



Programação para a Internet I

Fetch API

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Fetch API

- https://developer.mozilla.org/pt-BR/docs/Web/API/Fetch_API

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Bibliotecas importantes

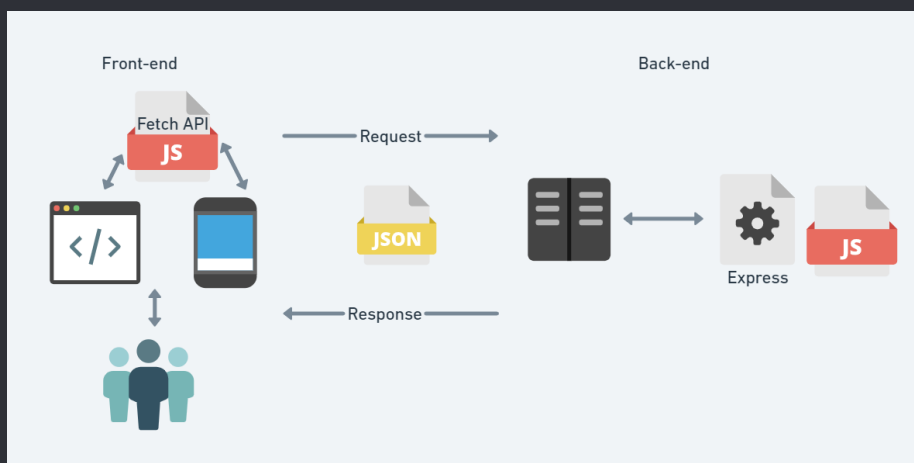
- Fetch API;
- Express;
- Cors
- ... e suas @types

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O ecossistema



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Criando um template HTML

```
<!DOCTYPE html>
<html>
<head>... </head>
<body>
  <div class="container">
    <header class="row">...</header>
    <main class="row">
      <section id = "new-post">
      </section>
      <section id = "timeline">
      </section>
    </main>
    <footer class="row">...</footer>
  </div>
</body>
</html>
```

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Criando um template HTML

```
<!-- ... -->
<main class="row ">
  <section id="new-post">
    <h2>New post</h2>
    <input id = "post-tile" placeholder = "Post title">
    <input id="post-text" placeholder="Type your message...">
    <button id="add-post" value="Add">
  </section>
  <section id="timeline">
    <h2>My timeline</h2>
    <article class="post">
      <p>text 2</p>
      <p>10 like(s)</p>
    </article>
    <!-- ... -->
    <hr>
  </section>
</main>
```

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Definindo um template para posts

```
<section id = "timeline">
  <!-- ... -->
  <h2>My timeline</h2>

  <template id = "post-template">
    <article class = "post">
      <p>Lorem ipsum ... possimus rem!</p>
      <p>10 like(s)</p>
      <hr>
    </article>
  </template>
  <!-- ... -->
</section>
```

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O template

Social Network

Share your thoughts

New post

My timeline

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No head

```
<!-- ... -->
<head>

    <!-- ... -->
    <script src="posts.js"></script>
</head>
<!-- ... -->
```

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Carregando os posts (blog.js)

```
window.onload = () => {
    loadPosts();
}

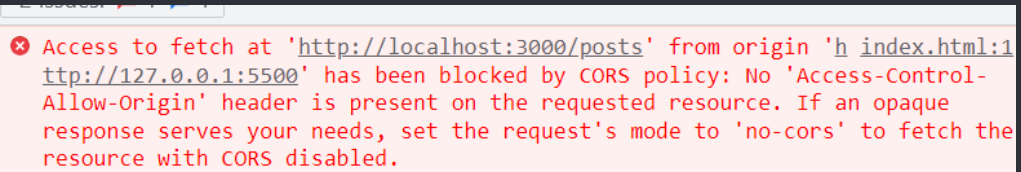
const loadPosts = async () => {
    console.log('starting');
    const response = await fetch('http://localhost:3000/posts');
    const posts = response.json();
    console.log(posts);
    console.log('finished');
}
```

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CORS



✖ Access to fetch at 'http://localhost:3000/posts' from origin 'http://127.0.0.1:5500' has been blocked by CORS policy: No 'Access-Control-Allow-Origin' header is present on the requested resource. If an opaque response serves your needs, set the request's mode to 'no-cors' to fetch the resource with CORS disabled.

npm install cors

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No servidor

```
//... app.js
const cors = require('cors')
app.use(cors())
//...
```

npm install cors

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Exibindo os posts

```
const loadPosts = async () => {
  const response = await fetch('http://localhost:3000/posts')
  const posts = await response.json();

  posts.forEach(post => {
    const template = document.getElementById('post-template');
    const postElement = document.importNode(template.content, true);
    const postTitle = postElement.querySelectorAll('h3')[0]
    postTitle.innerText = post.title;
    const postItens = postElement.querySelectorAll('p')
    postItens[0].innerText = post.text;
    postItens[1].innerText = post.likes + " like(s)";
    document.getElementById('timeline').append(postElement);
  });
}
```

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Adicionando posts

```
window.onload = () => {
  var addPost = document.getElementById('add-post');
  addPost.addEventListener('click', addPost);
  loadPosts();
}
```

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Adicionando posts

```
const addPost = async () => {
  const newPost = {
    "title": document.getElementById('post-title').value,
    "text" : document.getElementById('post-text').value,
    "likes" : 0,
  }
  const config = {
    'method': 'POST',
    'headers': {
      'Content-Type': 'application/json'
    },
    body: JSON.stringify(newPost)
  }

  const response = await fetch('http://localhost:3000/posts', config);
  //...
  const post = await response.json();
}
```

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Refatorando

```
appendPost = (post) => {
  const template = document.getElementById('post-template');
  const postTitle = postElement.querySelectorAll('h3')[0]
  postTitle.innerText = post.title;

  const postElement = document.importNode(template.content, true);
  const postItens = postElement.querySelectorAll('p')
  postItens[0].innerText = post.text;
  postItens[1].innerText = post.likes + " like(s)";
  document.getElementById('timeline').append(postElement);
}
```

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Refatorando

```
const loadPosts = async () => {  
  const response = await fetch('http://localhost:3000/posts')  
  const posts = await response.json();  
  
  posts.forEach(post => {  
    appendPost(post);  
  });  
}
```

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Refatorando

```
async function addPost() {  
  
  //...  
  const response =  
    await fetch('http://localhost:3000/posts', config);  
  const post = await response.json();  
  
  appendPost(post);  
}
```

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