
    {
      path: '/servicos',
      name: 'servicos',
      component: () => import(/* webpackChunkName: "servicos" */
'./views/Servicos.vue')
    }
  ]
})
```

## src/views/About.vue

```
<template>
  <div class="about">
    <h1>This is an about page</h1>
  </div>
</template>
```

## src/views/Servicos.vue

```
<template>
  <div>
    <h1>Página de Serviços</h1>
  </div>
</template>
```

## src/views/Home.vue

```
<template>
  <div class="home">
    
    <HelloWorld msg="Welcome to Your Vue.js App"/>
  </div>
</template>

<script>
// @ is an alias to /src
import HelloWorld from '@components/HelloWorld.vue'

export default {
  name: 'home',
  components: {
    HelloWorld
  }
}
</script>
```

## src/App.vue

```
<template>
  <div id="app">
    <div id="nav">
      <router-link to="/">Home</router-link> |
      <router-link to="/about">About</router-link> |
      <router-link to="/servicos">Serviços</router-link>
    </div>
    <router-view/>
  </div>
</template>

<style>
#app {
  font-family: 'Avenir', Helvetica, Arial, sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  text-align: center;
  color: #2c3e50;
}

#nav {
  padding: 30px;
}

#nav a {
  font-weight: bold;
  color: #2c3e50;
}

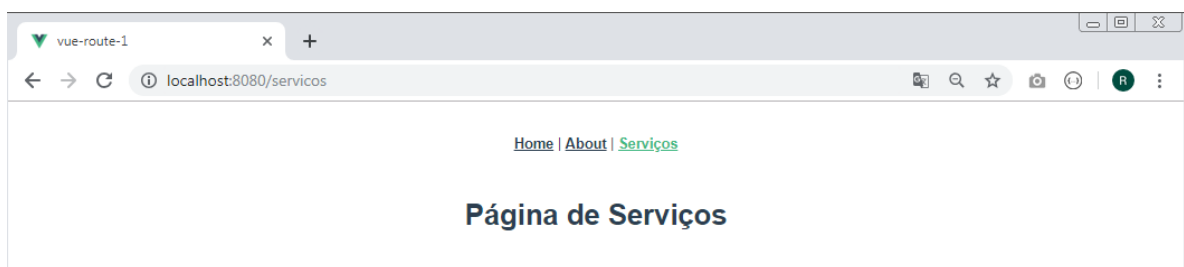
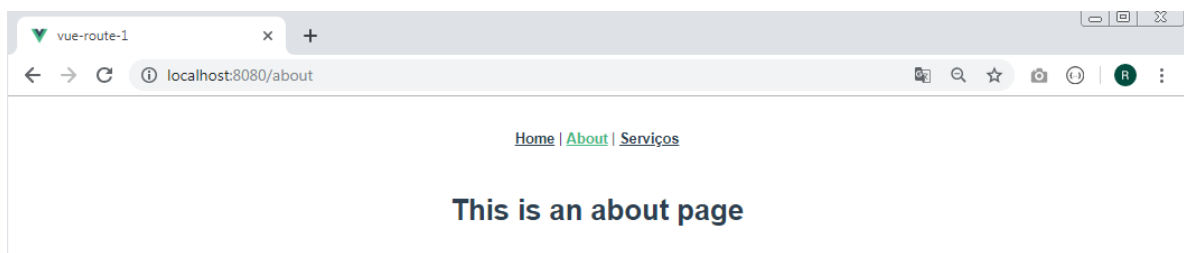
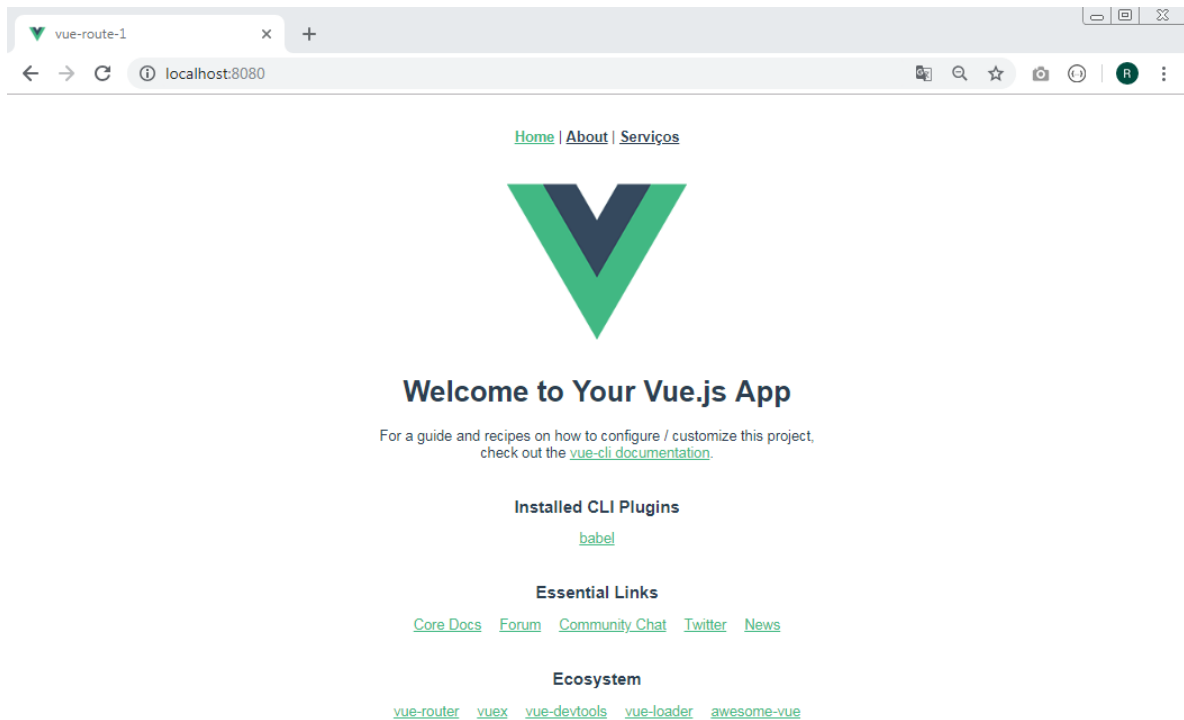
#nav a.router-link-exact-active {
  color: #42b983;
}
</style>
```

## src/components/HelloWorld.vue

```
<template>
  <div class="hello">
    <h1>{{ msg }}</h1>
    <p>
      For a guide and recipes on how to configure / customize this
project,<br>
      check out the
      <a href="https://cli.vuejs.org" target="_blank" rel="noopener">vue-cli
documentation</a>.
    </p>
    <h3>Installed CLI Plugins</h3>
    <ul>
      <li><a href="https://github.com/vuejs/vue-
cli/tree/dev/packages/%40vue/cli-plugin-babel" target="_blank"
rel="noopener">babel</a></li>
    </ul>
    <h3>Essential Links</h3>
    <ul>
      <li><a href="https://vuejs.org" target="_blank" rel="noopener">Core
Docs</a></li>
      <li><a href="https://forum.vuejs.org" target="_blank"
rel="noopener">Forum</a></li>
      <li><a href="https://chat.vuejs.org" target="_blank"
rel="noopener">Community Chat</a></li>
      <li><a href="https://twitter.com/vuejs" target="_blank"
rel="noopener">Twitter</a></li>
      <li><a href="https://news.vuejs.org" target="_blank"
rel="noopener">News</a></li>
    </ul>
    <h3>Ecosystem</h3>
    <ul>
      <li><a href="https://router.vuejs.org" target="_blank"
rel="noopener">vue-router</a></li>
      <li><a href="https://vuex.vuejs.org" target="_blank"
rel="noopener">vuex</a></li>
      <li><a href="https://github.com/vuejs/vue-devtools#vue-devtools"
target="_blank" rel="noopener">vue-devtools</a></li>
      <li><a href="https://vue-loader.vuejs.org" target="_blank"
rel="noopener">vue-loader</a></li>
      <li><a href="https://github.com/vuejs/awesome-vue" target="_blank"
rel="noopener">awesome-vue</a></li>
    </ul>
  </div>
</template>
```

```
<script>
export default {
  name: 'HelloWorld',
  props: {
    msg: String
  }
}
</script>

<!-- Add "scoped" attribute to limit CSS to this component only -->
<style scoped>
h3 {
  margin: 40px 0 0;
}
ul {
  list-style-type: none;
  padding: 0;
}
li {
  display: inline-block;
  margin: 0 10px;
}
a {
  color: #42b983;
}
</style>
```





# Aula 20 - Router Link e Rotas com parâmetros

## Parâmetros dinâmicos

### src/router.js

```
import Vue from 'vue'
import Router from 'vue-router'

Vue.use(Router)

export default new Router({
  mode: 'history',
  base: process.env.BASE_URL,
  routes: [
    {
      path: '/',
      name: 'home',
      component: () => import(/* webpackChunkName: "home" */
'./views/Home.vue')
    },
    {
      path: '/about',
      name: 'about',
      component: () => import(/* webpackChunkName: "about" */
'./views/About.vue')
    },
    {
      path: '/servicos',
      name: 'servicos',
      component: () => import(/* webpackChunkName: "servicos" */
'./views/Servicos.vue')
    },
    {
      path: '/fotos/:id',
      name: 'fotos',
      component: () => import(/* webpackChunkName: "fotos" */
'./views/Fotos.vue')
    }
  ]
})
```

## src/views/Fotos.vue

```
<template>
  <div>
    <h1>Galeria de Fotos</h1>
    <foto />
  </div>
</template>

<script>
  import Foto from "@/components/Fotografia.vue";

  export default {
    components: {
      Foto
    }
  }
</script>
```

## src/components/Fotografia.vue

```
<template>
  <div>
    <h1>Foto a partir do componente: {{ $route.params.id }}</h1>
  </div>
</template>

<script>
  export default {
    nome: 'Foto'
  }
</script>
```

## src/App.vue

```
<template>
  <div id="app">
    <div id="nav">
      <router-link to="/">Home</router-link> |
      <router-link to="/about">About</router-link> |
      <router-link to="/servicos">Serviços</router-link> |
      <router-link to="/fotos">Fotos</router-link>
    </div>
    <router-view/>
  </div>
</template>

<style>
#app {
  font-family: 'Avenir', Helvetica, Arial, sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  text-align: center;
  color: #2c3e50;
}
#nav {
  padding: 30px;
}

#nav a {
  font-weight: bold;
  color: #2c3e50;
}

#nav a.router-link-exact-active {
  color: #42b983;
}
</style>
```



## Aula 21 - Parâmetros dinâmicos e rotas através de eventos

src/views/Fotos.vue

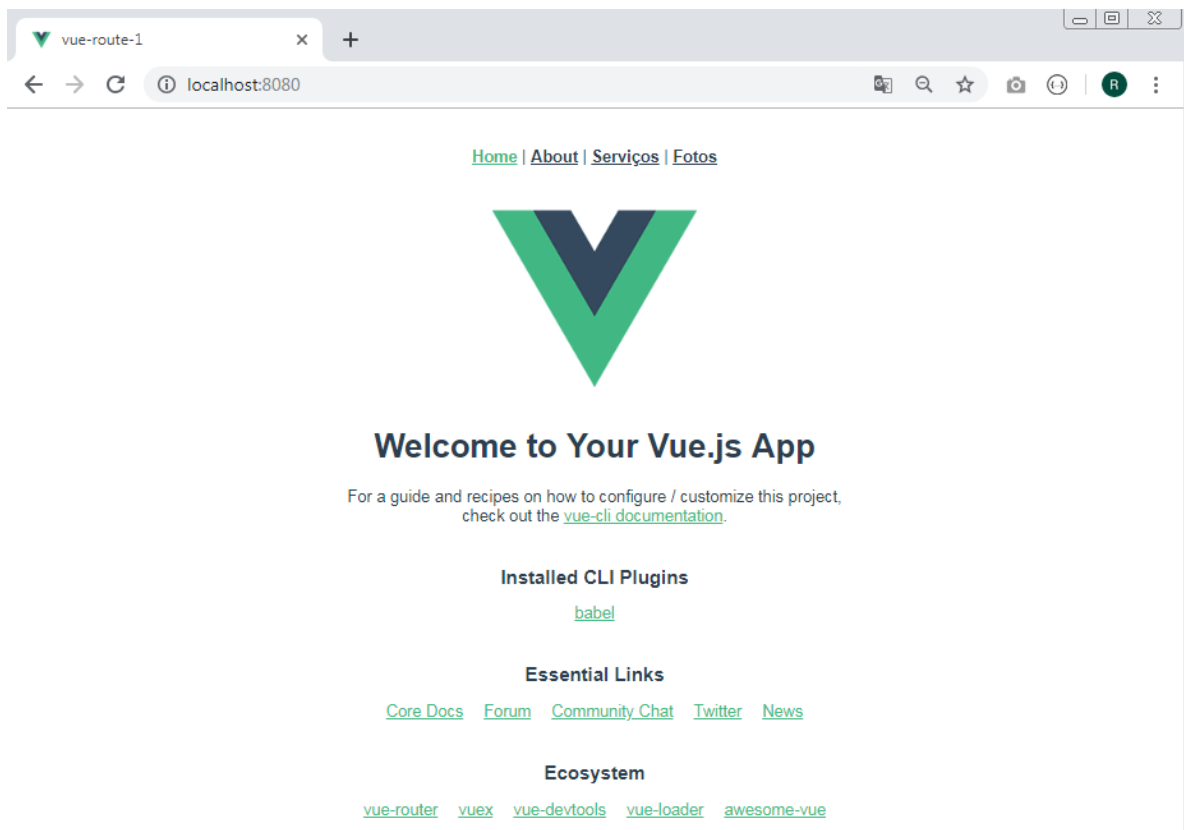
```
<template>
  <div>
    <h1>Galeria de Fotos</h1>
    <router-link :to="{ name: 'fotos', params: {id: item} }"
      v-for="(item, index) of fotosArray" :key = "index">
      <button>foto {{ item }}</button>
    </router-link>
    <foto />
    <button @click="home">Home</button>
    <button @click="anterior">Anterior</button>
    <button @click="seguinte">Seguinte</button>
  </div>
</template>

<script>
  import Foto from "@components/Fotografia.vue";

  export default {
    components: {
      Foto
    },
    data() {
      return {
        fotosArray : [1,2,3]
      }
    },
    methods: {
      home(){
        this.$router.push('/')
      },
      anterior(){
        this.$router.go(-1)
      },
      seguinte(){
        this.$router.go(1)
      }
    }
  }
</script>
```



Clicando no botão "Home":





Clicando no botão "foto 2"



Clicando no botão "foto 3"



Clicando no botão "anterior"



Clicando no botão "anterior"



Clicando no botão "seguinte"



Clicando no botão "seguinte"





Clicando no botão "seguinte"



## Aula 22 - Bootstrap + Vue

Usando vue ui, crie um novo projeto com rotas e nome de "instalando-bootstrap"

### Instalação

`npm i vue bootstrap-vue bootstrap`

Insira no arquivo src/main.js as seguintes linhas:

```
import BootstrapVue from 'bootstrap-vue'
Vue.use(BootstrapVue)

import 'bootstrap/dist/css/bootstrap.css'
import 'bootstrap-vue/dist/bootstrap-vue.css'
```

### src/main.js

```
import Vue from 'vue'
import App from './App.vue'
import router from './router'
import store from './store'

import BootstrapVue from 'bootstrap-vue'
Vue.use(BootstrapVue)

import 'bootstrap/dist/css/bootstrap.css'
import 'bootstrap-vue/dist/bootstrap-vue.css'

Vue.config.productionTip = false

new Vue({
  router,
  store,
  render: h => h(App)
}).$mount('#app')
```

Inicie o servidor:

`npm run serve`

[Home](#) | [About](#)



## Welcome to Your Vue.js App

For a guide and recipes on how to configure / customize this project,  
check out the [vue-cli documentation](#).

### Installed CLI Plugins

[babel](#)

### Essential Links

[Core Docs](#) [Forum](#) [Community Chat](#) [Twitter](#) [News](#)

### Ecosystem

[vue-router](#) [vuex](#) [vue-devtools](#) [vue-loader](#) [awesome-vue](#)

## Aula 23 - Navbar [Class Active]

Acesse a URL:

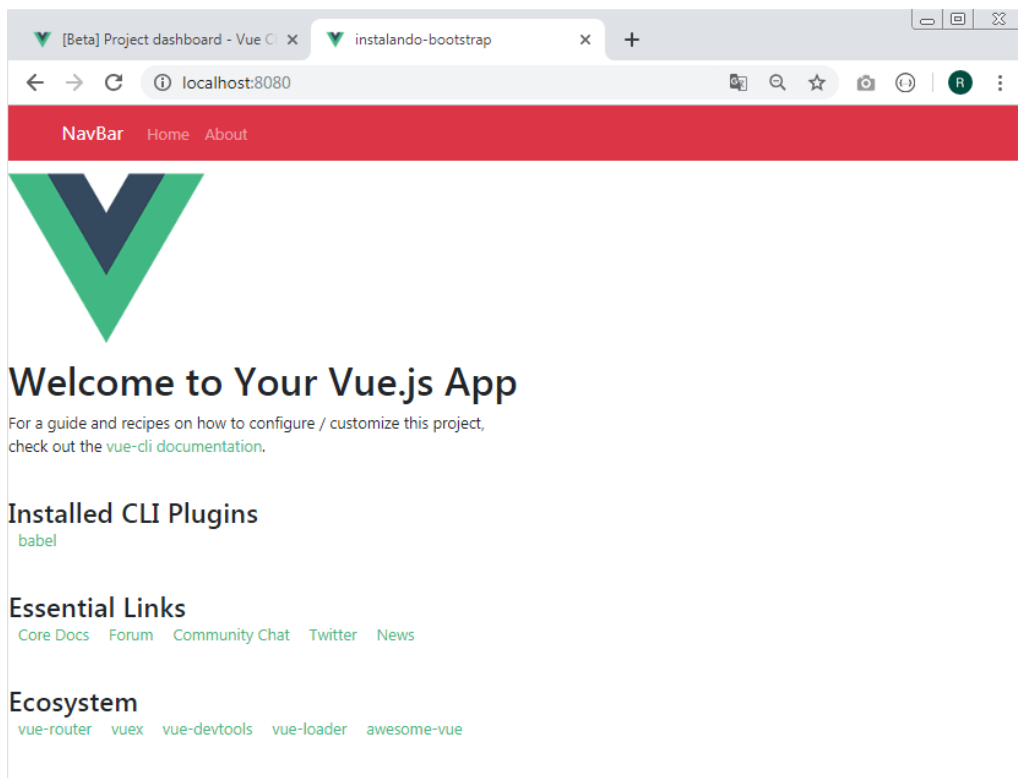
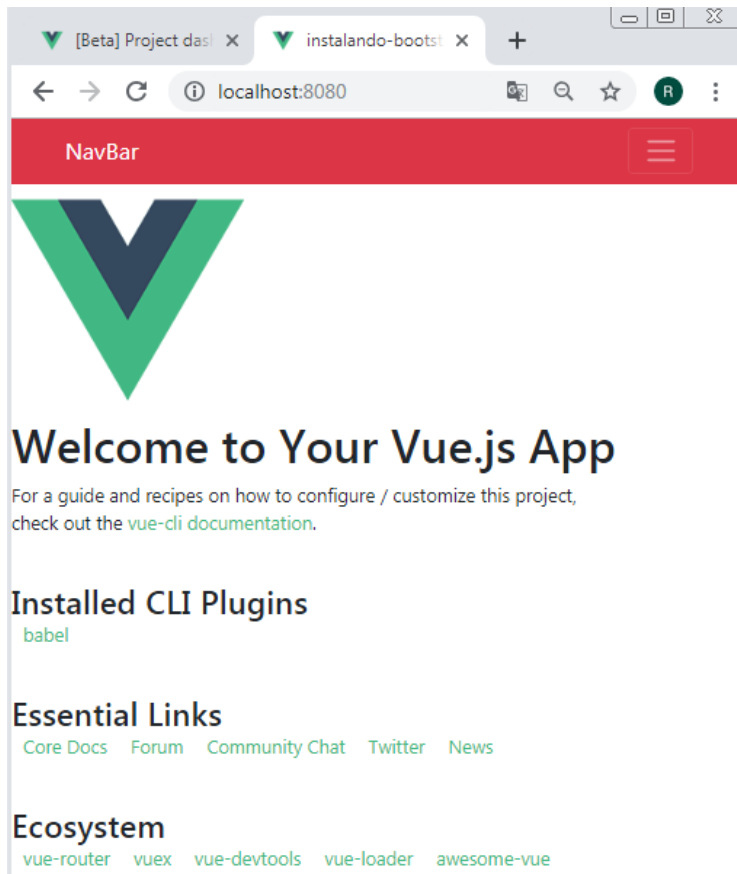
<https://bootstrap-vue.js.org/docs/components/navbar/>

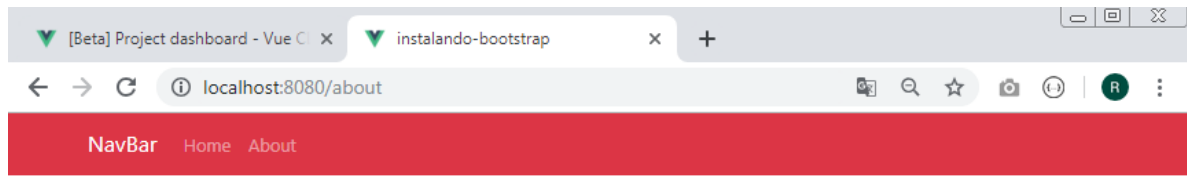
### src/App.vue

```
<template>
  <div id="app">

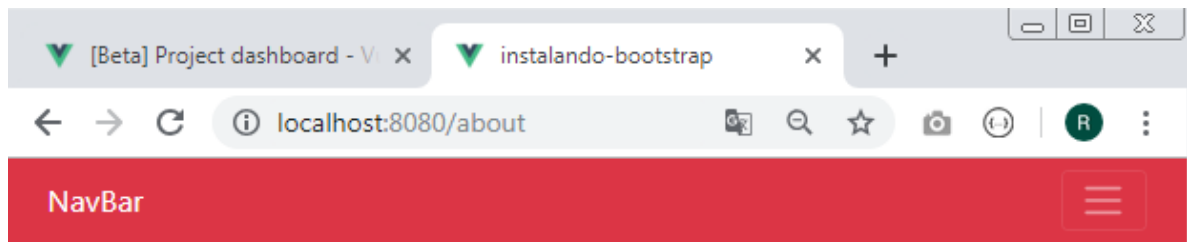
    <b-navbar toggleable="lg" type="dark" variant="danger">
      <b-container>
        <b-navbar-brand href="#">NavBar</b-navbar-brand>
        <b-navbar-toggle target="nav-collapse"></b-navbar-toggle>
        <b-collapse id="nav-collapse" is-nav>
          <b-navbar-nav>
            <b-nav-item :to="{name: 'home'}" exact>Home</b-nav-item>
            <b-nav-item :to="{name: 'about'}">About</b-nav-item>
          </b-navbar-nav>
        </b-collapse>
      </b-container>
    </b-navbar>

    <router-view/>
  </div>
</template>
```





This is an about page



This is an about page

# Aula 24 - Colunas responsivas [Row/Col]

## Layout and grid system

### src/router.js

```
import Vue from 'vue'
import Router from 'vue-router'
import Home from './views/Home.vue'

Vue.use(Router)

export default new Router({
  mode: 'history',
  base: process.env.BASE_URL,
  routes: [
    {
      path: '/',
      name: 'home',
      component: Home
    },
    {
      path: '/about',
      name: 'about',
      component: () => import(/* webpackChunkName: "about" */
'./views/About.vue')
    },
    {
      path: '/grid',
      name: 'grid',
      component: () => import(/* webpackChunkName: "grid" */
'./views/Grid.vue')
    }
  ]
})
```

## src/views/Grid.vue

```
<template>
  <div class="mt-5">
    <b-row>
      <b-col cols="12" md="6" lg="4">
        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit.
Ratione, alias laboriosam eius eveniet delectus quo? Nostrum facere aliquam ut
illum delectus accusantium quo velit ratione corporis. Cum deserunt
repudiandae provident.</p>
      </b-col>
      <b-col cols="12" md="6" lg="8">
        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit.
Ratione, alias laboriosam eius eveniet delectus quo? Nostrum facere aliquam ut
illum delectus accusantium quo velit ratione corporis. Cum deserunt
repudiandae provident.</p>
      </b-col>
      <b-col cols="12" md="6" lg="4">
        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit.
Ratione, alias laboriosam eius eveniet delectus quo? Nostrum facere aliquam ut
illum delectus accusantium quo velit ratione corporis. Cum deserunt
repudiandae provident.</p>
      </b-col>
      <b-col cols="12" md="6" lg="8">
        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit.
Ratione, alias laboriosam eius eveniet delectus quo? Nostrum facere aliquam ut
illum delectus accusantium quo velit ratione corporis. Cum deserunt
repudiandae provident.</p>
      </b-col>
    </b-row>
  </div>
</template>

<script>
  export default {
    name: 'Grid'
  }
</script>
```



## src/App.vue

```
<template>
  <div id="app">

    <b-navbar toggleable="lg" type="dark" variant="danger">
      <b-container>
        <b-navbar-brand href="#">NavBar</b-navbar-brand>
        <b-navbar-toggle target="nav-collapse"></b-navbar-toggle>

        <b-collapse id="nav-collapse" is-nav>

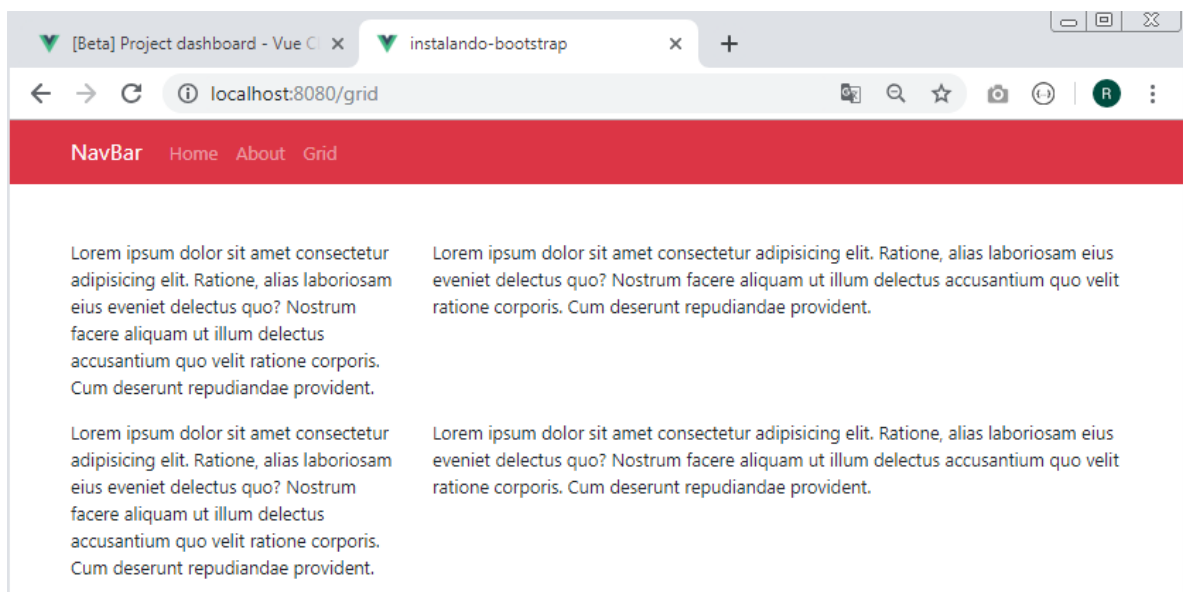
          <b-navbar-nav>
            <b-nav-item :to="{name: 'home'}" exact>Home</b-nav-item>
            <b-nav-item :to="{name: 'about'}">About</b-nav-item>
            <b-nav-item :to="{name: 'grid'}">Grid</b-nav-item>
          </b-navbar-nav>

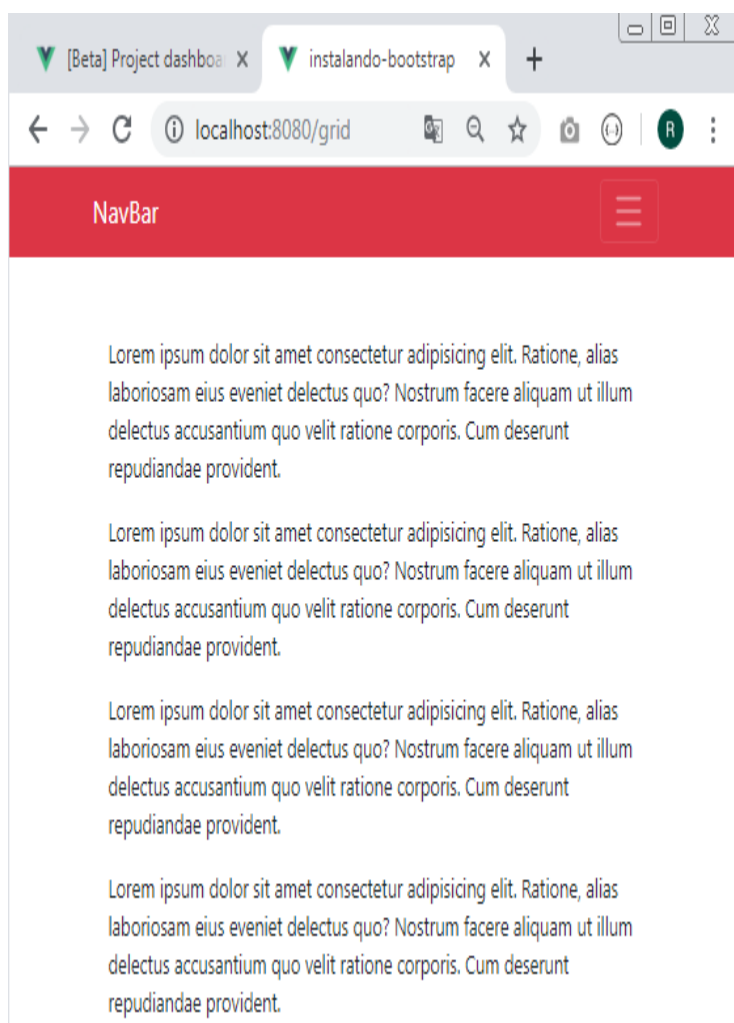
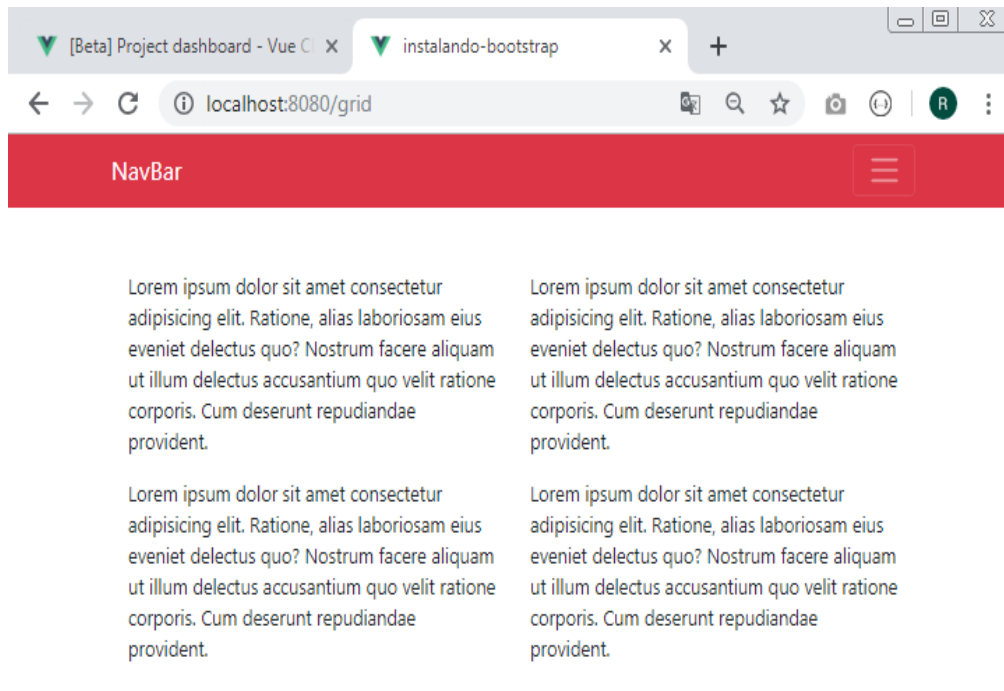
        </b-collapse>

      </b-container>
    </b-navbar>

    <b-container>
      <router-view/>
    </b-container>

  </div>
</template>
```





## Aula 25 - Botões e Cards

### src/router.js

```
import Vue from 'vue'
import Router from 'vue-router'
import Home from './views/Home.vue'

Vue.use(Router)

export default new Router({
  mode: 'history',
  base: process.env.BASE_URL,
  routes: [
    {
      path: '/',
      name: 'home',
      component: Home
    },
    {
      path: '/about',
      name: 'about',
      component: () => import(/* webpackChunkName: "about" */
'./views/About.vue')
    },
    {
      path: '/grid',
      name: 'grid',
      component: () => import(/* webpackChunkName: "grid" */
'./views/Grid.vue')
    },
    {
      path: '/cards',
      name: 'cards',
      component: () => import(/* webpackChunkName: "cards" */
'./views/Cards.vue')
    }
  ]
})
```

## src/views/Cards.vue

```
<template>
  <div class="mt-5">
    <b-button variant="success">Texto</b-button>
    <b-button variant="info">Texto</b-button>
    <b-button variant="danger">Texto</b-button>
    <b-button variant="primary">Texto</b-button>
    <b-button variant="warning">Texto</b-button>
    <b-button variant="dark">Texto</b-button>

    <b-row class="mt-5">
      <b-col cols="12" md="4">
        <b-card img-src="https://picsum.photos/600/300/?image=25"
img-top>
          <p>Lorem ipsum dolor sit amet, consectetur adipisicing
elit. Libero excepturi aspernatur ullam dicta exercitationem suscipit?
Architecto, commodi. Cum minima cumque perferendis incidunt? Cupiditate magni,
vero magnam qui accusamus odio architecto.</p>
          <b-button variant="dark" href="#">Texto</b-button>
        </b-card>
      </b-col>
      <b-col cols="12" md="4">
        <b-card img-src="https://picsum.photos/600/300/?image=25"
img-top>
          <p>Lorem ipsum dolor sit amet, consectetur adipisicing
elit. Libero excepturi aspernatur ullam dicta exercitationem suscipit?
Architecto, commodi. Cum minima cumque perferendis incidunt? Cupiditate magni,
vero magnam qui accusamus odio architecto.</p>
          <b-button variant="dark" href="#">Texto</b-button>
        </b-card>
      </b-col>
      <b-col cols="12" md="4">
        <b-card img-src="https://picsum.photos/600/300/?image=25"
img-top>
          <p>Lorem ipsum dolor sit amet, consectetur adipisicing
elit. Libero excepturi aspernatur ullam dicta exercitationem suscipit?
Architecto, commodi. Cum minima cumque perferendis incidunt? Cupiditate magni,
vero magnam qui accusamus odio architecto.</p>
          <b-button variant="dark" href="#">Texto</b-button>
        </b-card>
      </b-col>
    </b-row>

  </div>
</template>
```

```
<script>
  export default {
    name: 'Cards'
  }
</script>
```

## src/App.vue

```
<template>
  <div id="app">

    <b-navbar toggleable="lg" type="dark" variant="danger">
      <b-container>
        <b-navbar-brand href="#">NavBar</b-navbar-brand>
        <b-navbar-toggle target="nav-collapse"></b-navbar-toggle>

        <b-collapse id="nav-collapse" is-nav>

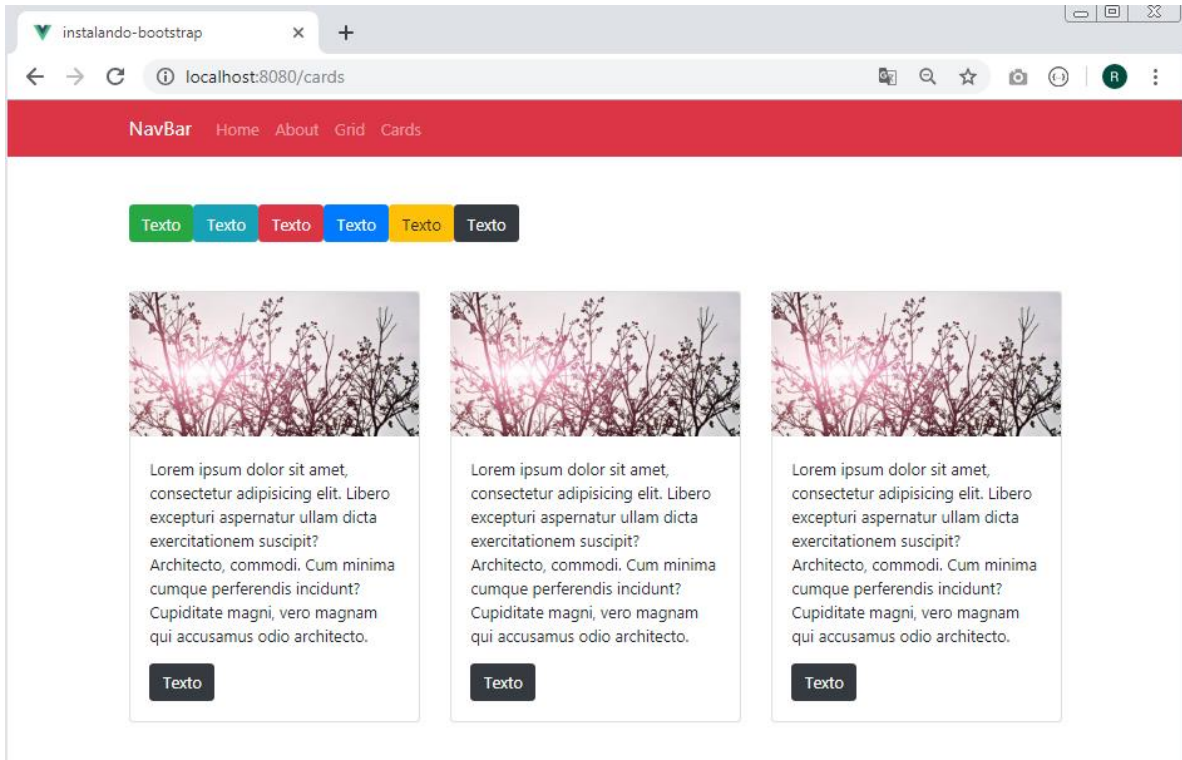
          <b-navbar-nav>
            <b-nav-item :to="{name: 'home'}" exact>Home</b-nav-item>
            <b-nav-item :to="{name: 'about'}">About</b-nav-item>
            <b-nav-item :to="{name: 'grid'}">Grid</b-nav-item>
            <b-nav-item :to="{name: 'cards'}">Cards</b-nav-item>
          </b-navbar-nav>

        </b-collapse>

      </b-container>
    </b-navbar>

    <b-container>
      <router-view/>
    </b-container>

  </div>
</template>
```



Texto

Texto

Texto

Texto

Texto

Texto



Lorem ipsum dolor sit amet, consectetur adipisicing elit. Libero excepturi aspernatur ullam dicta exercitationem suscipit? Architecto, commodi. Cum minima cumque perferendis incidunt? Cupiditate magni, vero magnam qui accusamus odio architecto.

Texto



Lorem ipsum dolor sit amet, consectetur adipisicing elit. Libero excepturi aspernatur ullam dicta exercitationem suscipit? Architecto, commodi. Cum minima cumque perferendis incidunt? Cupiditate magni, vero magnam qui accusamus odio architecto.

Texto



Lorem ipsum dolor sit amet, consectetur adipisicing elit. Libero excepturi aspernatur ullam dicta exercitationem suscipit? Architecto, commodi. Cum minima cumque perferendis incidunt? Cupiditate magni, vero magnam qui accusamus odio architecto.

Texto

## Aula 26 - Formulário INPUT com Bootstrap + Vue

### src/router.js

```
import Vue from 'vue'
import Router from 'vue-router'
import Home from './views/Home.vue'

Vue.use(Router)

export default new Router({
  mode: 'history',
  base: process.env.BASE_URL,
  routes: [
    {
      path: '/',
      name: 'home',
      component: Home
    },
    {
      path: '/about',
      name: 'about',
      component: () => import(/* webpackChunkName: "about" */
'./views/About.vue')
    },
    {
      path: '/grid',
      name: 'grid',
      component: () => import(/* webpackChunkName: "grid" */
'./views/Grid.vue')
    },
    {
      path: '/cards',
      name: 'cards',
      component: () => import(/* webpackChunkName: "cards" */
'./views/Cards.vue')
    },
    {
      path: '/form',
      name: 'form',
      component: () => import(/* webpackChunkName: "form" */
'./views/Form.vue')
    }
  ]
})
```



## src/App.vue

```
<template>
  <div id="app">

    <b-navbar toggleable="lg" type="dark" variant="danger">
      <b-container>
        <b-navbar-brand href="#">NavBar</b-navbar-brand>
        <b-navbar-toggle target="nav-collapse"></b-navbar-toggle>

        <b-collapse id="nav-collapse" is-nav>

          <b-navbar-nav>
            <b-nav-item :to="{name: 'home'}" exact>Home</b-nav-item>
            <b-nav-item :to="{name: 'about'}">About</b-nav-item>
            <b-nav-item :to="{name: 'grid'}">Grid</b-nav-item>
            <b-nav-item :to="{name: 'cards'}">Cards</b-nav-item>
            <b-nav-item :to="{name: 'form'}">Form</b-nav-item>
          </b-navbar-nav>

        </b-collapse>

      </b-container>
    </b-navbar>

    <b-container>
      <router-view/>
    </b-container>

  </div>
</template>
```

## src/views/Form.vue

```
<template>
  <div class="mt-5">
    <h1>Formulários</h1>
    <form>
      <b-row>
        <b-col md="6">
          <b-form-input type="text" v-model="texto"
:state="comprovar"></b-form-input>
          <small>Mínimo: 3 caracteres</small>
        </b-col>
      </b-row>
      <p>Texto: {{ texto }}</p>
    </form>

  </div>
</template>

<script>
  export default {
    name: 'Form',
    data(){
      return {
        texto: ''
      }
    },
    computed: {
      comprobar(){
        return this.texto.length > 2 ? true : false
      }
    }
  }
</script>
```

## Input type

|                |   |
|----------------|---|
| Type text:     | <input type="text"/>                        |
| Type password: | <input type="password"/>                    |
| Type email:    | <input type="email"/>                       |
| Type number:   | <input type="number"/>                      |
| Type url:      | <input type="url"/>                         |
| Type tel:      | <input type="tel"/>                         |
| Type date:     | <input type="text" value="dd / mm / aaaa"/> |
| Type time:     | <input type="text" value="--:--"/>          |
| Type range:    | <input type="range"/>                       |
| Type color:    | <input type="color"/>                       |

instalando-bootstrap x +

localhost:8080/form

NavBar Home About Grid Cards Form

## Formulários

ab x

Mínimo: 3 caracteres  
Texto: ab

instalando-bootstrap x +

localhost:8080/form

NavBar Home About Grid Cards Form

## Formulários

abc ✓

Mínimo: 3 caracteres  
Texto: abc

## Aula 27 - Formulário Select e RadioButton

src/views/Form.vue

```
<template>
  <div class="mt-5">
    <h1>Formulários</h1>
    <form>
      <b-row>
        <b-col md="3">
          <b-form-input type="text" v-model="texto"
:state="comprovar"></b-form-input>
          <small>Mínimo: 3 caracteres</small>
        </b-col>
        <b-col md="3">
          <b-form-select v-model="select" :options="animais"></b-
form-select>
          <p>Seleção: {{ select }}</p>
        </b-col>
        <b-col md="3">
          <b-form-radio-group v-model="radio"
:options="animaisRadio"></b-form-radio-group>
          <p>Radio: {{ radio }}</p>
        </b-col>
        <b-col md="3">
          <b-form-checkbox-group v-model="check"
:options="animaisRadio"></b-form-checkbox-group>
          <p>Múltiplo: {{ check }}</p>
        </b-col>
      </b-row>
      <p>Texto: {{ texto }}</p>
    </form>
  </div>
</template>
```

```

<script>
  export default {
    name: 'Form',
    data(){
      return {
        texto: '',
        check: [],
        radio: null,
        select: null,
        animais: [
          {value: null, text: 'Selecione um animal'},
          {value: 'cachorro', text: 'au, au'},
          {value: 'gato', text: 'miau, miau'},
          {value: 'pato', text: 'quack, quack'}
        ],
        animaisRadio: [
          {value: 'cachorro', text: 'au, au'},
          {value: 'gato', text: 'miau, miau'},
          {value: 'pato', text: 'quack, quack'}
        ]
      }
    },
    computed: {
      comprovar(){
        return this.texto.length > 2 ? true : false
      },
      animais(){
      }
    }
  }
}
</script>

```

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localhost:8080/form

NavBar Home About Grid Cards Form

## Formulários

x

Mínimo: 3 caracteres

Selecione um animal ▾

Seleção:

☐ au, au   ☐ miau, miau  
☐ quack, quack

Radio:

☐ au, au   ☐ miau, miau  
☐ quack, quack

Múltiplo: []

Texto:

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localhost:8080/form

NavBarHomeAboutGridCardsForm

# Formulários

✖

Mínimo: 3 caracteres

miau, miau

⌵

Seleção: gato

☒ au, au

☐ miau, miau

☐ quack, quack

Radio: cachorro

☒ au, au

☒ miau, miau

☒ quack, quack

Múltiplo: [ "cachorro", "pato", "gato" ]

Texto: