

SW-II

SISTEMAS WEB II

Prof. Anderson Vanin
AULA 17 – Conectando o Frontend ao Backend

Objetivo

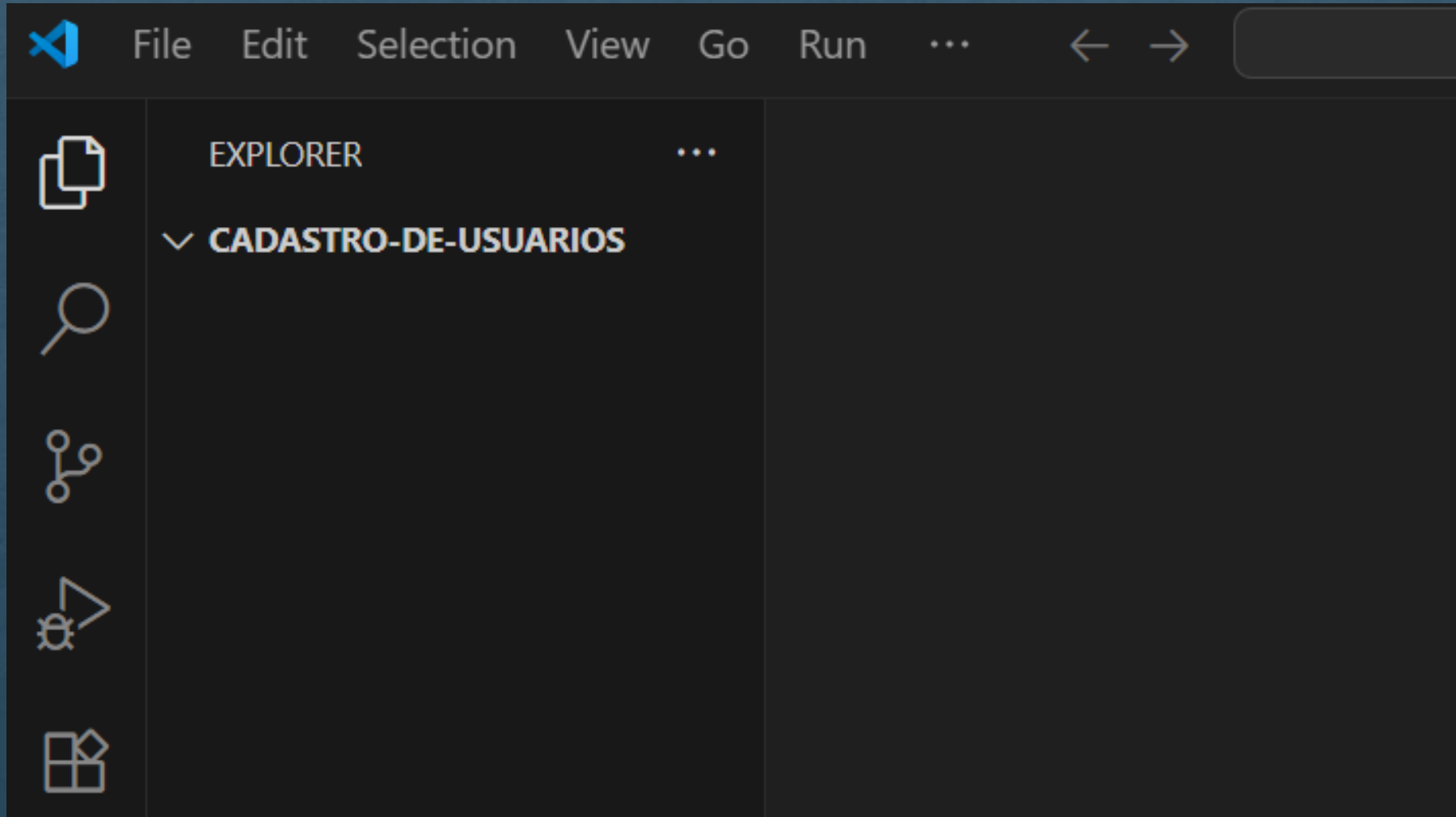
Elaborar o **Front-End** para se conectar a **API** que criamos nas últimas aulas. Para isso vamos utilizar algumas tecnologias *JavaScript* como por exemplo o **VITE** e o **REACT**.

A user registration form titled "Cadastro de Usuários" with a dark blue background. It features three input fields for "Nome", "Idade", and "E-mail", each with a light blue placeholder. Below the fields is a light blue "Cadastrar" button. At the bottom, there are two rows of user data, each with a red circular icon to its right. The first row shows "Nome: Joaquim", "Idade: 33", and "E-mail: joaquim@email.com". The second row shows "Nome: Paulo", "Idade: 32", and "E-mail: paulo@email.com".

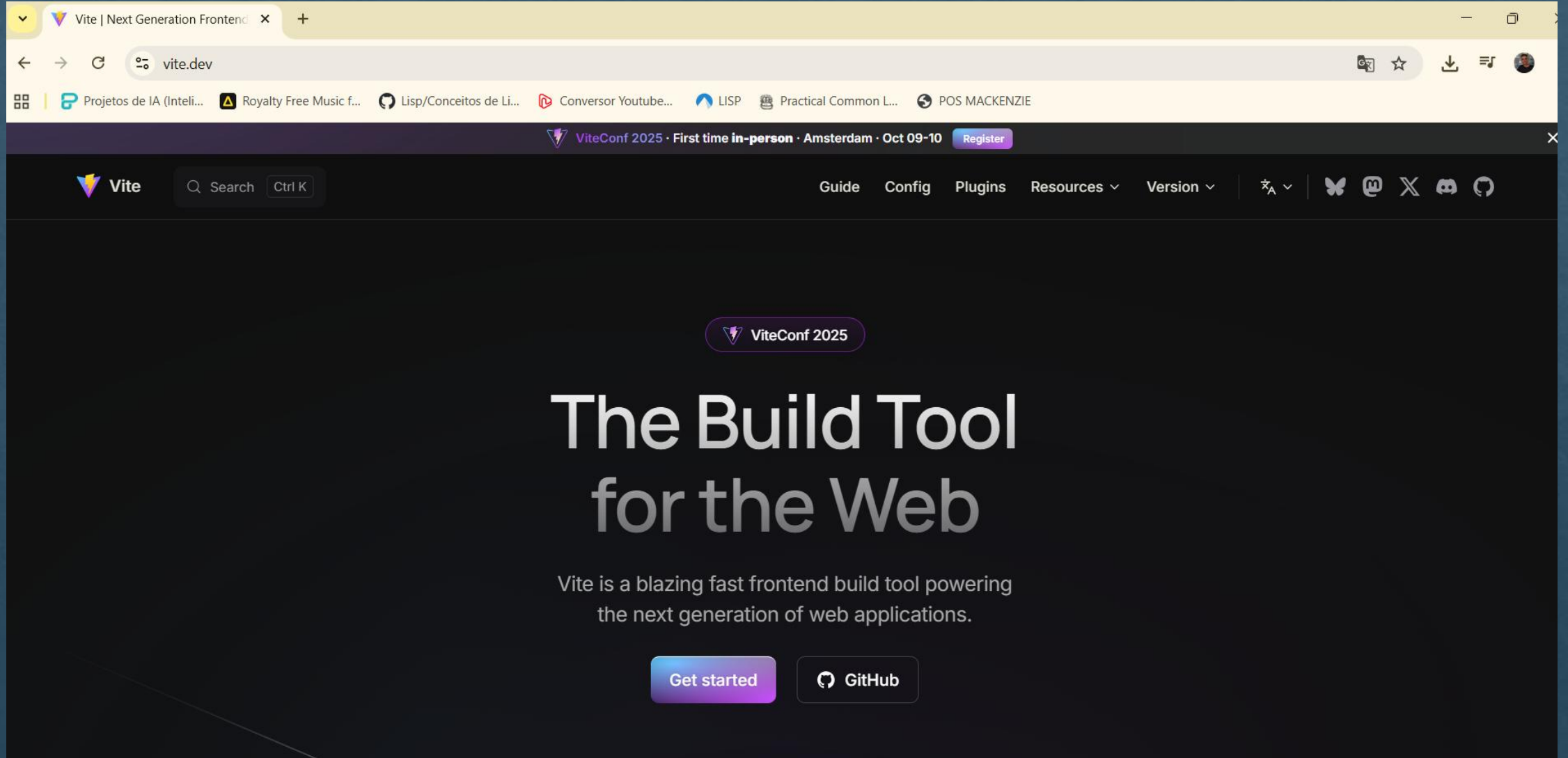
Cadastro de Usuários		
Nome		
Idade		
E-mail		
Cadastrar		
Nome: Joaquim		
Idade: 33		
E-mail: joaquim@email.com		
Nome: Paulo		
Idade: 32		
E-mail: paulo@email.com		

Pasta do projeto

- Crie uma pasta chamada **cadastro-de-usuários**



Framework - VITE



Instalando

- `npm create vite@latest`

```
C:\Users\Anderson\Desktop\cadastro-de-usuarios>npm create vite@latest
Need to install the following packages:
create-vite@7.1.1
Ok to proceed? (y) y
```

```
> npx
> create-vite
```

```
◆ Project name:
  etecmcm-cadastro-usuarios
```

```
◆ Select a framework:
```

- Vanilla
- Vue
- React
- Preact
- Lit
- Svelte
- Solid
- Qwik
- Angular
- Marko
- Others

```
◆ Select a variant:
```

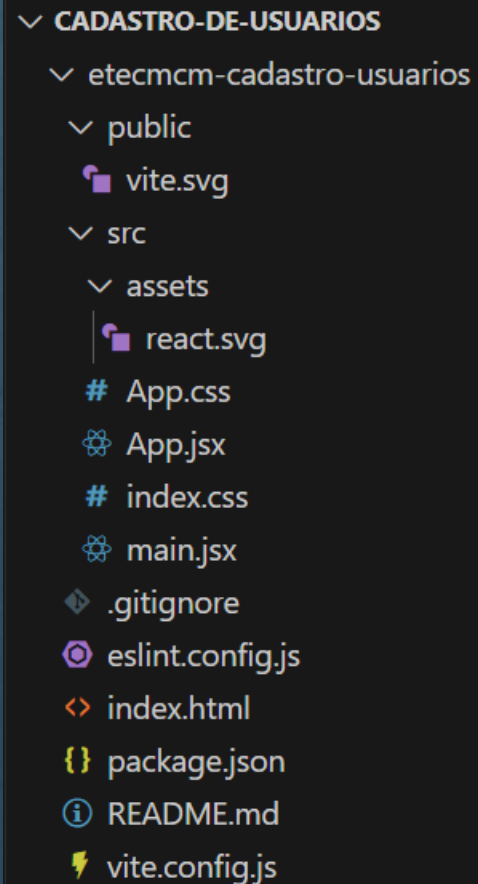
- TypeScript
- TypeScript + SWC
- JavaScript
- JavaScript + SWC
- React Router v7 ↗
- TanStack Router ↗
- RedwoodSDK ↗
- RSC ↗

```
Done. Now run:
```

```
cd etecmcm-cadastro-usuarios
npm install
npm run dev
```


Entrar na pasta raiz do projeto

```
C:\Users\Anderson\Desktop\cadastro-de-usuarios\etecmcm-cadastro-usuarios>
```



A screenshot of a file explorer window showing the directory structure of a project. The root directory is 'CADASTRO-DE-USUARIOS'. Inside it is a subdirectory 'etecmcm-cadastro-usuarios'. Within this subdirectory, there are two subdirectories: 'public' and 'src'. The 'public' directory contains a file 'vite.svg'. The 'src' directory contains a subdirectory 'assets' with a file 'react.svg', and several other files: 'App.css', 'App.jsx', 'index.css', 'main.jsx', '.gitignore', 'eslint.config.js', 'index.html', 'package.json', 'README.md', and 'vite.config.js'.

- ▼ CADASTRO-DE-USUARIOS
 - ▼ etecmcm-cadastro-usuarios
 - ▼ public
 - vite.svg
 - ▼ src
 - ▼ assets
 - react.svg
 - App.css
 - App.jsx
 - index.css
 - main.jsx
 - .gitignore
 - eslint.config.js
 - index.html
 - package.json
 - README.md
 - vite.config.js

Instalar dependências

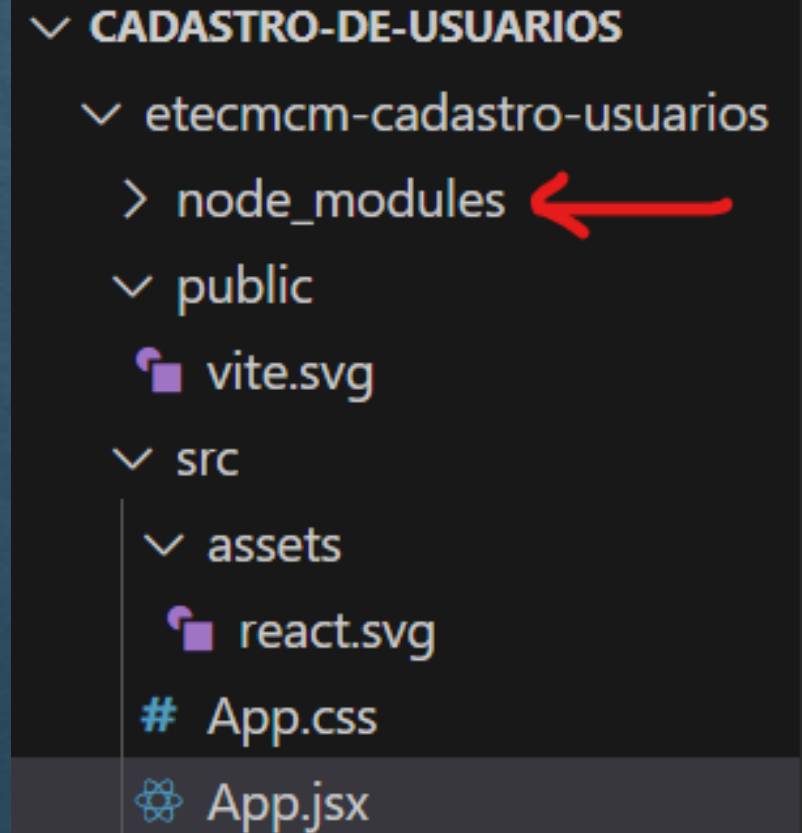
- `npm i`

```
C:\Users\Anderson\Desktop\cadastro-de-usuarios\etecmcm-cadastro-usuarios>npm i

added 152 packages, and audited 153 packages in 12s

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

found 0 vulnerabilities
```



```
▼ CADASTRO-DE-USUARIOS
  ▼ etecmcm-cadastro-usuarios
    > node_modules ←
    ▼ public
      vite.svg
    ▼ src
      ▼ assets
        react.svg
      # App.css
      App.jsx
```

Primeiro teste de instalação

- `npm run dev`

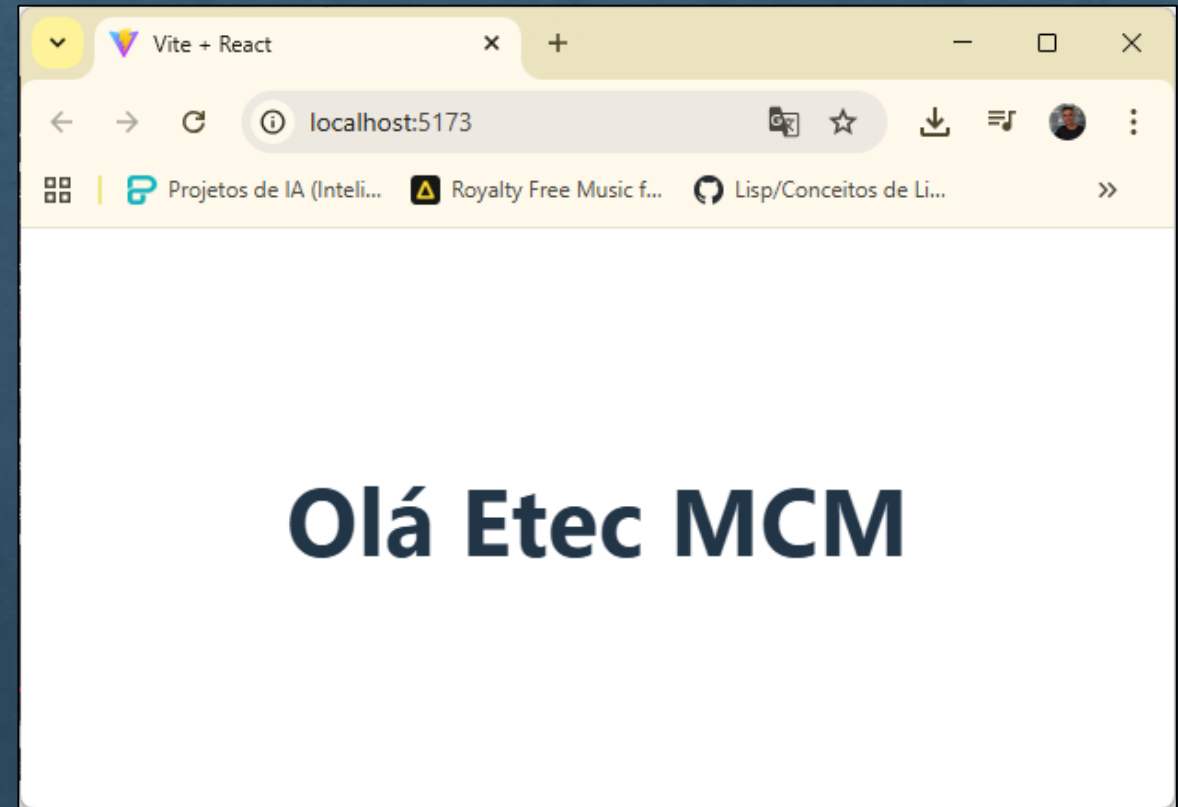
```
VITE v7.1.3 ready in 295 ms
```

```
→ Local:   http://localhost:5173/  
→ Network: use --host to expose  
→ press h + enter to show help
```

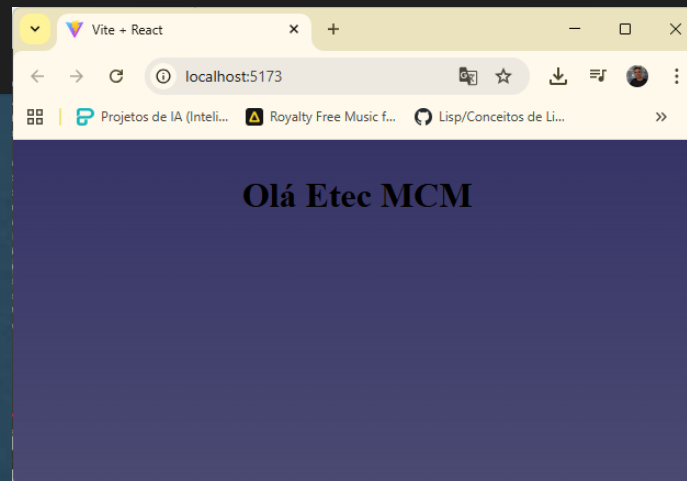
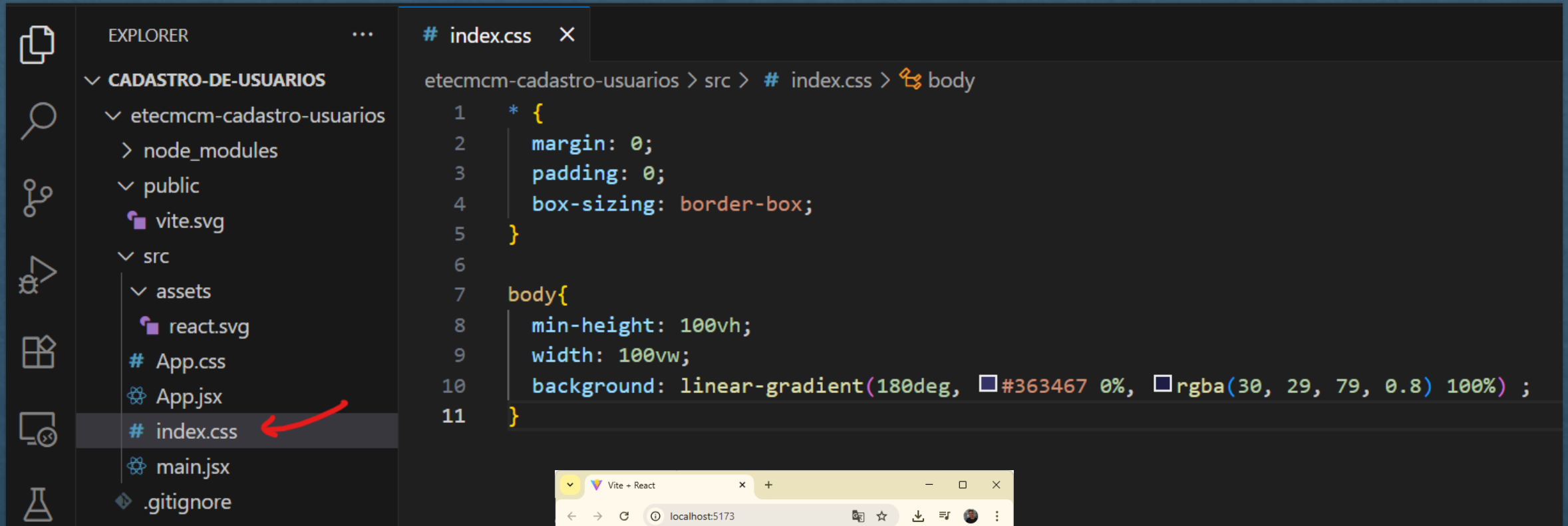


Limpando o App.jsx

```
App.jsx X
etecmcm-cadastro-usuarios > src > App.jsx > ...
1  import './App.css'
2
3  function App() {
4    return (
5      <div>
6        <h1>Olá Etec MCM</h1>
7      </div>
8    )
9  }
10
11  export default App
```



Reconfigurar os estilos globais em index.css



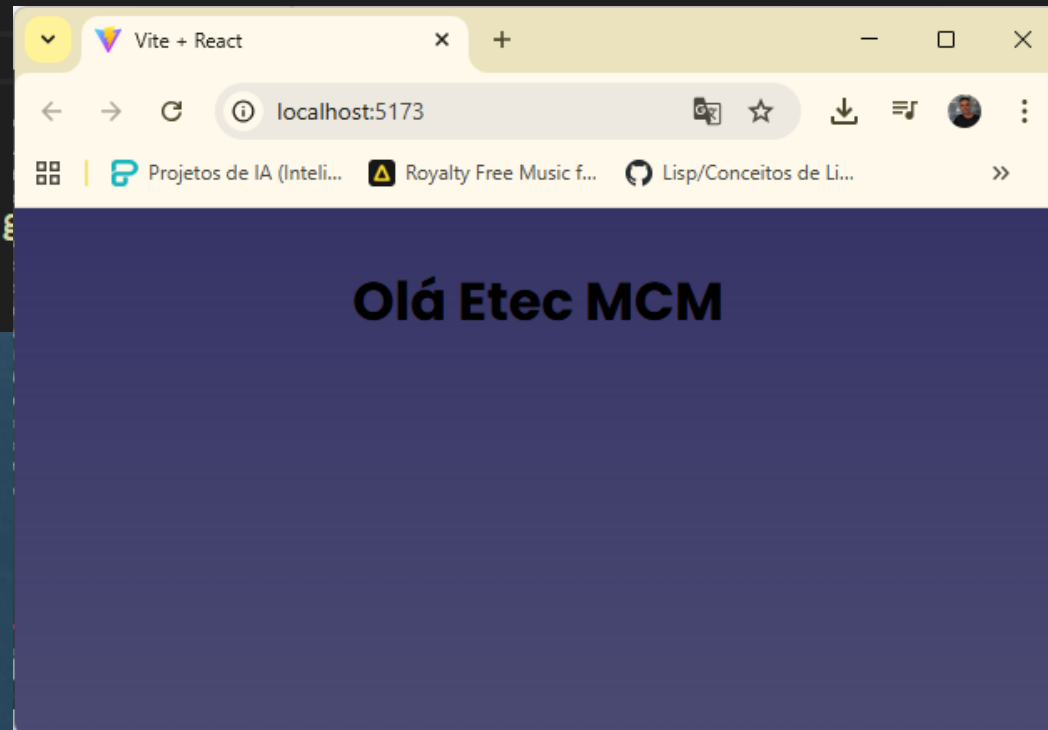
Alterando a fonte (Google Fonts – Poppins)

```
etecmcm-cadastro-usuarios > <> index.html > html > body
1  <!doctype html>
2  <html lang="en">
3    <head>
4      <meta charset="UTF-8" />
5      <link rel="icon" type="image/svg+xml" href="/vite.svg" />
6      <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7      <title>Vite + React</title>
8      <link rel="preconnect" href="https://fonts.googleapis.com">
9      <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
10     <link href="https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300;0,400;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&family=Text+Me+One&display=swap" rel="stylesheet">
11   </head>
12   <body>
13     <div id="root"></div>
14     <script type="module" src="/src/main.jsx"></script>
15   </body>
16 </html>
17
```

Altere o CSS para usar a nova fonte

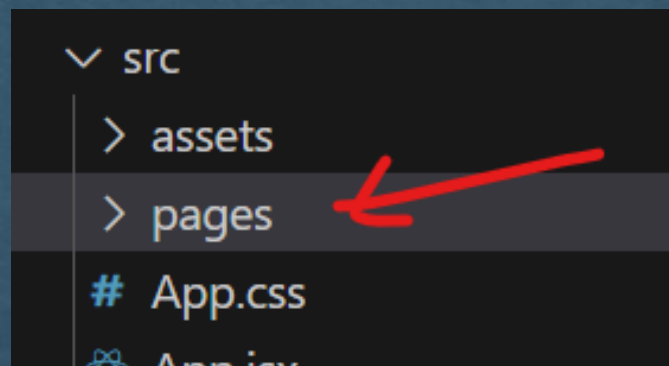
etecmcm-cadastro-usuarios > src > # index.css > body

```
1  * {  
2    margin: 0;  
3    padding: 0;  
4    box-sizing: border-box;  
5    font-family: "Poppins", sans-serif;  
6  }  
7  
8  body{  
9    min-height: 100vh;  
10   width: 100vw;  
11   background: linear-g  
12 }
```

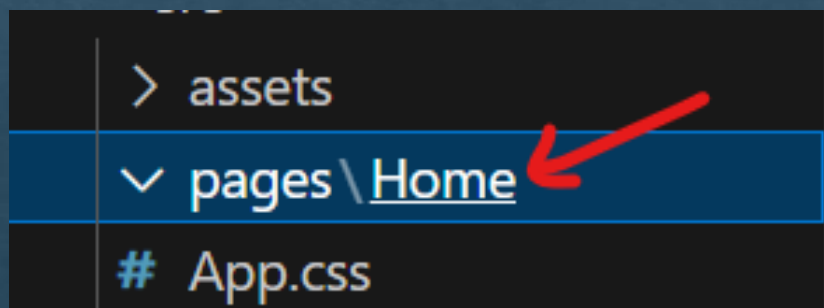


Organizar as páginas (telas) do projeto

- Dentro da pasta **src**, crie uma pasta chamada **pages**

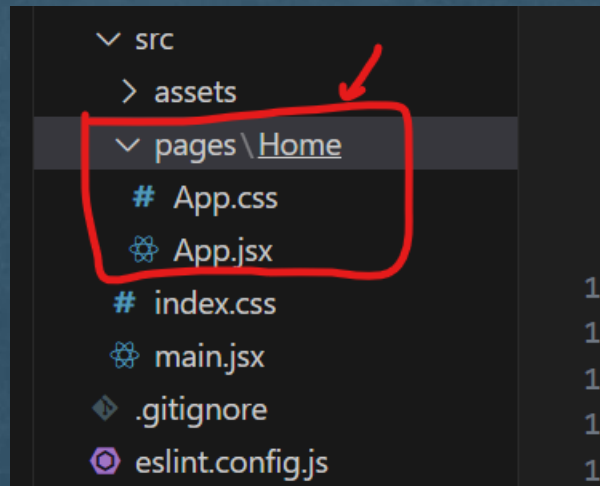


- Dentro da pasta **pages**, crie uma pasta chamada **Home** (com letra maiúscula!)

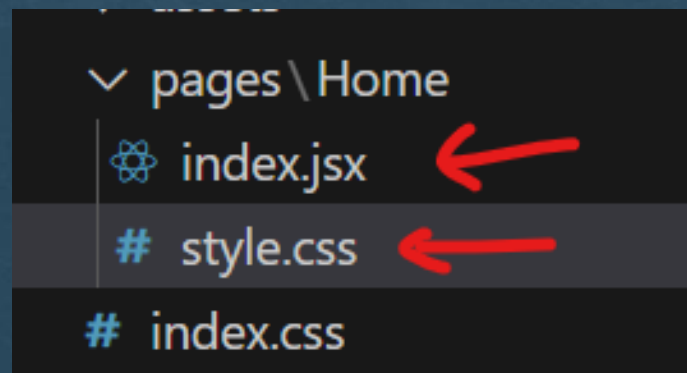


Organizar as páginas (telas) do projeto

- Mova os arquivos **App.css** e **App.jsx** para dentro da pasta **Home**



- Renomeie o arquivo **App.jsx** para **index.jsx** e o **App.css** para **style.css**



Altere o arquivo index.jsx dentro da pasta Home

▼ CADASTRO-DE-USUARIOS

▼ etecmcm-cadastro-usuarios

> node_modules

> public

▼ src

> assets

▼ pages\Home

🌀 index.jsx

style.css

index.css

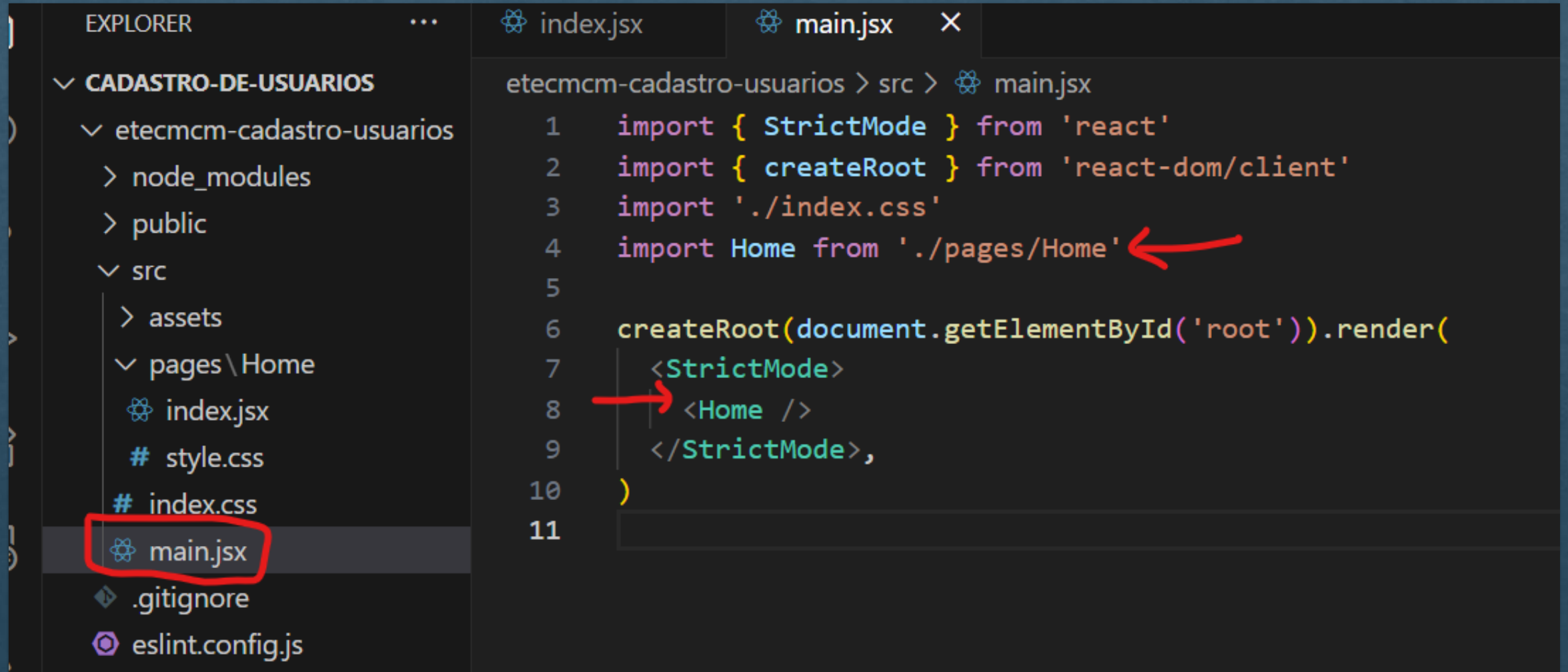
🌀 main.jsx

📄 .gitignore

etecmcm-cadastro-usuarios > src > pages > Home > 🌀 index.jsx > 🏠 Home

```
1  import './style.css' ←
2
3  ↓
4  function Home() {
5      return (
6          <div>
7              <h1>Olá Etec MCM</h1>
8          </div>
9      )
10 }
11
12 ↓
13 export default Home
```

Ajustar o arquivo main.jsx



The image shows a VS Code editor window with the Explorer sidebar on the left and the main editor area on the right. The Explorer sidebar shows the project structure for 'etecmcm-cadastro-usuarios'. The 'src' folder is expanded, showing 'assets', 'pages\Home', and 'index.css'. The 'main.jsx' file is selected and highlighted with a red rectangle. The main editor area shows the content of 'main.jsx' with line numbers 1 through 11. The code imports 'StrictMode' from 'react', 'createRoot' from 'react-dom/client', and './index.css'. It also imports 'Home' from './pages/Home', which is highlighted with a red arrow. The 'createRoot' function is called with 'document.getElementById('root')' and the 'render' method. The 'render' method contains a 'StrictMode' element with a 'Home' component inside, which is also highlighted with a red arrow.

```
EXPLORER  
▼ CADASTRO-DE-USUARIOS  
  ▼ etecmcm-cadastro-usuarios  
    > node_modules  
    > public  
    ▼ src  
      > assets  
      ▼ pages\Home  
        index.jsx  
        # style.css  
        # index.css  
        main.jsx  
      .gitignore  
      eslint.config.js  
index.jsx main.jsx  
etecmcm-cadastro-usuarios > src > main.jsx  
1  import { StrictMode } from 'react'  
2  import { createRoot } from 'react-dom/client'  
3  import './index.css'  
4  import Home from './pages/Home'  
5  
6  createRoot(document.getElementById('root')).render(  
7    <StrictMode>  
8    <Home />  
9    </StrictMode>,  
10 )  
11
```

Resetando o style.css da pasta Home

▼ CADASTRO-DE-USUARIOS

▼ etecmcm-cadastro-usuarios

> node_modules

> public

▼ src

> assets

▼ pages \ Home

🔗 index.jsx


style.css

index.css

🔗 main.jsx

etecmcm-cadastro-usuarios > src > pages > Home > # style.css

1 /* CSS da página inicial do aplicativo de cadastro de usuários */



Começando pelo HTML da página

Cadastro de Usuários

Nome





Idade

E-mail

Nome: Joaquim
Idade: 33
E-mail: joaquim@email.com

Nome: Paulo
Idade: 32
E-mail: paulo@email.com

EXPLORER

▼ CADASTRO-...    

▼ etecmcm-cadastro-usuarios


▼ node_modules

> public

▼ src


> assets


▼ pages\Home


 index.jsx


style.css


index.css


 main.jsx


 .gitignore

 eslint.config.js

 index.html

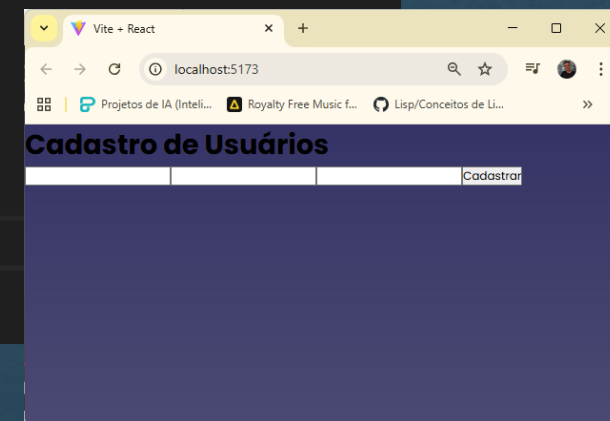
 package-lock.json

 package.json

 README.md

index.jsx

```
1  import './style.css'
2
3  function Home() {
4    return (
5      <div className='container'>
6        <form>
7          <h1>Cadastro de Usuários</h1>
8          <input name='nome' type='text' />
9          <input name='idade' type='number' />
10         <input name='email' type='email' />
11         <button type='button'>Cadastrar</button>
12       </form>
13     )
14   </div>
15
16 }
17
18 export default Home
```



Começando pelo HTML da página

Cadastro de Usuários

Cadastrar

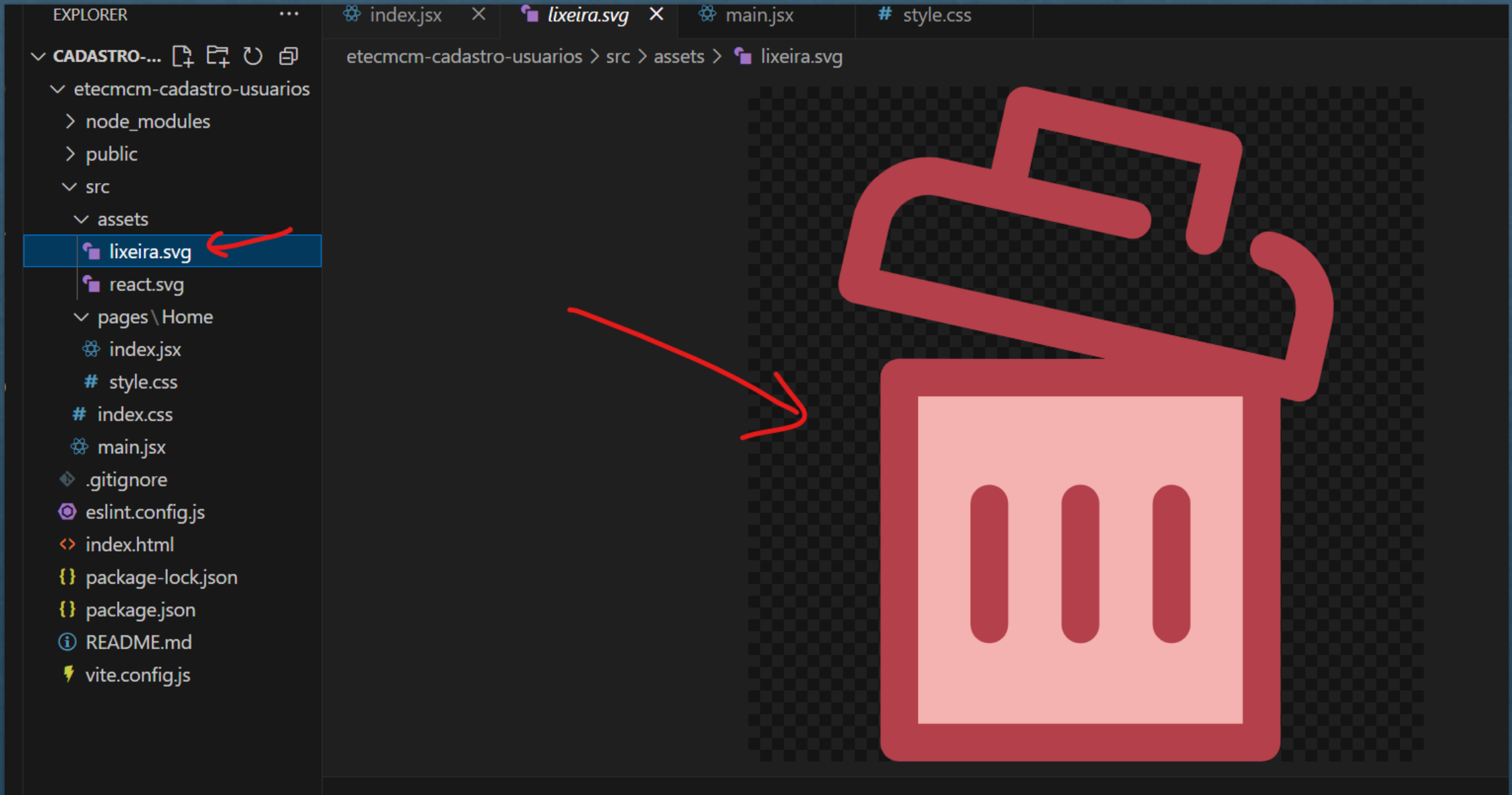
Nome: Joaquim
Idade: 33
E-mail: joaquim@email.com

Nome: Paulo
Idade: 32
E-mail: paulo@email.com

```
etecmcm-cadastro-usuarios > src > pages > Home > index.jsx > Home

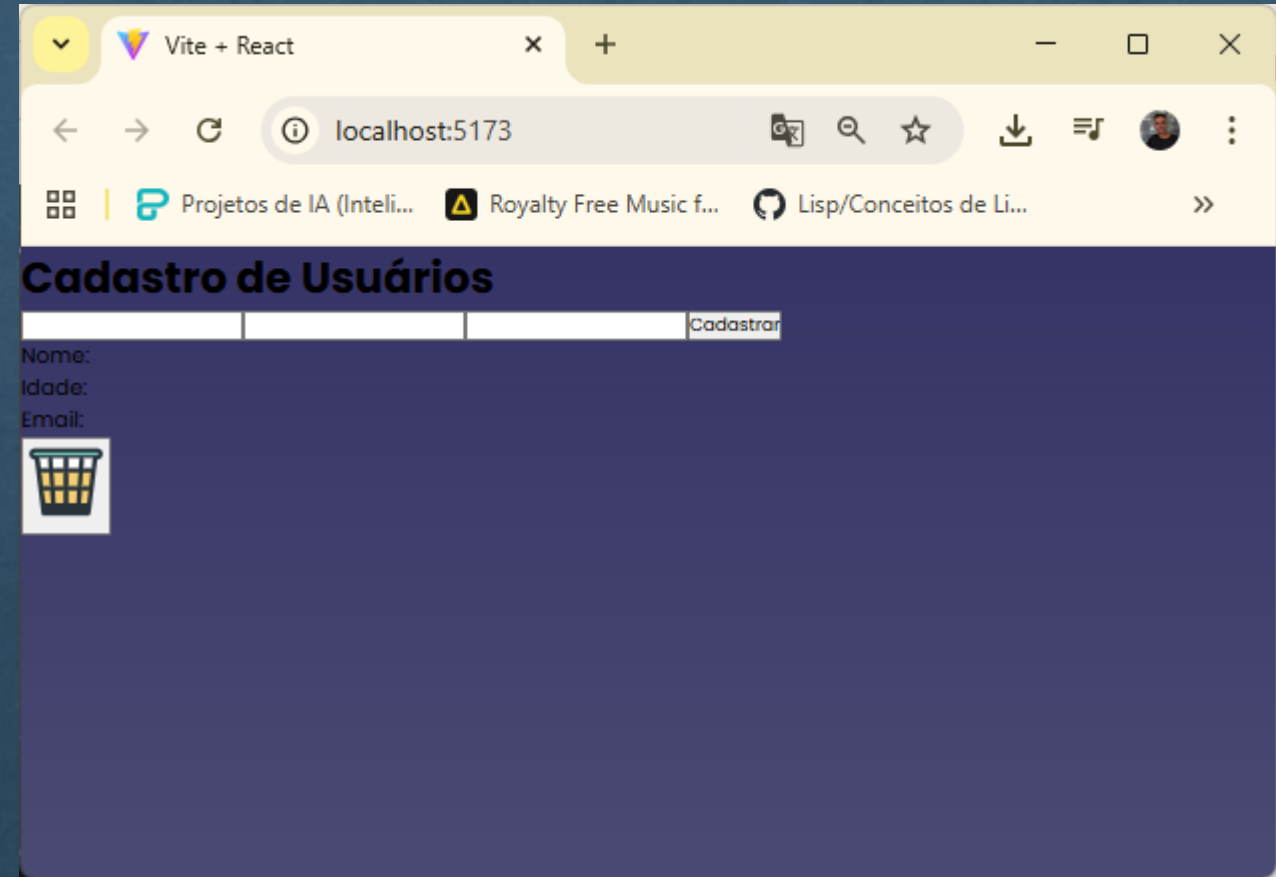
5      <div className='container'>
6          <form>
7              <h1>Cadastro de Usuários</h1>
8              <input name='nome' type='text' />
9              <input name='idade' type='number' />
10             <input name='email' type='email' />
11             <button type='button'>Cadastrar</button>
12         </form>
13         <div>
14             <div>
15                 <p>Nome: </p>
16                 <p>Idade: </p>
17                 <p>Email: </p>
18             </div>
19             <button>
20                 { /* aqui vamos inserir uma imagem */ }
21                 <img />
22             </button>
23         </div>
24     </div>
25 )
26 }
27
28 export default Home
```

Salvar uma imagem na pasta assets



Linkar a imagem

```
index.jsx ×
etecmcm-cadastro-usuarios > src > pages > Home > index.jsx > Home
1  import './style.css'
2  import Lixeira from '../assets/lixeira.svg'
3
4  function Home() {
5    return (
6      <div className='container'>
7        <form>
8          <h1>Cadastro de Usuários</h1>
9          <input name='nome' type='text' />
10         <input name='idade' type='number' />
11         <input name='email' type='email' />
12         <button type='button'>Cadastrar</button>
13       </form>
14       <div>
15         <div>
16           <p>Nome: </p>
17           <p>Idade: </p>
18           <p>Email: </p>
19         </div>
20         <button>
21           <img src={Lixeira} />
22         </button>
23       </div>
24     </div>
25   )
}
```



Criando um rascunho das informações

```
index.jsx 1 X
etecmcm-cadastro-usuarios > src > pages > Home > index.jsx > Home

1  import './style.css'
2  import Lixeira from '../assets/lixeira_peq.svg'
3
4  function Home() {
5      const usuarios = [{
6          id: 'jhfdjhjsdhfjh',
7          nome: 'Teste',
8          idade: 30,
9          email: 'teste@email.com'
10     }, {
11         id: '1374878ehhwe',
12         nome: 'Aline',
13         idade: 28,
14         email: 'aline@email.com'
15     }]
16     return (
17         <div className='container'>
```

Criando um rascunho das informações

```
21 <input name='idade' type='number' />
22 <input name='email' type='email' />
23 <button type='button'>Cadastrar</button>
24 </form>
```

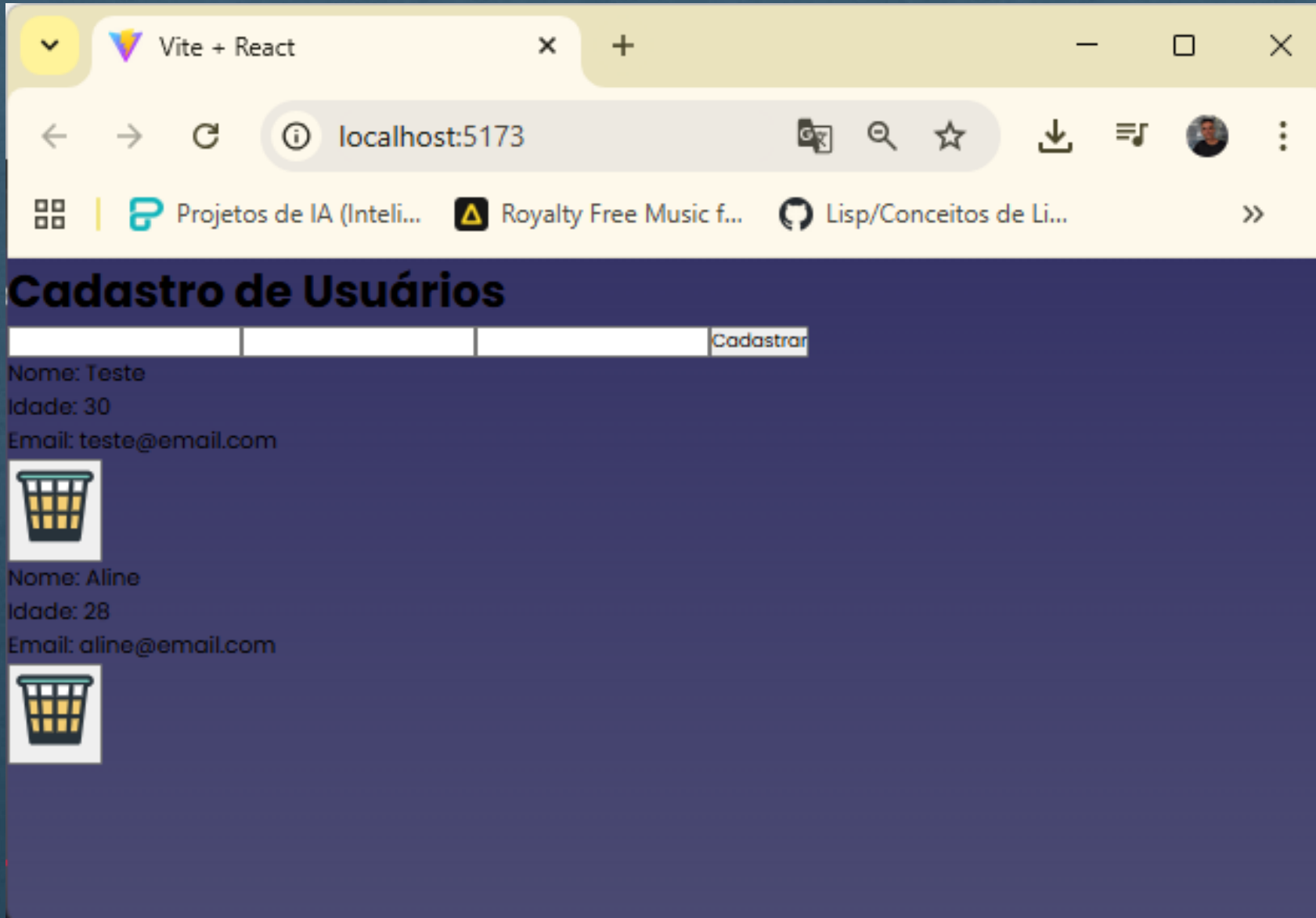
```
25
26 {usuarios.map(usuario => (
27   <div key={usuario.id}>
28     <div>
29       <p>Nome: {usuario.nome}</p>
30       <p>Idade: {usuario.idade}</p>
31       <p>Email: {usuario.email}</p>
32     </div>
33     <button>
34       <img src={Lixeira} />
35     </button>
36   </div>
37 ) ) }
```

```
38 </div>
```



```
39
40 )
```

```
etecmcm-cadastro-usuarios > src > pages > Home > index.jsx > Hon
11 id: '1374878ehhwe',
12 nome: 'Aline',
13 idade: 28,
14 email: 'aline@email.com'
15 ] ]
16 return (
17   <div className='container'>
18     <form>
19       <h1>Cadastro de Usuários</h1>
20       <input name='nome' type='text' />
21       <input name='idade' type='number' />
22       <input name='email' type='email' />
23       <button type='button'>Cadastrar</button>
24     </form>
25
26     {usuarios.map(usuario => (
27       <div key={usuario.id}>
28         <div>
29           <p>Nome: {usuario.nome}</p>
30           <p>Idade: {usuario.idade}</p>
31           <p>Email: {usuario.email}</p>
32         </div>
33         <button>
34           <img src={Lixeira} />
35         </button>
36       </div>
37     ) ) }
38
39   </div>
40 )
41 }
42
43 export default Home
```


Criando um rascunho das informações



The screenshot shows a web browser window with the title 'Vite + React' and the address bar displaying 'localhost:5173'. The browser's address bar includes navigation icons (back, forward, refresh), a search icon, a star icon, and a download icon. The browser's tab bar shows three tabs: 'Vite + React', 'Projetos de IA (Inteli...', and 'Royalty Free Music f...'. The main content area displays a form titled 'Cadastro de Usuários' with a 'Cadastrar' button. The form contains two rows of user information, each with a trash icon next to it.

Nome	Idade	Email	Ação
Nome: Teste	Idade: 30	Email: teste@email.com	
Nome: Aline	Idade: 28	Email: aline@email.com	


Ajustando o css dentro de Home

```
stechem-cadastro-usuarios / src / pages / Home / * style.css / form / & button
1  /* CSS da página inicial do aplicativo de cadastro de usuários */
2  .container{
3      display: flex;
4      align-items: center;
5      flex-direction: column;
6      padding-top: 100px;
7  }
8
9  h1{
10     color: #fff;
11     font-size: 32px;
12 }
13 form{
14     display: flex;
15     flex-direction: column;
16     gap: 30px;
17     padding: 30px;
18     border-radius: 10px;
19     background-color: #2E2d4e;
20     max-width: 50%;
21     width: 400px;
22     margin-bottom: 20px;
23
24     & button{
25         border-radius: 30px;
26         background-color: #8b8ae1;
27         height: 40px;
28         border: none;
29         font-weight: bold;
30         cursor: pointer;
31     }
32 }
```

Continua...

Ajustando o css dentro de Home


```
25 & button {
26     border-radius: 30px;
27     background-color: #8b8ae1;
28     height: 40px;
29     border: none;
30     font-weight: bold;
31     cursor: pointer;
32
33 }
34
35 & button:hover {
36     opacity: 0.8;
37 }
38
39 &input {
40     border: 1px solid #48456c;
41     border-radius: 30px;
42     height: 40px;
43     background-color: #363653;
44     color: #fff;
45     font-size: 16px;
46     padding-left: 10px;
47     outline: none;
48 }
49 }
```



Continua...

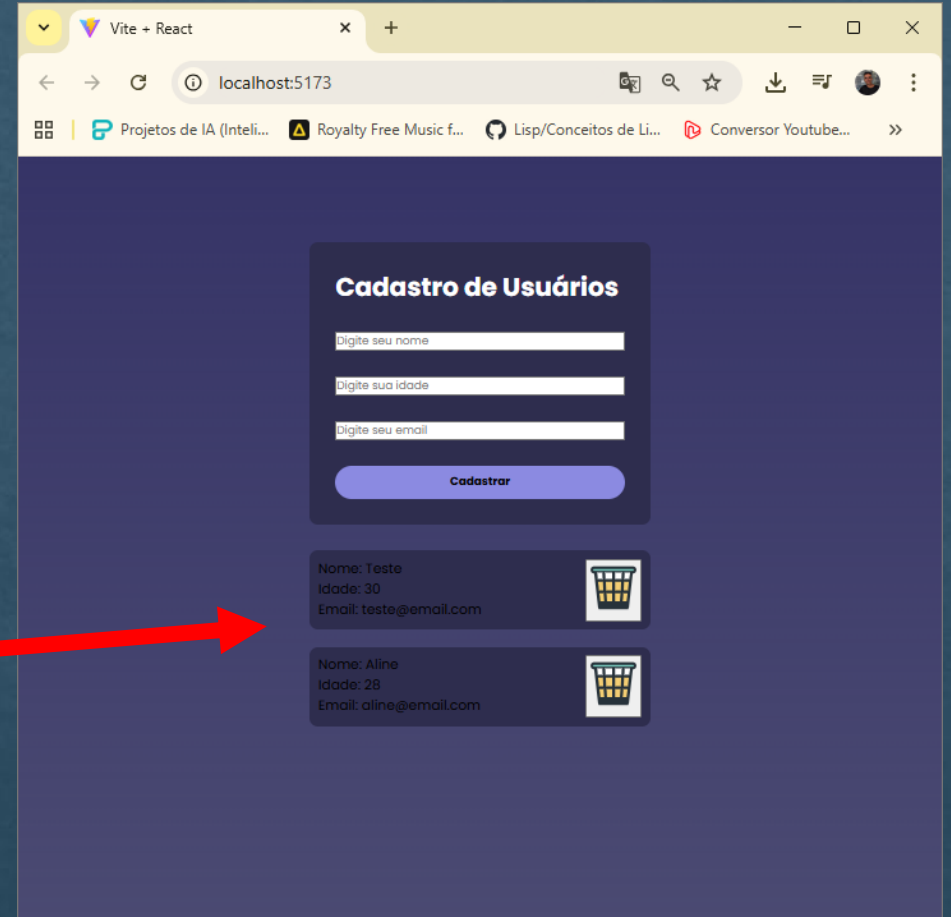
Adicionando uma class nos cards

```
<input placeholder="Digite seu email" name="email" type="email" />  
<button type="button">Cadastrar</button>  
</form>  
  
{usuarios.map(usuario => (  
  <div key={usuario.id} className='card'>  
    <div>  
      <p>Nome: {usuario.nome}</p>  
      <p>Idade: {usuario.idade}</p>  
      <p>Email: {usuario.email}</p>  
    </div>  
  )
```



Ajustando o css dentro de Home

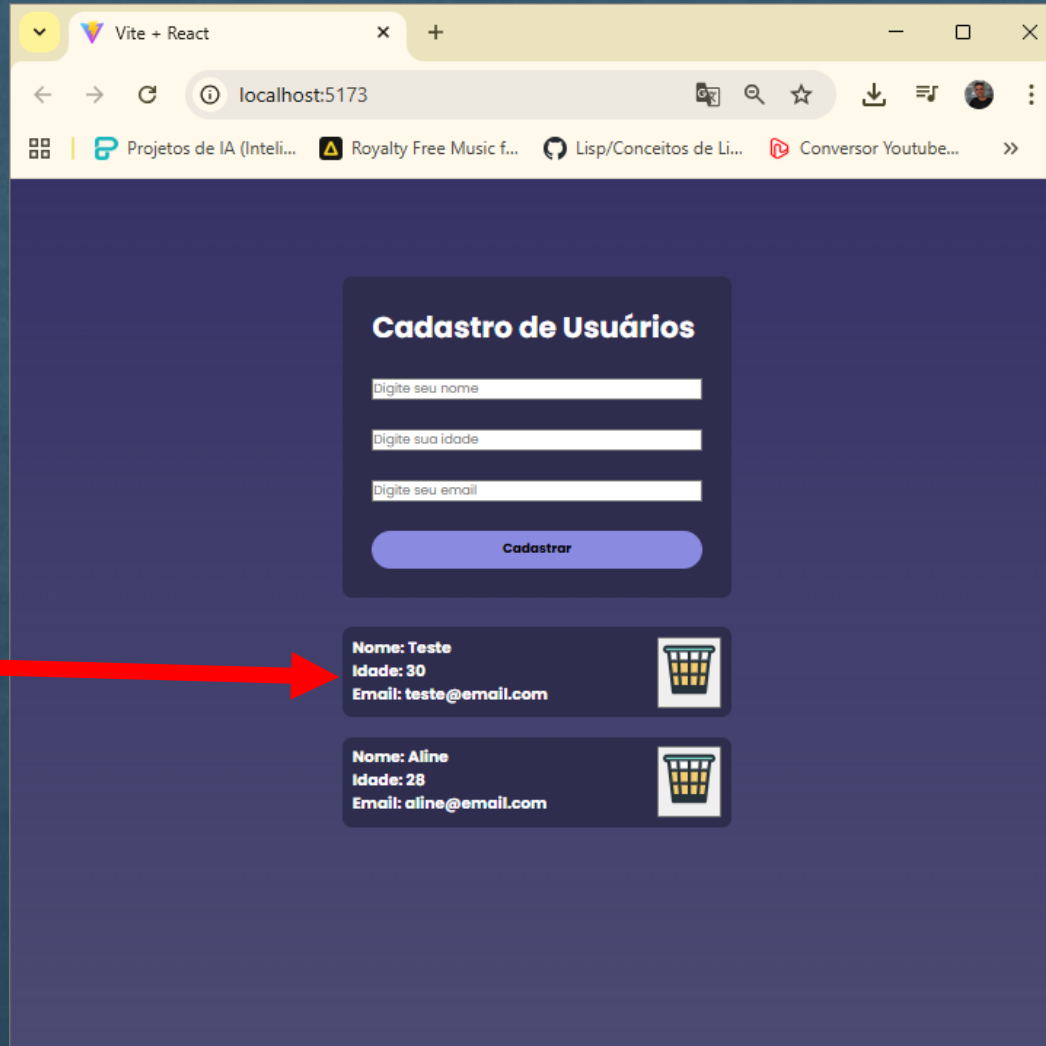
```
44     color: #fff;  
45     font-size: 16px;  
46     padding-left: 10px;  
47     outline: none;  
48   }  
49 }  
50  
51 .card {  
52   display: flex;  
53   justify-content: space-between;  
54   background-color: #2E2d4e;  
55   margin: 10px;  
56   padding: 10px;  
57   width: 400px;  
58   border-radius: 10px;  
59 }
```



Continua...

Ajustando o css dentro de Home

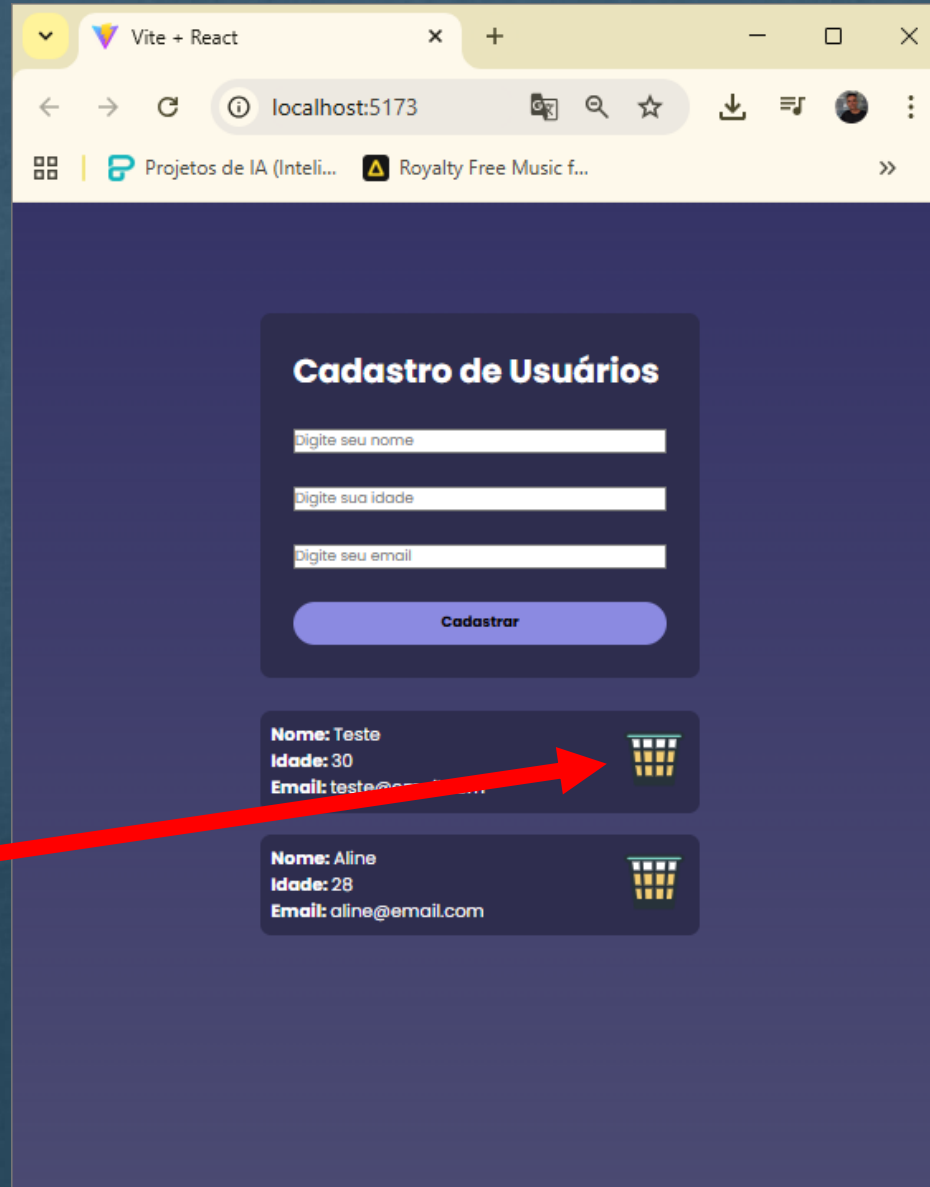
```
.card {  
  display: flex;  
  justify-content: space-between;  
  background-color: #2E2d4e;  
  margin: 10px;  
  padding: 10px;  
  width: 400px;  
  border-radius: 10px;  
  
  & p {  
    color: #fff;  
    font-weight: bold;  
  }  
}
```



Continua...

Ajustando o css dentro de Home

```
.card {  
  display: flex;  
  justify-content: space-between;  
  background-color: #2E2d4e;  
  margin: 10px;  
  padding: 10px;  
  width: 400px;  
  border-radius: 10px;  
  
  & p {  
    color: #fff;  
    font-weight: bold;  
  
    & span {  
      font-weight: normal;  
    }  
  }  
  
  & button {  
    background-color: transparent;  
    border: none;  
    cursor: pointer;  
  }  
}
```



Continua...

Na próxima aula vamos conectar este
frontend ao backend que criamos nas
últimas aulas...