

Banco de dados - Avaliação _07

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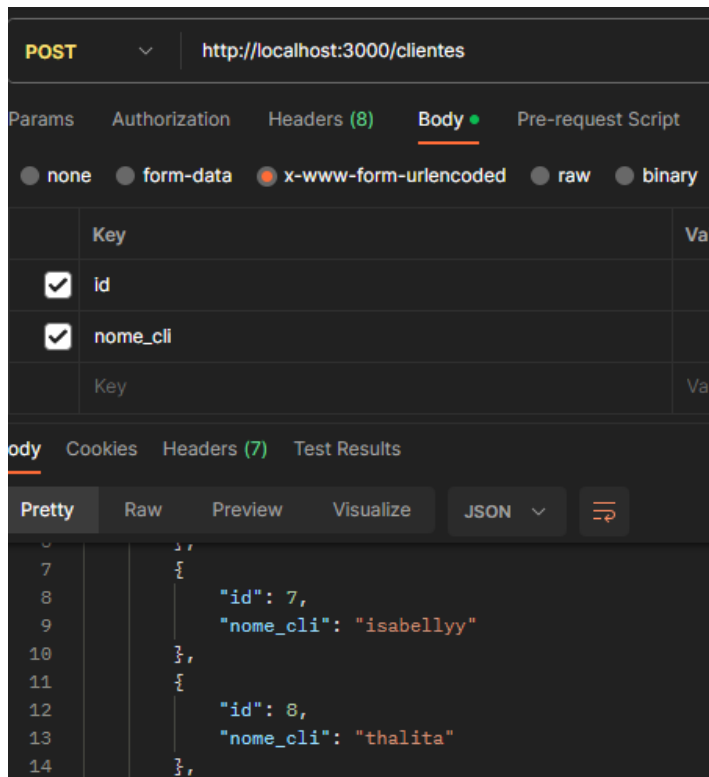
Turma: Informática - P4

Criar uma aplicação Node.js que usa Funcionalidades CRUD (insert, select, update, delete) usando REST API. A Aplicação que usa um Banco de Dados SQLite3 usará o Modelo Entidade Relacionamento anexo. Evidenciar o teste das chamadas das API usando o PostMan.

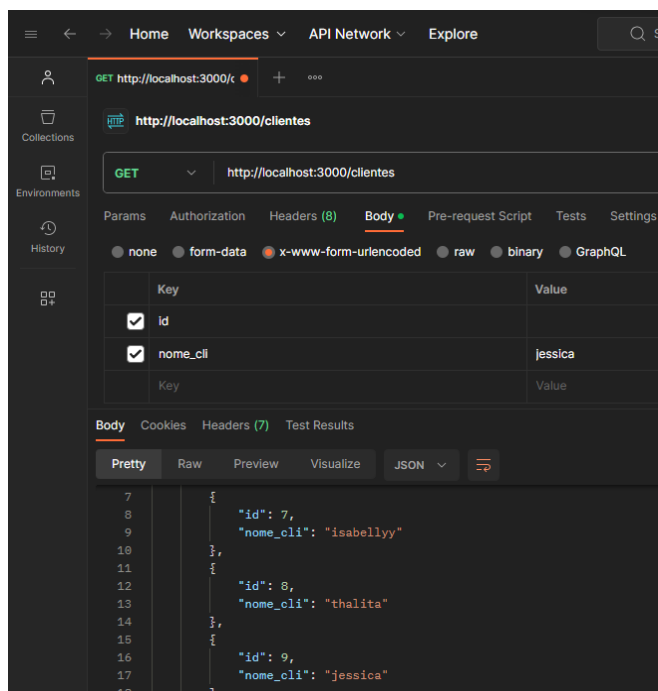
POST(create), GET(read), PUT(update), DELETE(delete)

TB_CLIENTES

POST



GET



PUT

The screenshot shows a REST client interface with a sidebar on the left containing icons for Home, Workspaces, API Network, Explore, Collections, Environments, History, and a grid icon. The main area displays a PUT request to `http://localhost:3000/clientes/9`. The request is configured with the following parameters:

- Method: PUT
- URL: `http://localhost:3000/clientes/9`
- Body Type: `x-www-form-urlencoded` (selected)
- Body Content:

Key	Value
<input checked="" type="checkbox"/> id	
<input checked="" type="checkbox"/> nome_cli	carlos
Key	Value

The response body is displayed in the 'Body' tab, showing a JSON message:

```
1 {
2   "message": "Cliente atualizado com sucesso"
3 }
```

The screenshot shows a REST client interface displaying a GET request to `http://localhost:3000/clientes/9`. The request is configured with the following parameters:

- Method: GET
- URL: `http://localhost:3000/clientes/9`
- Body Type: `x-www-form-urlencoded` (selected)

The response body is displayed in the 'Body' tab, showing a JSON object:

```
1 {
2   "cliente": {
3     "id": 9,
4     "nome_cli": "carlos"
5   }
6 }
```

DELETE

DEL http://localhost:3000/c

HTTP http://localhost:3000/clientes/9

DELETE http://localhost:3000/clientes/9

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

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

	Key
<input checked="" type="checkbox"/>	id
<input checked="" type="checkbox"/>	nome_cli
	Key

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Cliente excluído com sucesso"
3 }
```

TB_PRODUTOS

GET

GET http://localhost:3000/

HTTP http://localhost:3000/produtos

GET http://localhost:3000/produtos

Params Authorization Headers (8) **Body** Pre-request Script Test Results

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




	Key	Value
<input checked="" type="checkbox"/>	id	
<input checked="" type="checkbox"/>	descricao	
<input checked="" type="checkbox"/>	preco_unitario	
	Key	Value


Body Cookies Headers (7) Test Results


Pretty Raw Preview Visualize JSON


```
1 {
2   "produtos": []
3 }
```

POST

POST http://localhost:3000/   

 http://localhost:3000/produtos



POST  http://localhost:3000/produtos

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




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


<input checked="" type="checkbox"/>	id	100
<input checked="" type="checkbox"/>	descricao	feijão
<input checked="" type="checkbox"/>	preco_unitario	5,00
	Key	Value


Body Cookies Headers (7) Test Results


Pretty Raw Preview Visualize JSON  

```
1 {  
2   "message": "Produto criado com sucesso"  
3 }
```

GET http://localhost:3000/   

 http://localhost:3000/produtos



GET  http://localhost:3000/produtos

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

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

<input checked="" type="checkbox"/>	id	100
<input checked="" type="checkbox"/>	descricao	feijão
<input checked="" type="checkbox"/>	preco_unitario	5,00
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON  

```
1 {  
2   "produtos": [  
3     {  
4       "id": 100,  
5       "descricao": "feijão",  
6       "preco_unitario": "5,00"  
7     }  
8   ]  
9 }
```

PUT

PUT http://localhost:3000/...

HTTP **http://localhost:3000/produtos/100**

PUT **http://localhost:3000/produtos/100**

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

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

<input checked="" type="checkbox"/>	id	
<input checked="" type="checkbox"/>	descricao	
<input checked="" type="checkbox"/>	preco_unitario	7,00
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {  
2   "message": "Produto atualizado com sucesso"  
3 }
```

DELETE

DEL http://localhost:3000/...

HTTP **http://localhost:3000/produtos/100**

DELETE **http://localhost:3000/produtos/100**

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

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

<input checked="" type="checkbox"/>	id	
<input checked="" type="checkbox"/>	descricao	feijão
<input checked="" type="checkbox"/>	preco_unitario	7,00
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {  
2   "message": "Produto excluído com sucesso"  
3 }
```

TB_NOTASFISCAIS

GET

GET http://localhost:3000/r

HTTP http://localhost:3000/notasfiscais

GET http://localhost:3000/notasfiscais

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

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary

Key

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "notasfiscais": []
3 }
```

POST

POST http://localhost:3000,

HTTP http://localhost:3000/notasfiscais

POST http://localhost:3000/notasfiscais

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

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

	Key	Value
<input checked="" type="checkbox"/>	Id	5
<input checked="" type="checkbox"/>	valor	50,00
<input checked="" type="checkbox"/>	cliente_id	7
<input checked="" type="checkbox"/>	vendedor_id	2
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Nota Fiscal criada com sucesso"
3 }
```

GET http://localhost:3000/r

HTTP http://localhost:3000/notasfiscais

GET http://localhost:3000/notasfiscais

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

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

	Key	Value
<input checked="" type="checkbox"/>	id	5
<input checked="" type="checkbox"/>	valor	50,00
<input checked="" type="checkbox"/>	cliente_id	7
<input checked="" type="checkbox"/>	vendedor_id	2
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 [
2   "notasfiscais": [
3     {
4       "id": 5,
5       "valor": "50,00",
6       "cliente_id": 7,
7       "vendedor_id": 2
8     }
9   ]
10 ]
```

PUT

PUT http://localhost:3000/r

HTTP http://localhost:3000/notasfiscais/5

PUT http://localhost:3000/notasfiscais/5

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

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

	Key	Value
<input checked="" type="checkbox"/>	id	5
<input checked="" type="checkbox"/>	valor	55,47
<input checked="" type="checkbox"/>	cliente_id	7
<input checked="" type="checkbox"/>	vendedor_id	2
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 [
2   "message": "Nota Fiscal atualizado com sucesso"
3 ]
```

GET http://localhost:3000/r

HTTP http://localhost:3000/notasfiscais/5

GET http://localhost:3000/notasfiscais/5

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

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

	Key	Value
<input checked="" type="checkbox"/>	id	5
<input checked="" type="checkbox"/>	valor	55,47
<input checked="" type="checkbox"/>	cliente_id	7
<input checked="" type="checkbox"/>	vendedor_id	2
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "aluno": {
3     "id": 5,
4     "valor": "55,47",
5     "cliente_id": 7,
6     "vendedor_id": 2
7   }
```

DELETE

DEL http://localhost:3000/n

HTTP http://localhost:3000/notasfiscal/5

DELETE http://localhost:3000/notasfiscal/5

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

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

	Key	Value
--	-----	-------

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Nota Fiscal excluída com sucesso"
3 }
```

TB_VENDEDORES

GET

GET http://localhost:3000/\

HTTP

http://localhost:3000/vendedores

GET

http://localhost:3000/vendedores

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

	Key	Value
	Key	Value

Body

Cookies

Headers (7)

Test Results

Pretty

Raw

Preview

Visualize

JSON

1

2

3

"vendedores": []

POST

POST http://localhost:3000/

HTTP http://localhost:3000/vendedores

POST http://localhost:3000/vendedores

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

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

	Key	Value
<input checked="" type="checkbox"/>	id	
<input checked="" type="checkbox"/>	nome_vend	claudio
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Vendedor criado com sucesso"
3 }
```

GET http://localhost:3000/

HTTP http://localhost:3000/vendedores

GET http://localhost:3000/vendedores

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

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

	Key	Value
<input checked="" type="checkbox"/>	id	
<input checked="" type="checkbox"/>	nome_vend	andressa
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "vendedores": [
3     {
4       "id": 1,
5       "nome_vend": "claudio"
6     },
7     {
8       "id": 2,
9       "nome_vend": "andressa"
10    }
11  ]
12 }
```

PUT

PUT http://localhost:3000/

http://localhost:3000/vendedores/1

PUT http://localhost:3000/vendedores/1

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

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

	Key	Value
<input checked="" type="checkbox"/>	id	
<input checked="" type="checkbox"/>	nome_vend	marley
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Vendedor atualizado com sucesso"
3 }
```

GET http://localhost:3000/

http://localhost:3000/vendedores

GET http://localhost:3000/vendedores

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

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

	Key	Value
<input checked="" type="checkbox"/>	id	
<input checked="" type="checkbox"/>	nome_vend	marley
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "vendedores": [
3     {
4       "id": 1,
5       "nome_vend": "marley"
6     },
7     {
8       "id": 2,
9       "nome_vend": "andressa"
10    }
11  ]
12 }
```

DELETE

DEL http://localhost:3000/v

HTTP http://localhost:3000/vendedores/1

DELETE http://localhost:3000/vendedores/1

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

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

	Key	Value
<input checked="" type="checkbox"/>	id	
<input checked="" type="checkbox"/>	nome_vend	marley
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Vendedor excluído com sucesso"
3 }
```

GET http://localhost:3000/v

HTTP http://localhost:3000/vendedores

GET http://localhost:3000/vendedores

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

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary

	Key
<input checked="" type="checkbox"/>	id
<input checked="" type="checkbox"/>	nome_vend
	Key

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "vendedores": [
3     {
4       "id": 2,
5       "nome_vend": "andressa"
6     }
7   ]
8 }
```

TB_ITENSNOTASFISCAIS

GET

The screenshot shows a REST client interface with a GET request to `http://localhost:3000/itensnotasfiscais`. The request body is set to `x-www-form-urlencoded` and contains the following parameters:

	Key	Value
<input checked="" type="checkbox"/>	id	1
<input checked="" type="checkbox"/>	notafiscal_id	150
<input checked="" type="checkbox"/>	quantidade	3
<input checked="" type="checkbox"/>	valor_item	7,00
<input checked="" type="checkbox"/>	produto_id	100

The response body is shown in JSON format:

```
1 {  
2   "itensnotasfiscais": []  
3 }
```

POST

POST http://localhost:3000, ●

+ ...



http://localhost:3000/itensnotasfiscais

POST



http://localhost:3000/itensnotasfiscais

Params

Authorization

Headers (8)

Body ●

Pre-request Script

Tests

Se

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

	Key	Value
<input checked="" type="checkbox"/>	id	1
<input checked="" type="checkbox"/>	notafiscal_id	150
<input checked="" type="checkbox"/>	quantidade	3
<input checked="" type="checkbox"/>	valor_item	7,00
<input checked="" type="checkbox"/>	produto_id	100

Body Cookies Headers (7) Test Results

Pretty

Raw

Preview

Visualize

JSON ▼



```
1 {
2   "message": "item fiscal criado com sucesso"
3 }
```

GET http://localhost:3000/i

HTTP

http://localhost:3000/itensnotasfiscais/1

GET

http://localhost:3000/itensnotasfiscais/1

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

	Key	Value
<input checked="" type="checkbox"/>	id	1
<input checked="" type="checkbox"/>	notafiscal_id	150
<input checked="" type="checkbox"/>	quantidade	3
<input checked="" type="checkbox"/>	valor_item	7,00
<input checked="" type="checkbox"/>	produto_id	100

Body

Cookies

Headers (7)

Test Results

Pretty

Raw

Preview

Visualize

JSON

```
1 {}
2 "itens": {
3   "id": 1,
4   "notafiscal_id": 150,
5   "quantidade": 3,
6   "valor_item": "7,00",
7   "produto_id": 100,
8   "unidade": "kg"
9 }
```

PUT

PUT http://localhost:3000/ × + ...

http://localhost:3000/itensnotasfiscais/1

PUT http://localhost:3000/itensnotasfiscais/1

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

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

<input checked="" type="checkbox"/>	notafiscal_id	151
<input checked="" type="checkbox"/>	quantidade	5
<input checked="" type="checkbox"/>	valor_item	15,00
<input checked="" type="checkbox"/>	produto_id	8
<input checked="" type="checkbox"/>	unidade	kg
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Item Nota Fiscal atualizado com sucesso"
3 }
```

DELETE

DEL http://localhost:3000/it × + ...

http://localhost:3000/itensnotasfiscais/2

DELETE http://localhost:3000/itensnotasfiscais/2

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

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

<input checked="" type="checkbox"/>	produto_id	8
<input checked="" type="checkbox"/>	unidade	kg
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Item Nota Fiscal excluído com sucesso"
3 }
```