## Desenvolvimento de Interfaces Web

# HTML, CSS, JS

## Prática 09

## **API** fetch

GitHub: https://github.com/wdiasmaciel/js-fetch-API

Analise e execute os exemplos a seguir.

1) GET /posts/:id

```
<!DOCTYPE html>
<html lang="pt-br">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>fetch</title>
 <style>
   html,
   body {
     font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
     font-size: 16px;
   main {
     width: 51rem;
     margin: 1rem auto;
    input[type="number"],
   button {
     text-align: right;
     padding: 0.5rem;
    input[type="number"] {
     width: 10rem;
     margin-bottom: 0.5rem;
   button {
     margin-bottom: 0.5rem;
```

```
#resp {
     padding: 0.5rem;
     background-color: orangered;
     color: white;
     width: 50rem;
    .campo {
     color: yellow;
     font-weight: bold;
 </style>
 <script>
   function imprime(objeto) {
     var mensagem = `
     <br>
       <br>
        "<span class='campo'>id</span>": ${objeto.id},
        "<span class='campo'>userId</span>": ${objeto.userId},
        "<span class='campo'>title</span>": ${objeto.title},
       "<span class='campo'>body</span>": ${objeto.body}
     <br>>`
     return mensagem;
   async function getPostagem(id) {
     await fetch(`https://jsonplaceholder.typicode.com/posts/${id}`)
        .then((response) => response.json())
        .then((json) => {
         console.log(json);
         respjson.innerHTML = imprime(json);
       });
 </script>
<body>
   <h1>Postagens</h1>
```

#### 2) GET /posts

```
<!DOCTYPE html>
<html lang="pt-br">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>fetch</title>
 <style>
   html,
   body {
     font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
     font-size: 16px;
   main {
     width: 51rem;
     margin: 1rem auto;
   button {
     text-align: right;
     padding: 0.5rem;
     margin-bottom: 0.5rem;
    #resp {
     padding: 0.5rem;
     background-color: orangered;
     color: white;
     width: 50rem;
```

```
.campo {
     color: yellow;
     font-weight: bold;
 </style>
 <script>
   function imprime(objeto) {
     var mensagem;
     objeto.forEach(function (obj) {
       mensagem +=
       <br>
         <br>
         "<span class='campo'>id</span>": ${obj.id},
         "<span class='campo'>userId</span>": ${obj.userId},
         "<span class='campo'>title</span>": ${obj.title},
         <br>
         "<span class='campo'>body</span>": ${obj.body}
         <br>
       <br>>`
     });
     return mensagem;
   async function getPostagens() {
     await fetch(`https://jsonplaceholder.typicode.com/posts`)
       .then((response) => response.json())
        .then((json) => {
         console.log(json);
         respjson.innerHTML = imprime(json);
       });
 </script>
<body>
   <h1>Postagens</h1>
   <button onclick="getPostagens()">Buscar</button>
   <div id="resp">
```

#### 3) POST /posts

```
<!DOCTYPE html>
<html lang="pt-br">
<head>
 <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>fetch</title>
  <style>
   html,
   body {
     font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
     font-size: 16px;
   main {
     width: 51rem;
     margin: 1rem auto;
    button {
     text-align: right;
     padding: 0.5rem;
     margin-bottom: 0.5rem;
    #resp {
      padding: 0.5rem;
     background-color: orangered;
     color: white;
     width: 50rem;
    .campo {
     color: yellow;
     font-weight: bold;
  </style>
```

```
<script>
   function imprime(objeto) {
     var mensagem = `
     <br>
       <br>
       "<span class='campo'>id</span>": ${objeto.id},
       "<span class='campo'>userId</span>": ${objeto.userId},
       <br>
       "<span class='campo'>title</span>": ${objeto.title},
       "<span class='campo'>body</span>": ${objeto.body}
       <br>
     return mensagem;
   async function postPostagens() {
     fetch('https://jsonplaceholder.typicode.com/posts', {
       method: 'POST',
       headers: {
          'Content-type': 'application/json; charset=UTF-8',
       },
       body: JSON.stringify({
         title: 'Nova Postagem',
         body: 'Essa é a minha mais nova postagem! :D',
         userId: 1,
       }),
     })
       .then((response) => response.json())
       .then((json) => {
         console.log(json);
         respjson.innerHTML = imprime(json);
       });
 </script>
<body>
   <h1>Postagens</h1>
   <button onclick="postPostagens()">Enviar</button>
   <div id="resp">
```

#### 4) PUT /posts/:id

```
<!DOCTYPE html>
<html lang="pt-br">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>fetch</title>
 <style>
   html,
   body {
      font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
      font-size: 16px;
   main {
     width: 51rem;
     margin: 1rem auto;
   button {
     text-align: right;
     padding: 0.5rem;
     margin-bottom: 0.5rem;
    #resp {
     padding: 0.5rem;
     background-color: orangered;
     color: white;
     width: 50rem;
    .campo {
     color: yellow;
     font-weight: bold;
  </style>
```

```
<script>
   function imprime(objeto) {
     var mensagem =
     <br>
       <br>
       "<span class='campo'>id</span>": ${objeto.id},
        "<span class='campo'>userId</span>": ${objeto.userId},
        "<span class='campo'>title</span>": ${objeto.title},
       "<span class='campo'>body</span>": ${objeto.body}
     <br>>`
     return mensagem;
   async function atualizarPostagens() {
     fetch('https://jsonplaceholder.typicode.com/posts/1', {
       method: 'PUT',
       headers: {
          'Content-type': 'application/json; charset=UTF-8',
       },
       body: JSON.stringify({
         id: 1,
         title: 'Minha Mais Nova Postagem',
         body: 'Essa é a atualização da minha mais nova postagem! :D',
         userId: 1,
       }),
     })
        .then((response) => response.json())
        .then((json) => {
         console.log(json);
          respjson.innerHTML = imprime(json);
       });
 </script>
</head>
<body>
   <h1>Postagens</h1>
   <button onclick="atualizarPostagens()">Atualizar</putton>
```

#### 5) PATCH /posts/:id

```
<!DOCTYPE html>
<html lang="pt-br">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>fetch</title>
  <style>
   html,
   body {
      font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
      font-size: 16px;
   main {
     width: 51rem;
     margin: 1rem auto;
    input[type="number"],
    button {
      text-align: right;
     padding: 0.5rem;
    input[type="number"] {
     width: 10rem;
     margin-bottom: 0.5rem;
    button {
     margin-bottom: 0.5rem;
    #resp {
     padding: 0.5rem;
```

```
background-color: orangered;
   color: white;
   width: 50rem;
  .campo {
   color: yellow;
   font-weight: bold;
</style>
<script>
  function imprime(objeto) {
   var mensagem = `
    <br>
      <br>
      "<span class='campo'>id</span>": ${objeto.id},
      "<span class='campo'>userId</span>": ${objeto.userId},
      <br>
     "<span class='campo'>title</span>": ${objeto.title},
      "<span class='campo'>body</span>": ${objeto.body}
      <br>
   <br>>`
   return mensagem;
  async function modificarPostagens(id) {
   fetch(`https://jsonplaceholder.typicode.com/posts/${id}`, {
      method: 'PATCH',
     headers: {
        'Content-type': 'application/json; charset=UTF-8',
      body: JSON.stringify({
        title: 'Essa é a modificação da minha mais nova postagem! :D',
      }),
    })
      .then((response) => response.json())
      .then((json) => {
        console.log(json);
        respjson.innerHTML = imprime(json);
      });
</script>
```

#### 6) DELETE /posts/:id

```
<!DOCTYPE html>
<html lang="pt-br">
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>fetch</title>
 <style>
   html,
   body {
     font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
     font-size: 16px;
   main {
     width: 51rem;
     margin: 1rem auto;
    input[type="number"],
   button {
     text-align: right;
     padding: 0.5rem;
    input[type="number"] {
     width: 10rem;
     margin-bottom: 0.5rem;
```

```
button {
     margin-bottom: 0.5rem;
    #resp {
      padding: 0.5rem;
      background-color: orangered;
      color: white;
     width: 50rem;
    .campo {
      color: yellow;
      font-weight: bold;
  </style>
  <script>
    function imprime(objeto) {
      var mensagem = `
      <br>
        <br>
        "<span class='campo'>id</span>": ${objeto.id},
        <br>
        "<span class='campo'>userId</span>": ${objeto.userId},
        "<span class='campo'>title</span>": ${objeto.title},
        "<span class='campo'>body</span>": ${objeto.body}
        <br>
      <br>>`
     return mensagem;
    async function removerPostagem(id) {
      fetch(`https://jsonplaceholder.typicode.com/posts/${id}`, {
        method: 'DELETE',
      });
  </script>
</head>
<body>
```

7) Filtrar por userId (usando Query String)

```
<!DOCTYPE html>
<html lang="pt-br">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>fetch</title>
 <style>
   html,
   body {
     font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
     font-size: 16px;
   main {
     width: 51rem;
     margin: 1rem auto;
    input[type="number"],
   button {
     text-align: right;
     padding: 0.5rem;
    input[type="number"] {
     width: 10rem;
     margin-bottom: 0.5rem;
```

```
button {
    margin-bottom: 0.5rem;
  #resp {
   padding: 0.5rem;
   background-color: orangered;
   color: white;
   width: 50rem;
  .campo {
   color: yellow;
   font-weight: bold;
</style>
<script>
  function imprime(objeto) {
   var mensagem;
   objeto.forEach(function (obj) {
      mensagem +=
      <br>
        <br>
        "<span class='campo'>id</span>": ${obj.id},
        "<span class='campo'>userId</span>": ${obj.userId},
        "<span class='campo'>title</span>": ${obj.title},
        "<span class='campo'>body</span>": ${obj.body}
        <br>
      <br>>`
    });
   return mensagem;
  async function filtrarPostagens(id) {
    fetch(`https://jsonplaceholder.typicode.com/posts?userId=${id}`)
      .then((response) => response.json())
      .then((json) => {
        console.log(json);
        respjson.innerHTML = imprime(json);
```

### **Exercícios**

Usando HTML, CSS e JS:

- 1) A partir dos exemplos apresentados, crie **uma única** página Web que permita o usuário ler, postar, atualizar, modificar, remover e filtrar postagens.
- 2) Usando a API do ViaCep (<a href="https://viacep.com.br/">https://viacep.com.br/</a>), crie uma página Web que permita o usuário realizar consultas.
- 3) Usando a API DummyJSON (<a href="https://dummyjson.com/">https://dummyjson.com/</a>), crie uma página Web que permita o usuário realizar consultas.
- 4) Usando "The Star Wars API" (SWAPI) (<a href="https://swapi.dev/">https://swapi.dev/</a>), crie uma página Web que permita o usuário realizar consultas.
- 5) Escreva sobre o cliente HTTP Axios: https://axios-http.com/docs/intro

## Links:

https://developer.mozilla.org/pt-BR/docs/Web/API/Fetch API/Using Fetch https://jsonplaceholder.typicode.com/

https://jsonplaceholder.typicode.com/guide/

https://viacep.com.br/

https://dummyjson.com/

https://swapi.dev/

https://pipedream.com/apps/swapi

https://axios-http.com/docs/intro