

# **Escola Superior de Tecnologia e Gestão**

## **Licenciatura em Engenharia Informática**

### **Sistemas Distribuídos**

**Ano Letivo 2021/22**

### **Ficha 9**

**Elaborado em: 2022/05/11**

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## Índice

List of Figures .....	ii
1. Exercício 1 .....	1

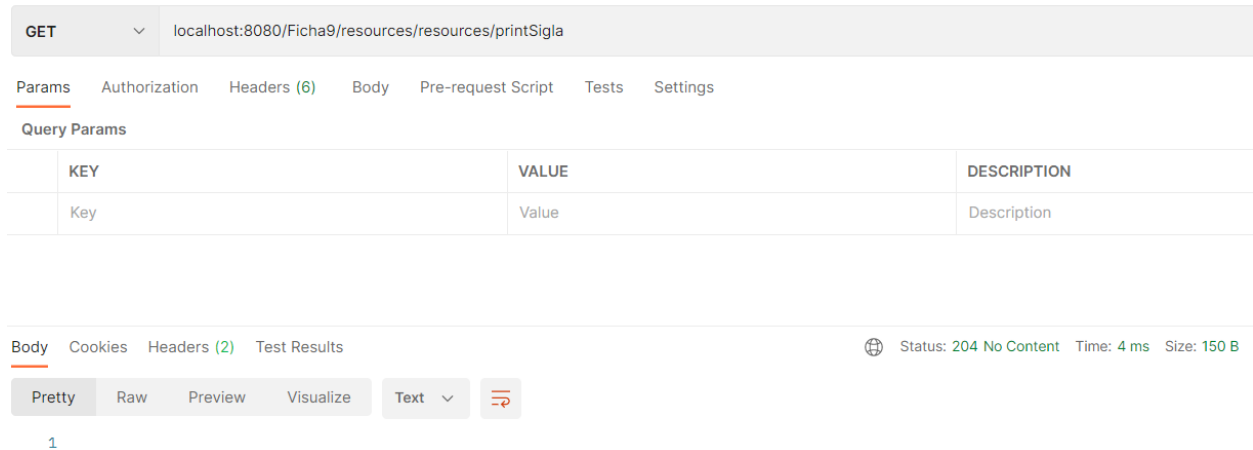
## List of Figures

FIGURA 1 - PRINTSIGLA VAZIO .....	1
FIGURA 2 - PRINTACAO VAZIO .....	1
FIGURA 3 - DELETEACAO VAZIO .....	2
FIGURA 4 - ALTERARACAO VAZIO.....	2
FIGURA 5 – ADDACAO .....	3
FIGURA 6 - ADDACAO CONFLICT .....	3
FIGURA 7 – PRINTSIGLA.....	4
FIGURA 8 - PRINTACAO .....	4
FIGURA 9 – ALTERARACAO.....	5
FIGURA 10 - PRINTACAO SIGLA B ALTERADA.....	5
FIGURA 11 - DELETEACAO B.....	6
FIGURA 12 - PRINTACAO SIGLA B APAGADA .....	6
FIGURA 13 - PRINTSIGLA (APENAS EXISTE A SIGLA V).....	7

## 1. Exercício 1

### Execução do programa:

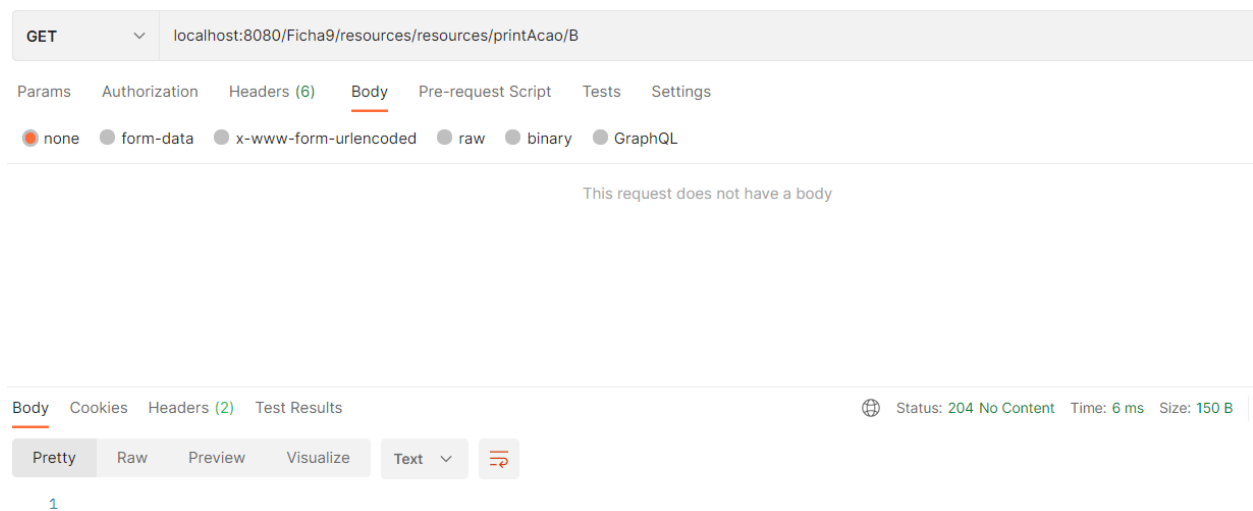
Primeiro testei os pedidos sem nenhum conteúdo no ArrayList:



The screenshot shows a REST client interface with a GET request to `localhost:8080/Ficha9/resources/resources/printSigla`. The response is empty (204 No Content). The interface includes tabs for Params, Authorization, Headers (6), Body, Pre-request Script, Tests, and Settings. The Body tab is selected, showing a table with columns KEY, VALUE, and DESCRIPTION. The table contains one row with Key, Value, and Description. The response status is 204 No Content, Time: 4 ms, Size: 150 B.

KEY	VALUE	DESCRIPTION
Key	Value	Description

Figura 1 - PrintSigla vazio



The screenshot shows a REST client interface with a GET request to `localhost:8080/Ficha9/resources/resources/printAcao/B`. The response is empty (204 No Content). The interface includes tabs for Params, Authorization, Headers (6), Body, Pre-request Script, Tests, and Settings. The Body tab is selected, showing a table with columns KEY, VALUE, and DESCRIPTION. The table contains one row with Key, Value, and Description. The response status is 204 No Content, Time: 6 ms, Size: 150 B.

KEY	VALUE	DESCRIPTION
Key	Value	Description

Figura 2 - PrintAcao vazio

DELETE localhost:8080/Ficha9/resources/resources/deleteAcao/B

Params Authorization Headers (6) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

This request does not have a body

---

Body Cookies Headers (5) Test Results Status: 404 Not Found Time: 9 ms Size: 1.23 KB

Pretty Raw Preview Visualize HTML

```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
2 <html xmlns="http://www.w3.org/1999/xhtml">
3
```

Figura 3 - DeleteAcao vazio

PUT localhost:8080/Ficha9/resources/resources/alterarAcao/B

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	nome	B	
<input checked="" type="checkbox"/>	valor	30	
	Key	Value	Description

---

Body Cookies Headers (5) Test Results Status: 404 Not Found Time: 17 ms Size: 1.23 KB

Pretty Raw Preview Visualize HTML

Figura 4 - AlterarAcao vazio

Depois adicionei uma ação através do POST:

POST localhost:8080/Ficha9/resources/resources/addAcao

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data **x-www-form-urlencoded** raw binary GraphQL

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	nome	b	
<input checked="" type="checkbox"/>	sigla	B	
<input checked="" type="checkbox"/>	valor	20	
	Key	Value	Description

Body Cookies Headers (3) Test Results Status: 202 Accepted Time: 9 ms Size: 167 B

Pretty Raw Preview Visualize Text 1

Figura 5 – AddAcao

Adicionei outra ação com sigla V e voltei a tentar adicionar uma ação com a sigla B:

POST localhost:8080/Ficha9/resources/resources/addAcao

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data **x-www-form-urlencoded** raw binary GraphQL

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	nome	b	
<input checked="" type="checkbox"/>	sigla	B	
<input checked="" type="checkbox"/>	valor	20	
	Key	Value	Description

Body Cookies Headers (5) Test Results Status: 409 Conflict Time: 4 ms Size: 1.28 KB

Figura 6 - AddAcao conflict

Deu o erro correto para Siglas repetidas.

Depois dei print às ações das siglas existentes:

GET localhost:8080/Ficha9/resources/resources/printSigla

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (4) Test Results Status: 200 OK Time: 9 ms Size: 191 B

Pretty Raw Preview Visualize Text

```
1
2 B
3 V
```

Figura 7 – PrintSigla

Depois procurei pela a ação com Sigla B:

GET localhost:8080/Ficha9/resources/resources/printAcao/B

Params Authorization Headers (6) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

This request does not have a body

Body Cookies Headers (4) Test Results Status: 200 OK Time: 7 ms Size: 221 B

Pretty Raw Preview Visualize Text

```
1 Acao{nome=b, sigla=B, valor=20.0}
```

Figura 8 - PrintAcao

A seguir alterei a ação B:

PUT localhost:8080/Ficha9/resources/resources/alterarAcao/B

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data **x-www-form-urlencoded** raw binary GraphQL

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	nome	B	
<input checked="" type="checkbox"/>	valor	30	
	Key	Value	Description

Body Cookies Headers (3) Test Results

Status: 202 Accepted Time: 6 ms Size: 167 B

Figura 9 – AlterarAcao

Depois verifiquei se a ação com sigla B tinha sido alterada:

GET localhost:8080/Ficha9/resources/resources/printAcao/B

Params Authorization Headers (6) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

This request does not have a body

Body Cookies Headers (4) Test Results

Status: 200 OK Time: 6 ms Size: 221 B

Pretty Raw Preview Visualize Text

```
1 {"acao":{"nome":"B","sigla":"B","valor":"30.0"}}
```

Figura 10 - PrintAcao Sigla B alterada

A ação foi alterada corretamente.



Depois apaguei a ação com sigla B:

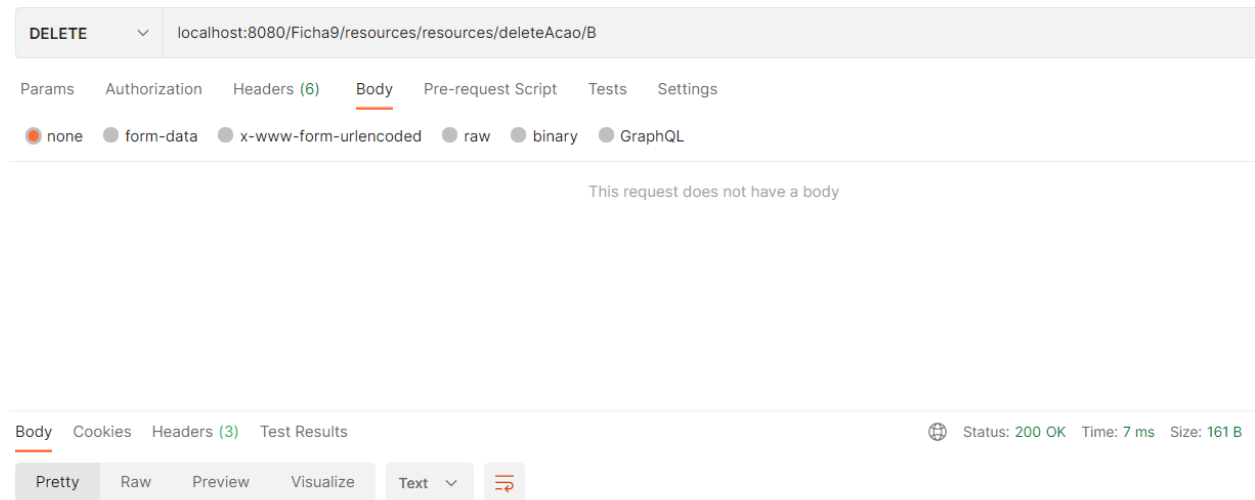


Figura 11 - DeleteAcao B

A seguir certifiquei-me se a ação com sigla B tinha sido apagada:

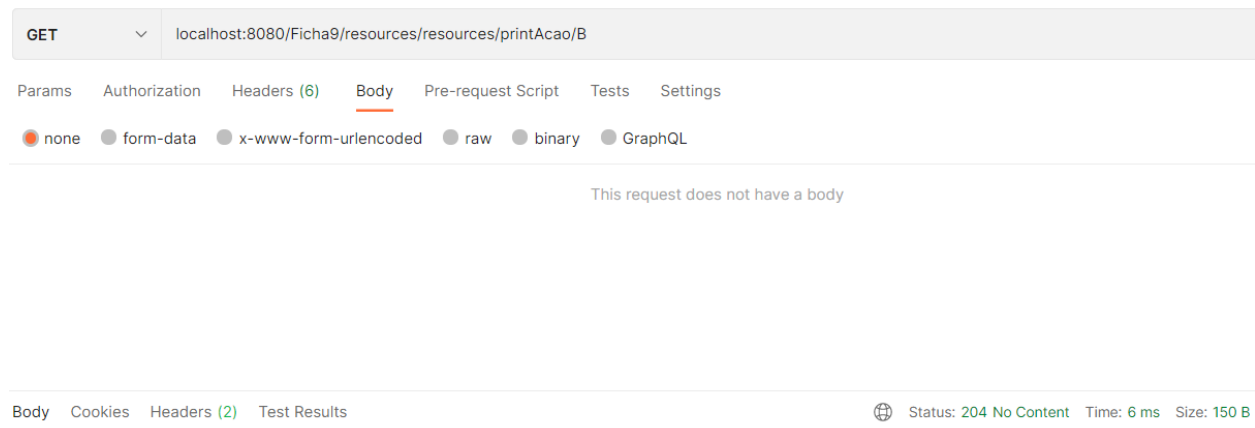


Figura 12 - PrintAcao Sigla B apagada

Sim foi apagada corretamente (No Content).

Por fim certifiquei-me que a sigla B já não existia do arrayList:

The screenshot displays a REST client interface. At the top, a GET request is configured to `localhost:8080/Ficha9/resources/resources/printSigla`. Below the request bar, the 'Params' tab is active, showing a table with one parameter:

KEY	VALUE	DESCRIPTION
Key	Value	Description

Below the parameters, the 'Body' tab is active, showing the response status as 200 OK, with a time of 10 ms and a size of 189 B. The response body is displayed in a text format, showing a list with one element:

```
1  
2 V
```

Figura 13 - PrintSigla (apenas existe a sigla V)

Sigla B foi apagada corretamente.