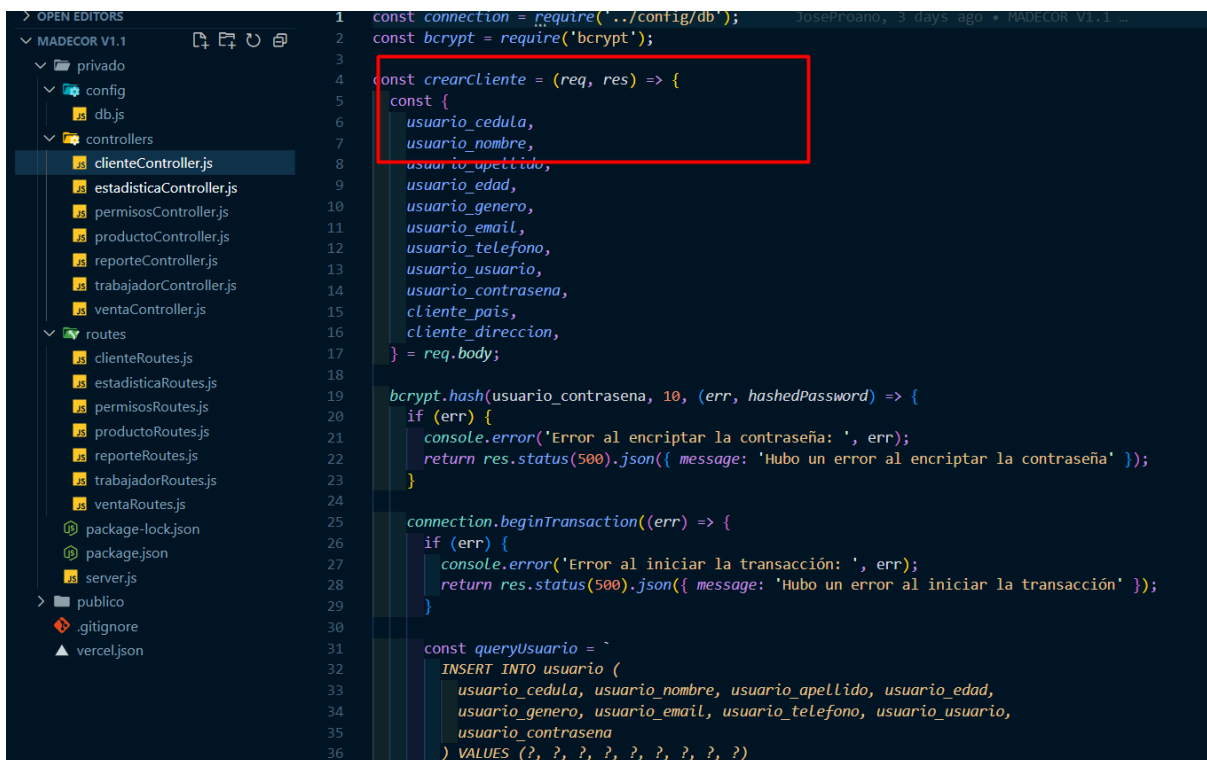


## Clean Code



## Team 6

Leader: Jose Sanmartín

TName: HTMLHeroes

Project: NatuLove

GitHub: <https://github.com/SanmartinJose/AWD22962024HTMLHeroes.git>

DB:

Inspector Team: 5      Leader: Proaño Jose

16. Salcedo Micaela

17. Sanmartin Jose

18. Suarez Matias

19. Villaroel Justin

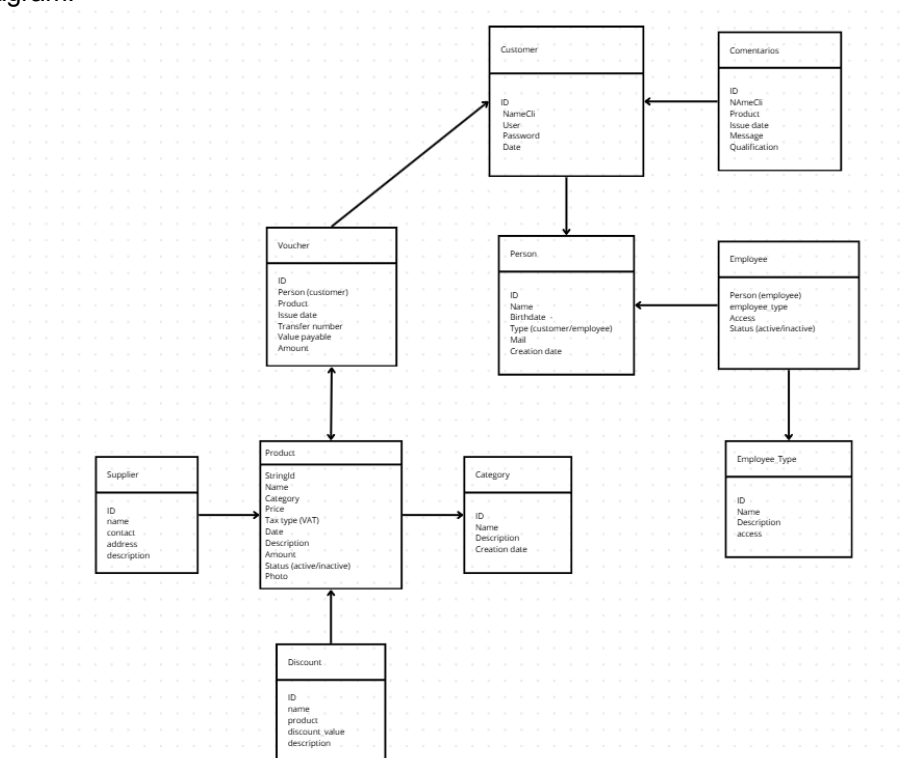
Item	Eval	Rubric	Comments
1. GitHub	90/100	commits and code	Some team members have less commits than others.
2. Class Diagram:	9/10	at least 10 classes, 0.5 point per class (attributes and method), relations. -0.1 no operations, -0.1 bad names -0.1 no nouns for class names  0.5 per relation	No operations
3. UC Diagram:	8/10	At least 10 actions, 1 per use case	Login, reports, product and payment are not verbs. No system.
4. URIs (Doc)	25/30	50 URIs, 0.6 per URI: Method, URI, req, resp, Description	Business rules and some apis not working
5. CRUD Operations	8.4/10	50 CRUD URIs working	8 uris not working correctly
6. Functionality (business rules)	16/20	Run the project, every URI that works for CRUD is word .25 Every business rule → 1	
7. Clean code (MVC)	18/20	Pitfalls	Comments in spanish. Comments in english.
TOTAL	174.4/200		

Evidence

1. GitHub



## 2. Class Diagram:



## 3. UC Diagram:



#### 4. URIs (Doc)

Avoices:

GET: <https://natulove-api.onrender.com/avoices> 0.6

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <https://natulove-api.onrender.com/avoices>
- Status:** 200 OK
- Time:** 2.16 s
- Size:** 781 B
- Response Format:** JSON

```

1 [
2   {
3     "id_avoice": "P0002",
4     "id_client": 9,
5     "id_sale": "P0002",
6     "issue_date": "2025-01-23T00:00:00.000Z",
7     "total_amount": "11.00",
8     "payment_status": "Pendiente",
9     "notification_sent": 0
10  },
11  {
12    "id_avoice": "P0003",
13    "id_client": 9,
14    "id_sale": "P0003",
15    "issue_date": "2025-01-23T00:00:00.000Z",
16    "total_amount": "58.50",
  
```

POST: <https://natulove-api.onrender.com/avoices/post> 0.6

POST

https://natulove-api.onrender.com/avoices/post

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

2

3

4

5

6

7

8

9

10

11

12

13

14

1

2

3

4

201 Created

1.52 s

480 B

<input type="checkbox"/>	Edit	Copy	Delete	P0024	5	S0002	2025-01-24	20.50	Pendiente	0
--------------------------	------	------	--------	-------	---	-------	------------	-------	-----------	---

PUT: <https://natulove-api.onrender.com/avoices/put/P0023> 0.6

<input type="checkbox"/>	Edit	Copy	Delete	P0023	26	P0021	2025-01-26	5.49	Cancelado	0
--------------------------	------	------	--------	-------	----	-------	------------	------	-----------	---

PUT

https://natulove-api.onrender.com/avoices/put/P0023

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

2

3

4

5

6

7

8

9

10

11

12

13

14

1

2

3

200 OK

791 ms

471 B

<input type="checkbox"/>	Edit	Copy	Delete	P0023	22	S0003	2025-01-25	35.50	Cancelado	1
--------------------------	------	------	--------	-------	----	-------	------------	-------	-----------	---

DELETE: <https://natulove-api.onrender.com/avoices/delete/P0023> 0.6

DELETE

https://natulove-api.onrender.com/avoices/delete/P0023

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

2

3

4

5

6

7

8

9

10

11

12

13

14

1

2

3

200 OK

598 ms

470 B

<input type="checkbox"/>	Edit	Copy	Delete	P0022	23	P0020	2025-01-24	5.49	Pendiente	0
<input type="checkbox"/>	Edit	Copy	Delete	P0024	5	S0002	2025-01-24	20.50	Pendiente	0

Category:

GET: <https://natulove-api.onrender.com/categories> 0.6

GET

https://natulove-api.onrender.com/categories

Send

Params

Authorization

Headers (7)

Body

Scripts

Settings

Query Params

Key	Value	Description	...	Bulk Edit
Key	Value	Description		

Body

Cookies

Headers (14)

Test Results

200 OK

628 ms

727 B

...

JSON

Preview

Visualize

```
1 [
2   {
3     "id_category": 2,
4     "creation_date": "2025-01-24T00:00:00.000Z",
5     "name": "Dulces",
6     "description": "La mejor categoria del mundo."
7   },
8   {
9     "id_category": 3,
10    "creation_date": "2025-01-24T00:00:00.000Z",
11    "name": "Planta Medicinal",
12    "description": "Categoria referente a producto naturales como plantas medicinales."
13  },
14  {
15    "id_category": 4,
16    "creation_date": "2025-01-25T00:00:00.000Z",
```

POST: <https://natulove-api.onrender.com/categories/post> 0.6

POST

https://natulove-api.onrender.com/categories/post

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Beautify

```
1 {
2   "id_category": 0,
3   "creation_date": "2025-01-25",
4   "name": "Dulces",
5   "description": "Esta es una descripción de ejemplo."
6 }
7
8
9
10
11 }
```

Body

Cookies

Headers (14)

Test Results

201 Created

424 ms

482 B

...

JSON

Preview

Visualize

```
1 {
2   "message": "Categoria agregada exitosamente",
3   "id": 8
4 }
```

<input type="checkbox"/>	Edit	Copy	Delete	8	2025-01-25	Dulces	Esta es una descripción de ejemplo.
	<input type="checkbox"/> Check all	With selected:	Edit	Copy	Delete	Export	

PUT: <https://natulove-api.onrender.com/categories/put/7> 0.6

<input type="checkbox"/>	Edit	Copy	Delete	7	2025-01-25	Combos	Categoria de combos.
--------------------------	------	------	--------	---	------------	--------	----------------------

PUT

https://natulove-api.onrender.com/categorias/put/7

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

{

2

3

4

5

6

7

8

9

10

11

"id\_categoria": 7,

"creation\_date": "2025-01-24",

"name": "Combos Put",

"description": "Esta es una descripción de ejemplo de put."

}

Body

Cookies

Headers (14)

Test Results

200 OK

615 ms

474 B

JSON

Preview

Visualize

1

2

3

{

"message": "Categoría actualizada exitosamente"

}

<input type="checkbox"/>	Edit	Copy	Delete	7	2025-01-24	Combos Put	Esta es una descripción de ejemplo de put.
--------------------------	------	------	--------	---	------------	------------	--------------------------------------------

DELETE: <https://natulove-api.onrender.com/categorias/delete/7> 0.6

<input type="checkbox"/>	Edit	Copy	Delete	6	2025-01-25	Chocolate	Categoría de uno de los mejores inventos de la hum...
<input type="checkbox"/>	Edit	Copy	Delete	7	2025-01-24	Combos Put	Esta es una descripción de ejemplo de put.
<input type="checkbox"/>	Edit	Copy	Delete	8	2025-01-25	Dulces	Esta es una descripción de ejemplo.

DELETE

https://natulove-api.onrender.com/categorias/delete/7

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

2

3

4

5

6

7

8

9

10

11

"id\_categoria": 7,

"creation\_date": "2025-01-24",

"name": "Combos Put",

"description": "Esta es una descripción de ejemplo de put."

}

Body

Cookies

Headers (14)

Test Results

200 OK

607 ms

473 B

JSON

Preview

Visualize

1

2

3

{

"message": "Categoría eliminada exitosamente"

}

<input type="checkbox"/>	Edit	Copy	Delete	6	2025-01-25	Chocolate	Categoría de uno de los mejores inventos de la hum...
<input type="checkbox"/>	Edit	Copy	Delete	8	2025-01-25	Dulces	Esta es una descripción de ejemplo.

Comentary:

GET: <https://natulove-api.onrender.com/comentarios> 0.6

GET

https://natulove-api.onrender.com/comentarios

Send

Params

Authorization

Headers (7)

Body

Scripts

Settings

Query Params

Key	Value	Description
Key	Value	Description

Body

Cookies

Headers (14)

Test Results

200 OK

449 ms

738 B

JSON

Preview

Visualize

```
1 [
2   {
3     "id": 4,
4     "product_id": "NL8317",
5     "user_id": 1,
6     "rating": 4,
7     "comment": "Este producto es excelente, me encantó.",
8     "created_at": "2023-01-24T12:34:56.000Z"
9   },
10  {
11    "id": 6,
12    "product_id": "NL8317",
13    "user_id": 2,
14    "rating": 4,
15    "comment": "Este producto es muy bueno",
16    "created_at": "2023-01-26T12:34:56.000Z"
17  }
18 ]
```

POST: <https://natulove-api.onrender.com/comentarios/post> 0.6

POST

https://natulove-api.onrender.com/comentarios/post

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Body

Cookies

Headers (14)

Test Results

201 Created

436 ms

482 B

JSON

Preview

Visualize

```
1 {
2   "id": 0,
3   "product_id": "NL8317",
4   "user_id": 1,
5   "rating": 4,
6   "comment": "Este producto es excelente, me encantó.",
7   "created_at": "2023-01-24 12:34:56"
8 }
```

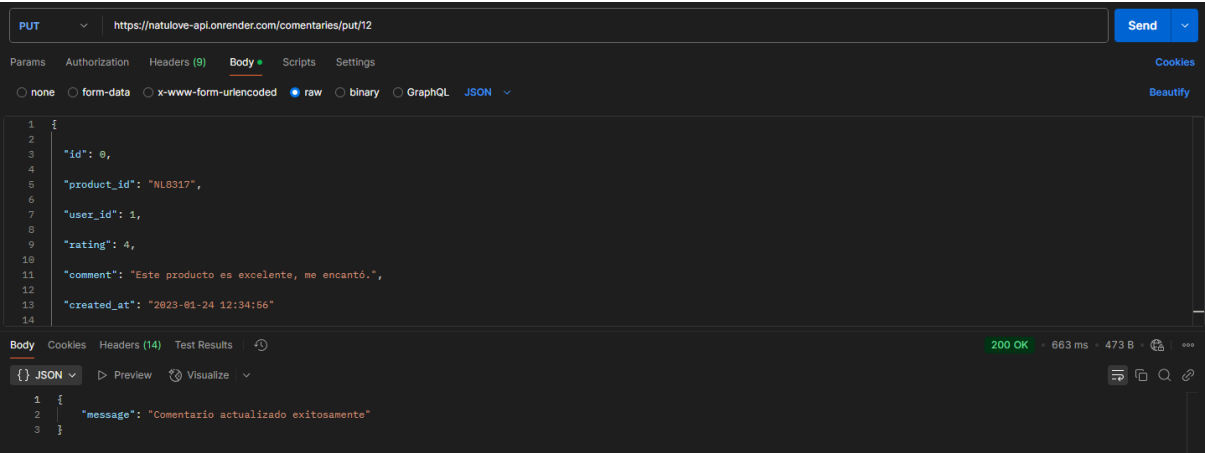
```
1 {
2   "message": "Comentario agregado exitosamente",
3   "id": 18
4 }
```

<input type="checkbox"/>	Edit	Copy	Delete	18 NL8317	1	4 Este producto es excelente, me encantó.	2023-01-24 12:34:56
	<input type="checkbox"/> Check all	With selected:	Edit	Copy	Delete	Export	

PUT: <https://natulove-api.onrender.com/comentarios/put/12> 0.6

<input type="checkbox"/>	Edit	Copy	Delete	12 NL1112	9	5 Me encanto este producto	2025-03-30 10:31:56
--------------------------	------	------	--------	-----------	---	----------------------------	---------------------

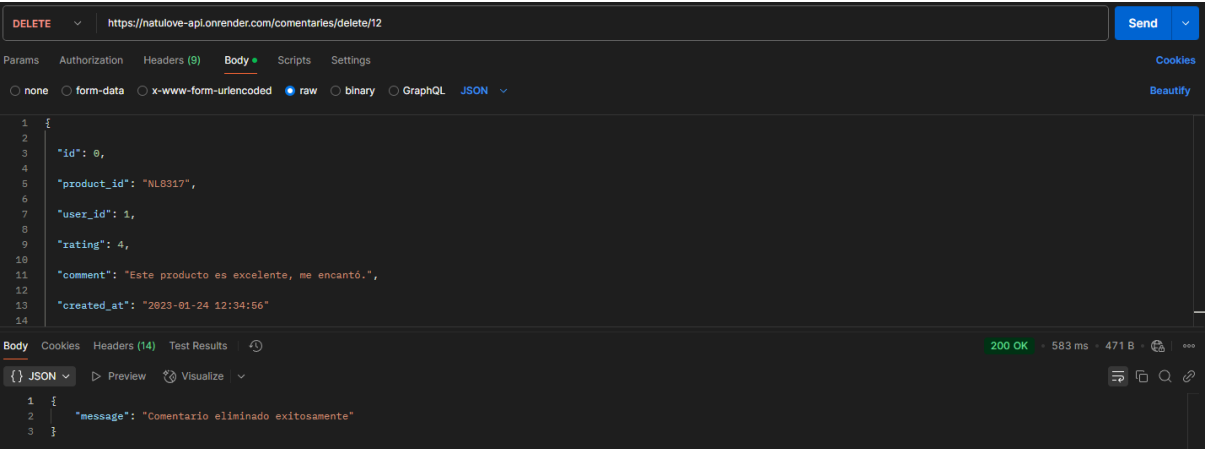




<input type="checkbox"/>	Edit Copy Delete	12 NL8317	1	4 Este producto es excelente, me encantó.	2023-01-24 12:34:56
--------------------------	------------------	-----------	---	-------------------------------------------	---------------------

DELETE: <https://natulove-api.onrender.com/comentarios/delete/12> 0.6

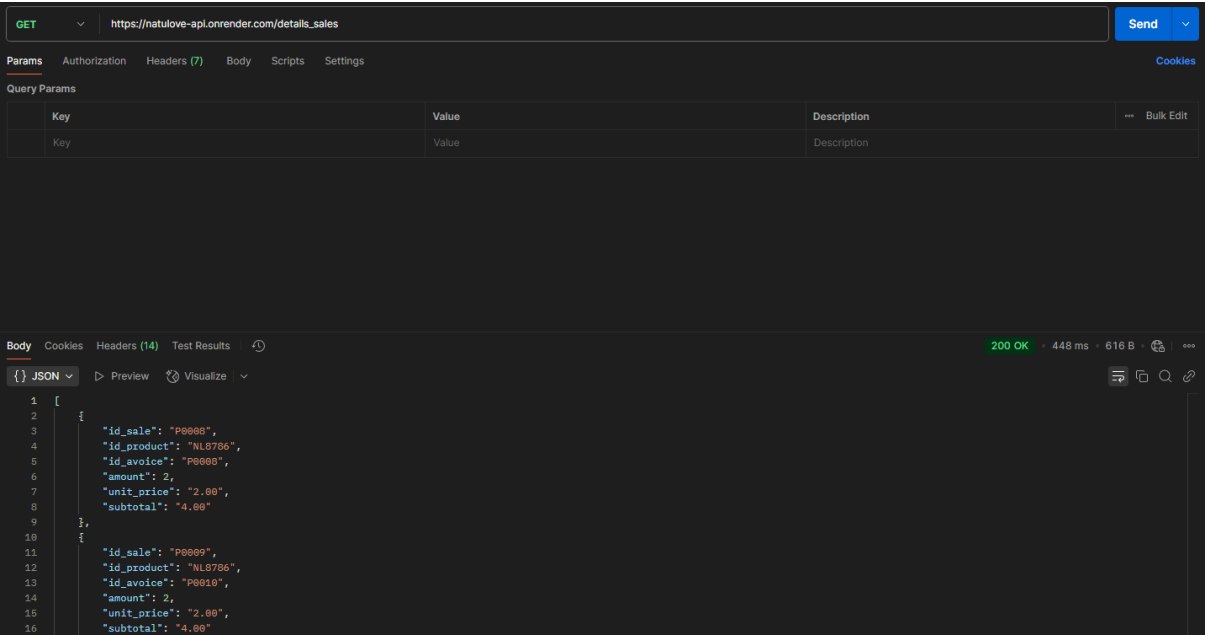
<input type="checkbox"/>	Edit Copy Delete	11 NL8786	3	5 Me encanto este producto	2023-01-30 11:41:56
<input type="checkbox"/>	Edit Copy Delete	12 NL8317	1	4 Este producto es excelente, me encantó.	2023-01-24 12:34:56
<input type="checkbox"/>	Edit Copy Delete	14 NL8317	26	4 No era lo que esperaba, pero estaba decente, pdt m...	2023-07-26 12:34:56



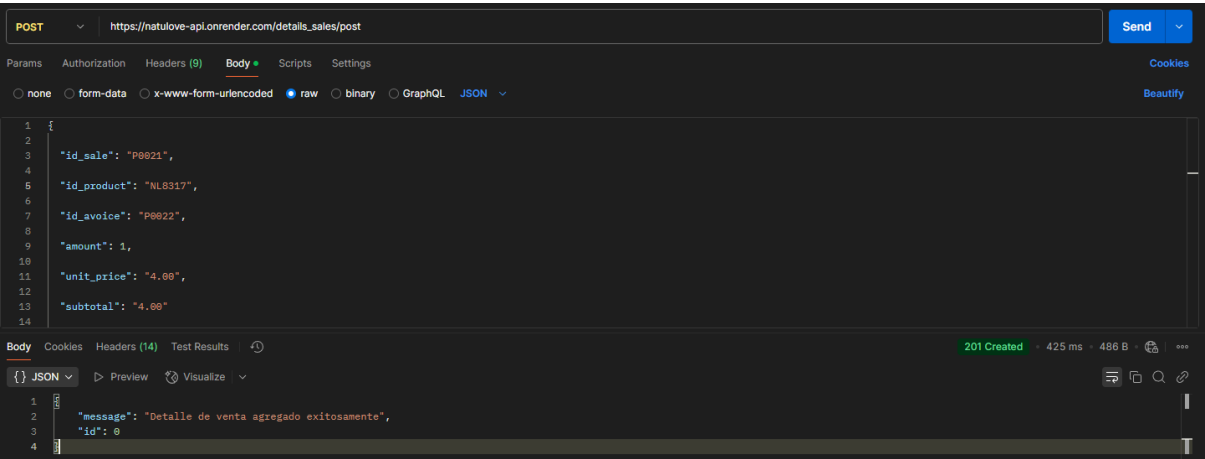
<input type="checkbox"/>	Edit Copy Delete	11 NL8786	3	5 Me encanto este producto	2023-01-30 11:41:56
<input type="checkbox"/>	Edit Copy Delete	14 NL8317	26	4 No era lo que esperaba, pero estaba decente, pdt m...	2023-07-26 12:34:56

Details\_sales:

GET: [https://natulove-api.onrender.com/details\\_sales](https://natulove-api.onrender.com/details_sales) 0.6



POST: [https://natulove-api.onrender.com/details\\_sales/post](https://natulove-api.onrender.com/details_sales/post) 0.6



<input type="checkbox"/>	Edit	Copy	Delete	P0021	NL8317	P0022	1	4.00	4.00
	<input type="checkbox"/> Check all	With selected:		Edit	Copy	Delete	Export		

PUT: [https://natulove-api.onrender.com/details\\_sales/put/P0021/NL8317](https://natulove-api.onrender.com/details_sales/put/P0021/NL8317) 0.6

<input type="checkbox"/>	Edit	Copy	Delete	P0021	NL8317	P0022	1	4.00	4.00
	<input type="checkbox"/> Check all	With selected:		Edit	Copy	Delete	Export		

PUThttps://natulove-api.onrender.com/details\_sales/put/P0021/NL8317Send

ParamsAuthorizationHeaders (9)BodyScriptsSettingsCookiesBeautify

noneform-datax-www-form-urlencodedrawbinaryGraphQLJSON

```
1 {
2   "id_sale": "P0021",
3   "id_product": "NL8317",
4   "id_avoice": "P0022",
5   "amount": 2,
6   "unit_price": "6.00",
7   "subtotal": "6.00"
8 }
9
10
11
12
13
14
```

BodyCookiesHeaders (14)Test Results

200 OK · 677 ms · 476 B

JSONPreviewVisualize

```
1 {
2   "message": "Detalle de venta actualizado exitosamente"
3 }
```

<input type="checkbox"/>	Edit	Copy	Delete	P0021	NL8317	P0022	2	6.00	6.00
	<input type="checkbox"/> Check all	With selected:			Edit	Copy	Delete	Export	

DELETE: [https://natulove-api.onrender.com/details\\_sales/delete/P0021/NL8317](https://natulove-api.onrender.com/details_sales/delete/P0021/NL8317) 0.6

<input type="checkbox"/>	Edit	Copy	Delete	P0020	NL1112	P0022	1	2.49	2.49
<input type="checkbox"/>	Edit	Copy	Delete	P0020	NL8317	P0022	1	3.00	3.00
<input type="checkbox"/>	Edit	Copy	Delete	P0021	NL8317	P0022	2	6.00	6.00

DELETEhttps://natulove-api.onrender.com/details\_sales/delete/P0020/NL8317Send

ParamsAuthorizationHeaders (9)BodyScriptsSettingsCookiesBeautify

noneform-datax-www-form-urlencodedrawbinaryGraphQLJSON

```
1 {
2   "id_sale": "P0021",
3   "id_product": "NL8317",
4   "id_avoice": "P0022",
5   "amount": 2,
6   "unit_price": "6.00",
7   "subtotal": "6.00"
8 }
9
10
11
12
13
14
```

BodyCookiesHeaders (14)Test Results

200 OK · 583 ms · 475 B

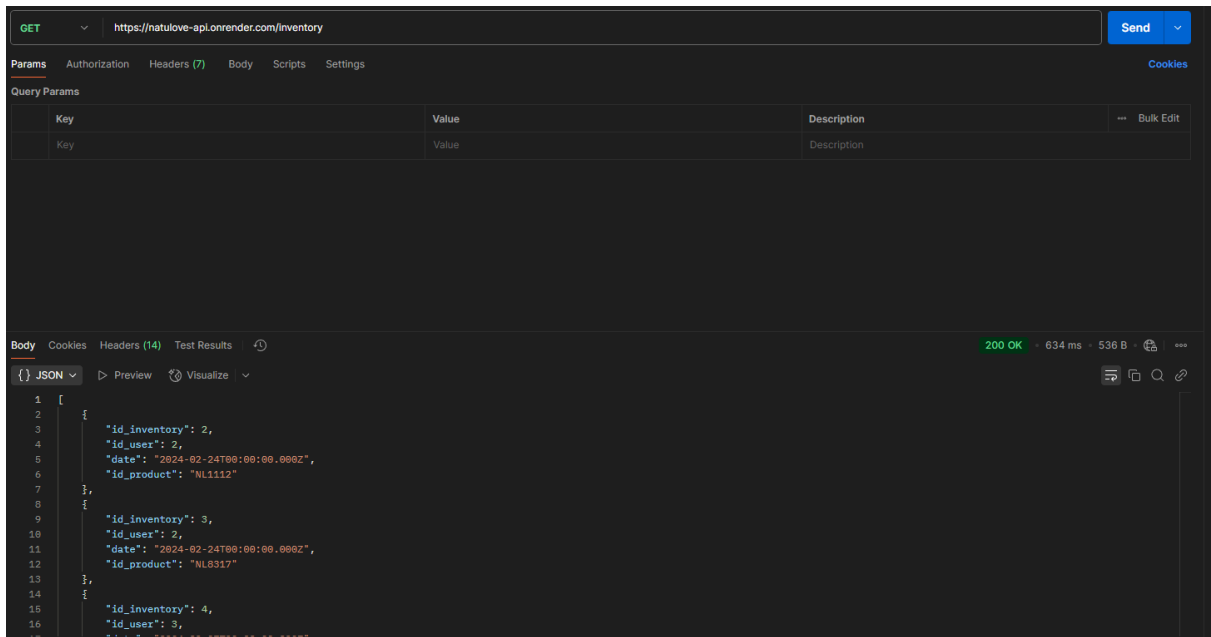
JSONPreviewVisualize

```
1 {
2   "message": "Detalle de venta eliminado exitosamente"
3 }
```

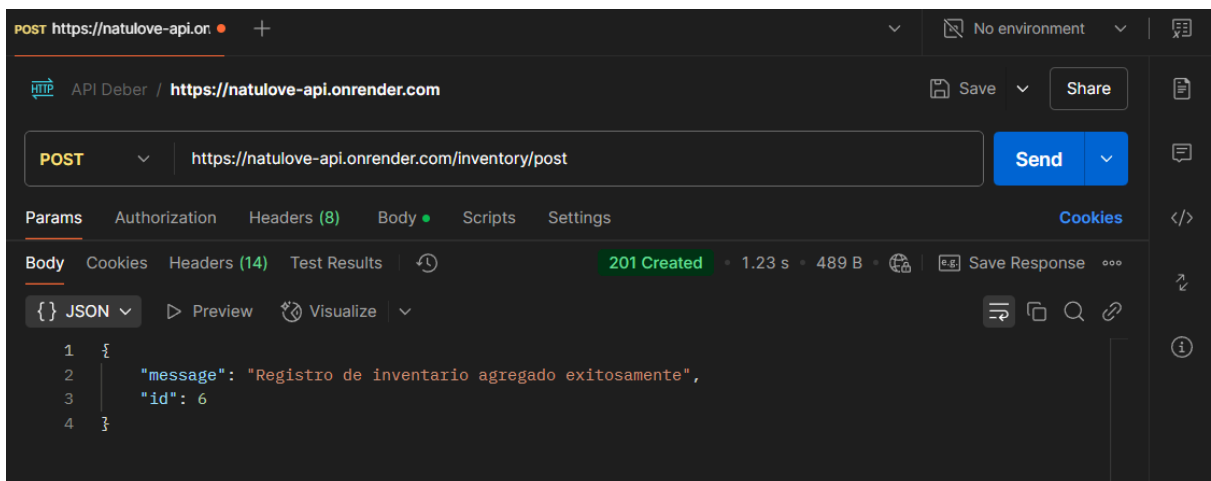
<input type="checkbox"/>	Edit	Copy	Delete	P0020	NL1112	P0022	1	2.49	2.49
<input type="checkbox"/>	Edit	Copy	Delete	P0021	NL8317	P0022	2	6.00	6.00

Inventory:

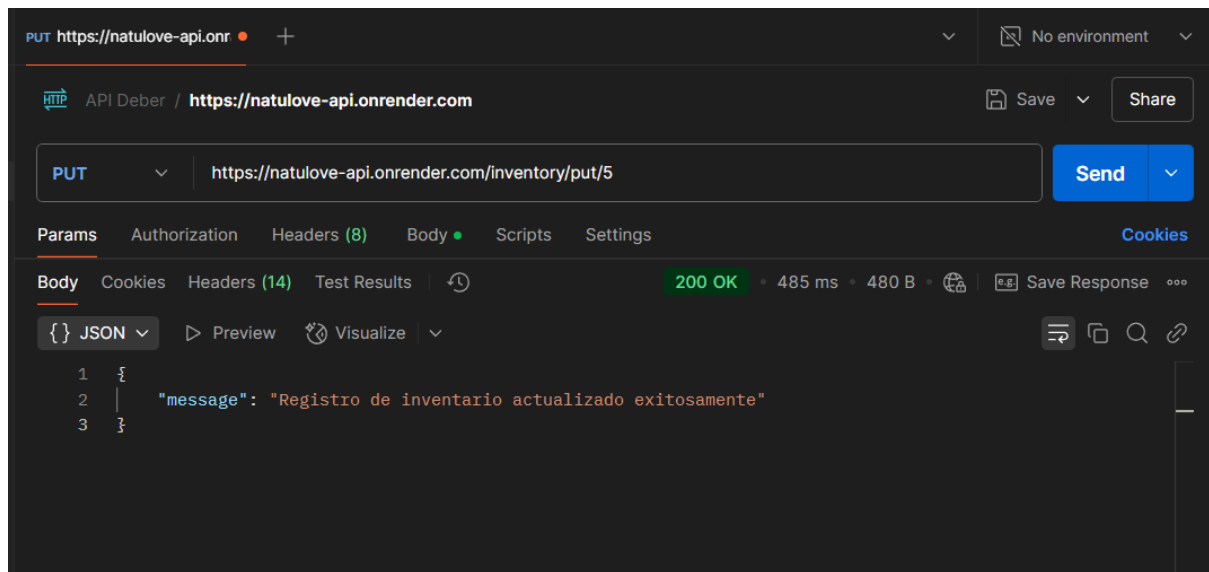
GET: <https://natulove-api.onrender.com/inventory> 0.6



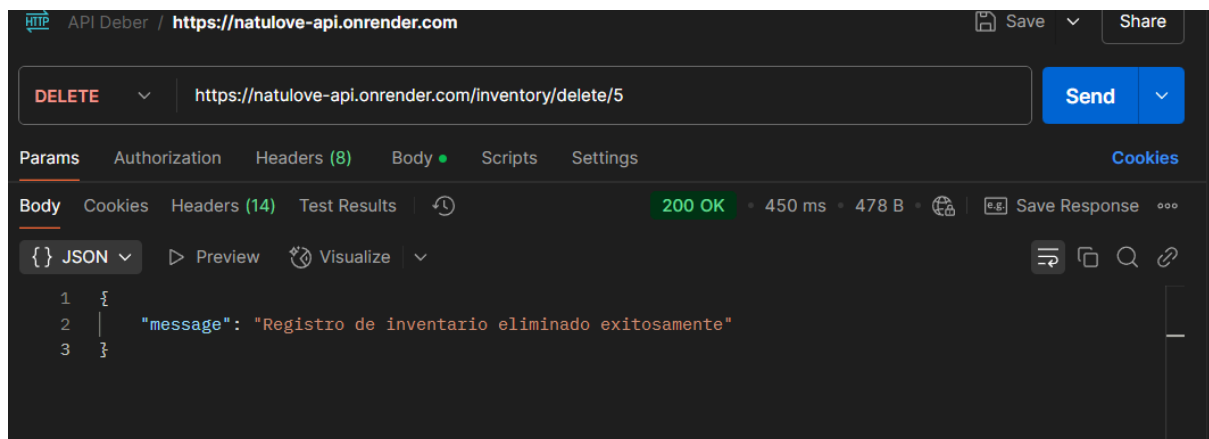
POST: <https://natulove-api.onrender.com/inventory/post> 0.6



PUT: <https://natulove-api.onrender.com/inventory/put/5> 0.6

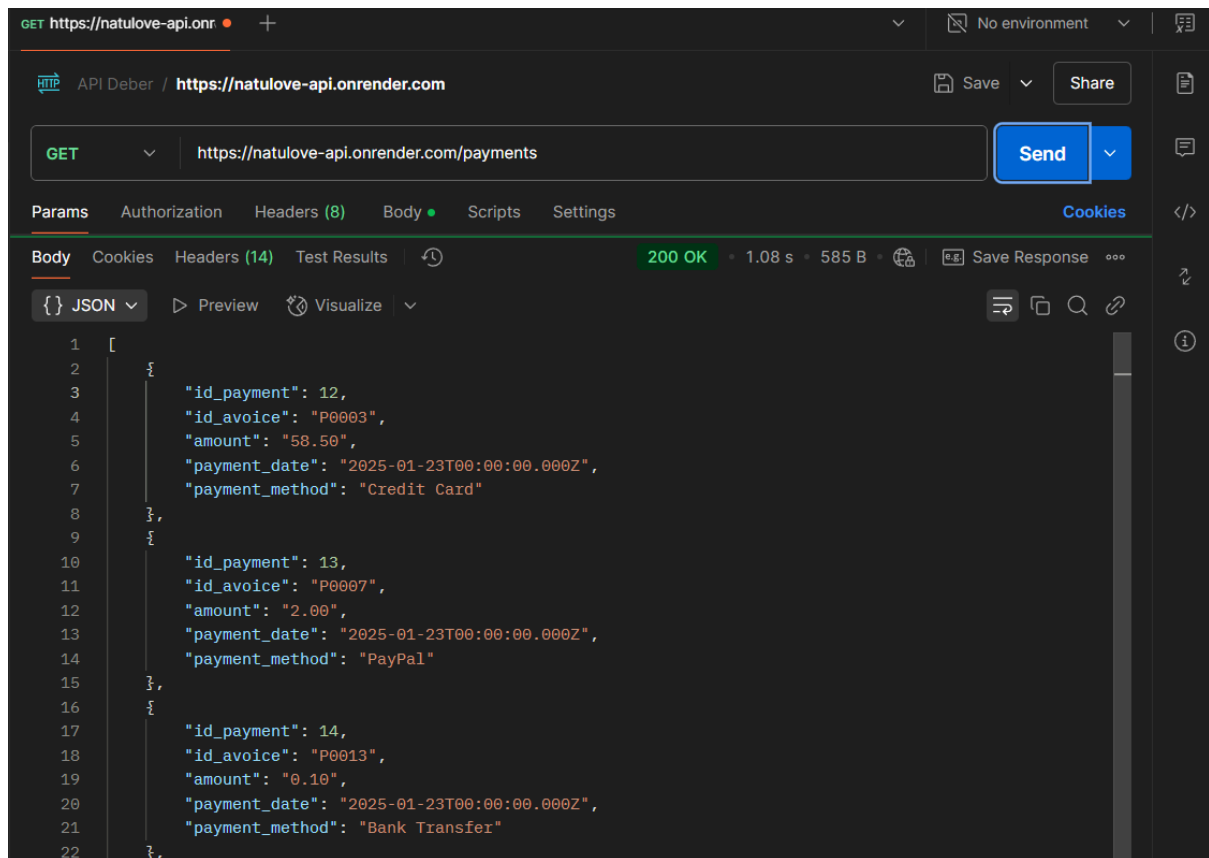


DELETE: <https://natulove-api.onrender.com/inventory/delete/5> 0.6

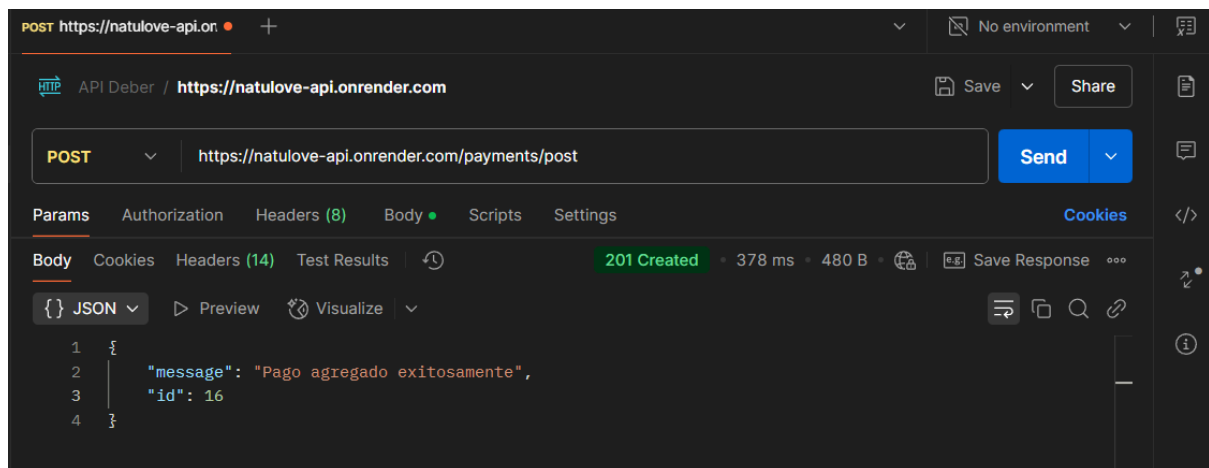


Payments:

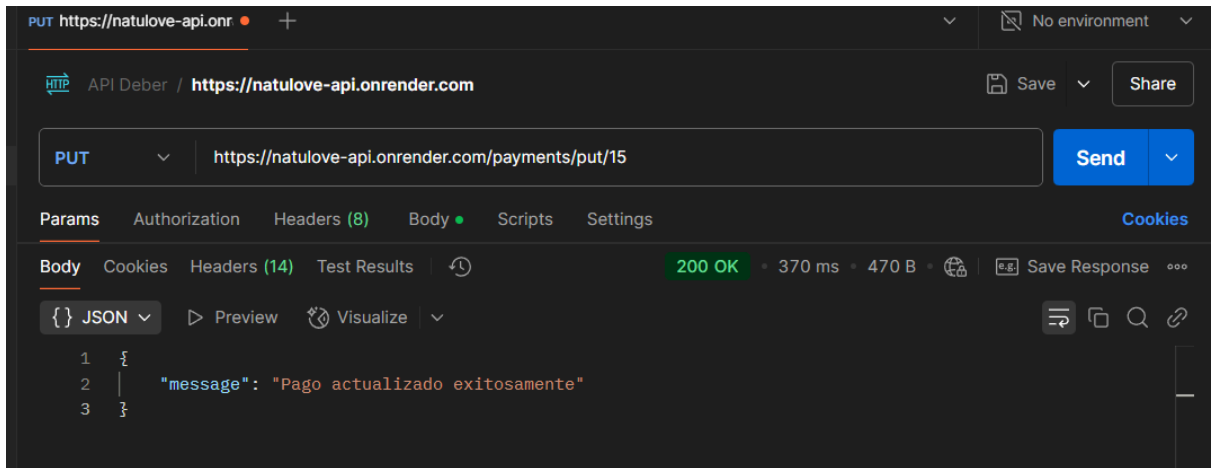
GET: <https://natulove-api.onrender.com/payments> 0.6



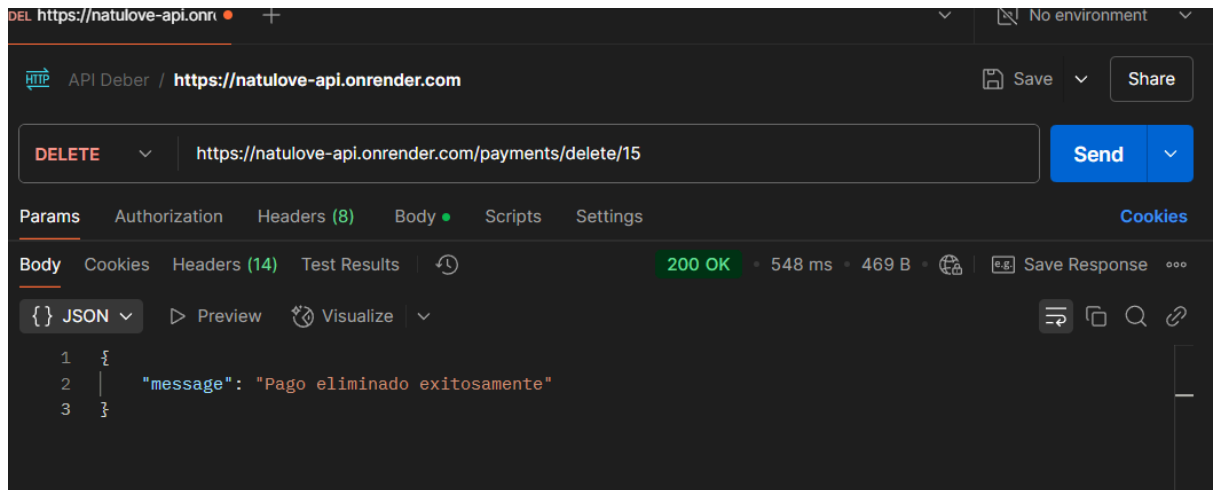
POST: <https://natulove-api.onrender.com/payments/post> 0.6



PUT: <https://natulove-api.onrender.com/payments/put/15> 0.6

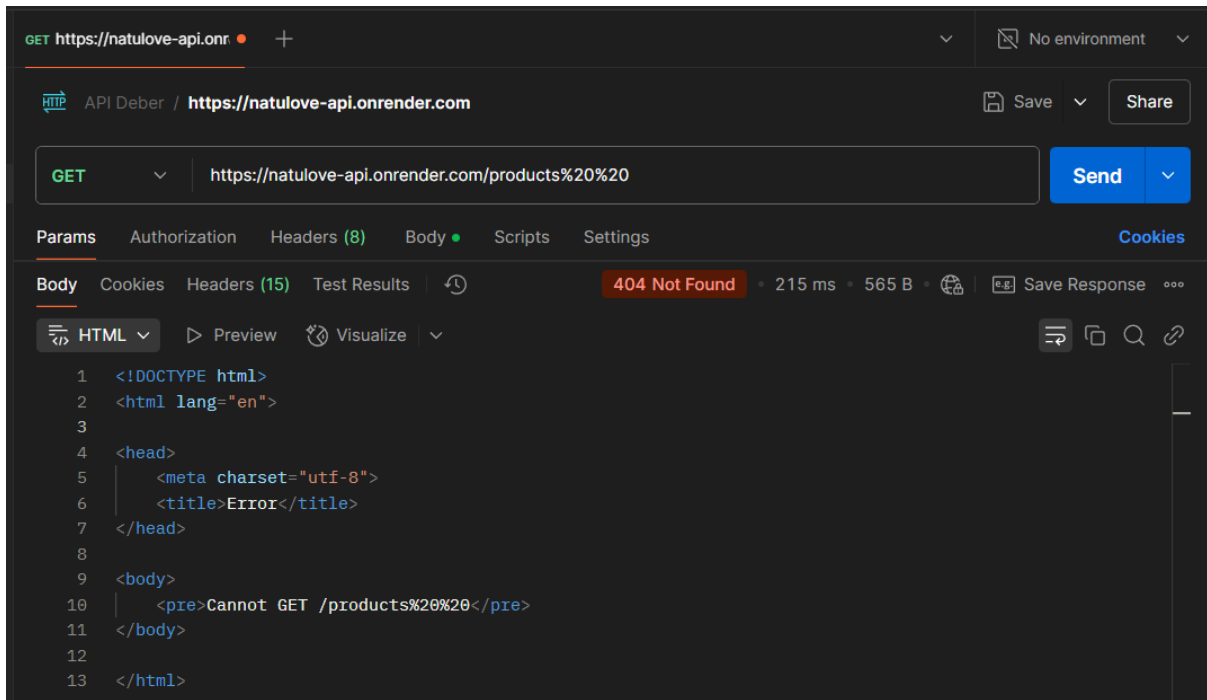


DELETE: <https://natulove-api.onrender.com/payments/delete/15> 0.6

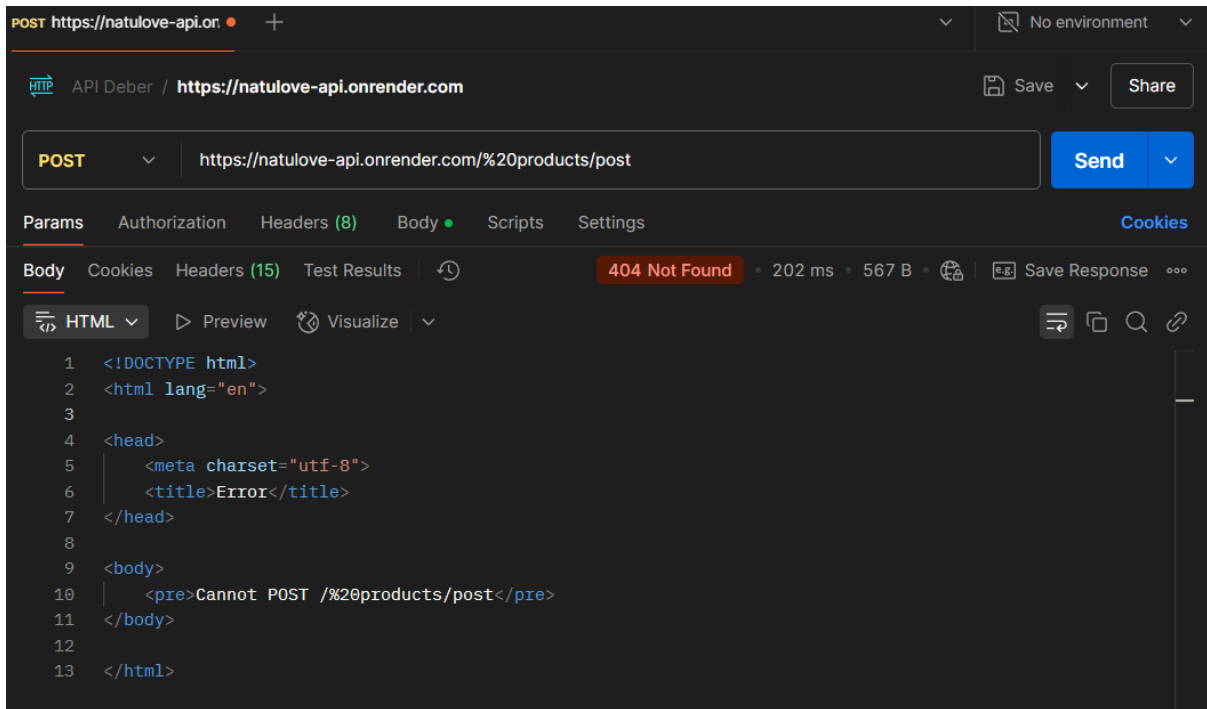


Products:

GET: <https://natulove-api.onrender.com/products> 0.1

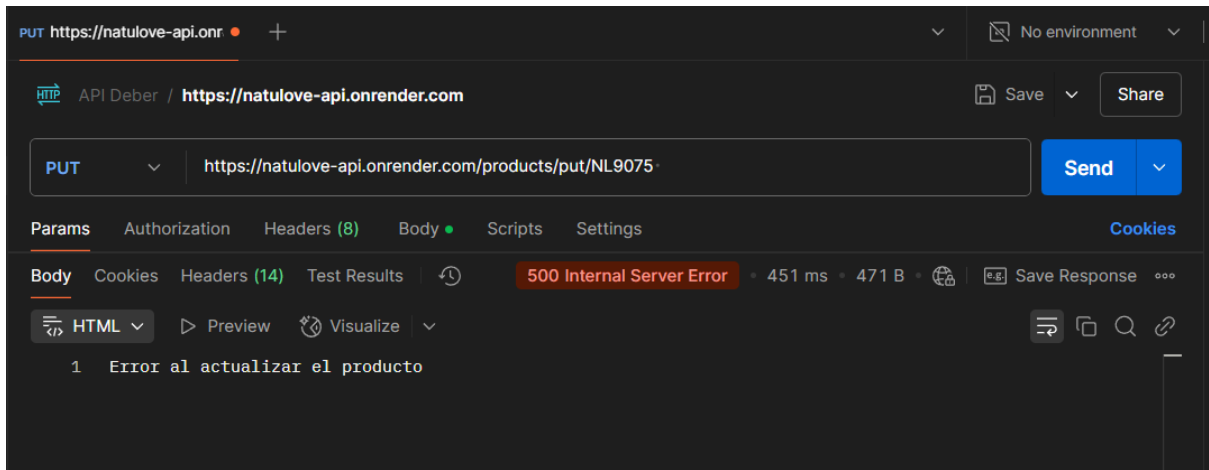


POST: <https://natulove-api.onrender.com/products/post> 0.1

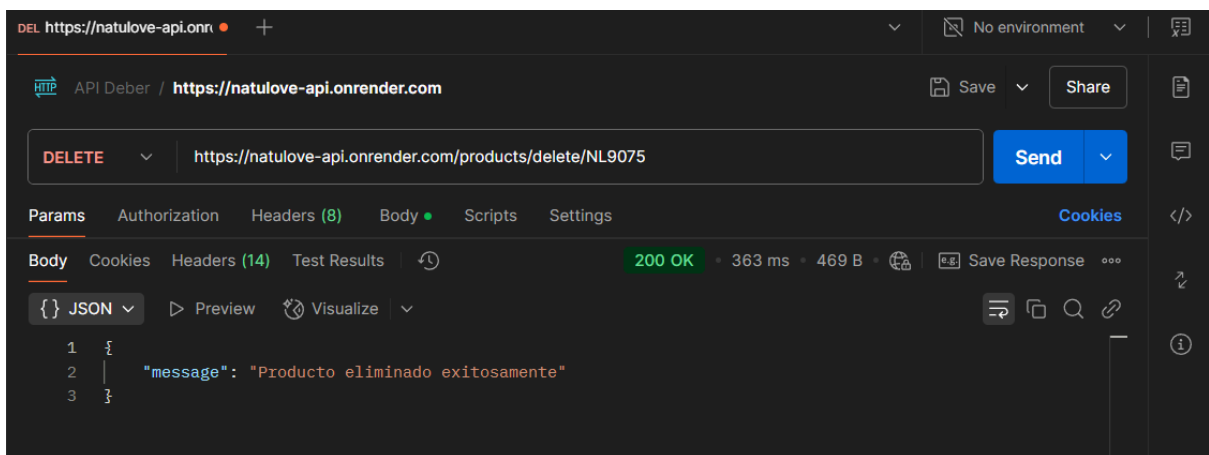


PUT: <https://natulove-api.onrender.com/products/put/NL9075> 0.1



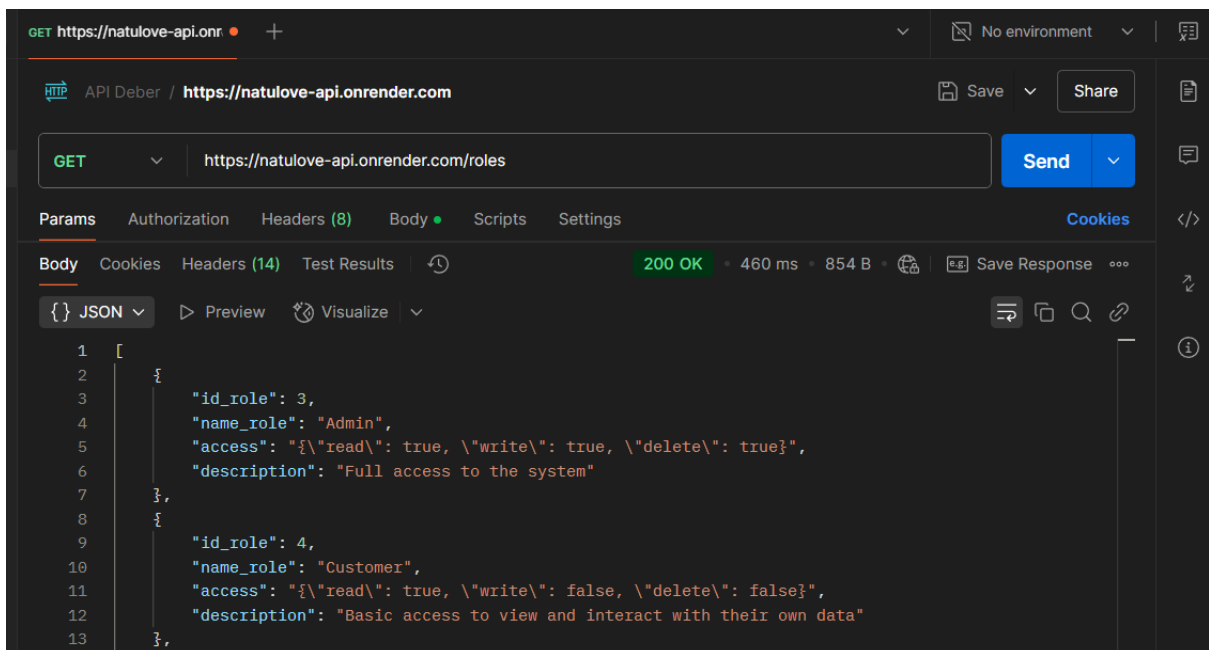


DELETE: <https://natulove-api.onrender.com/products/delete/NL9075> 0.6

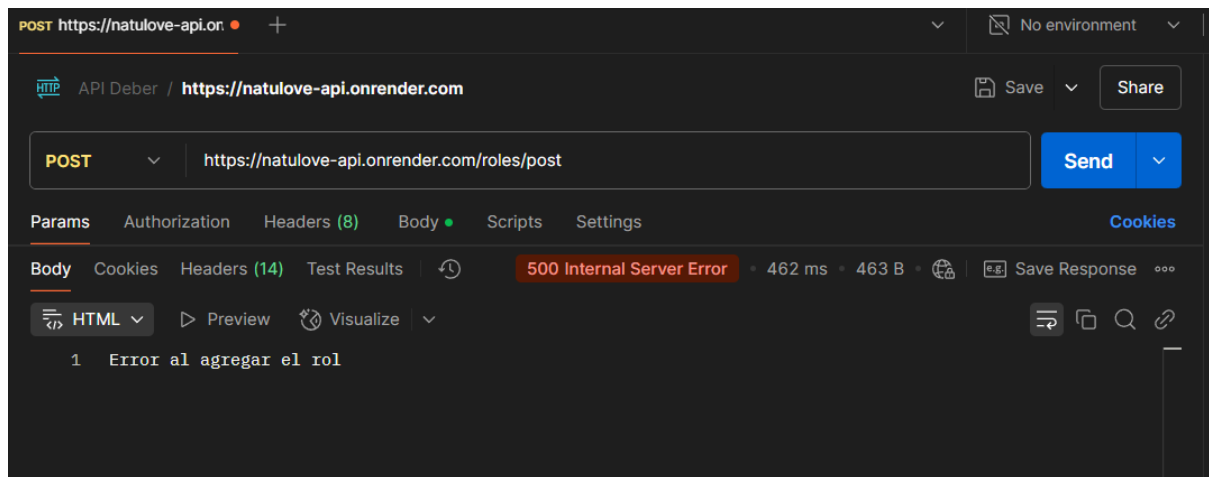


Role:

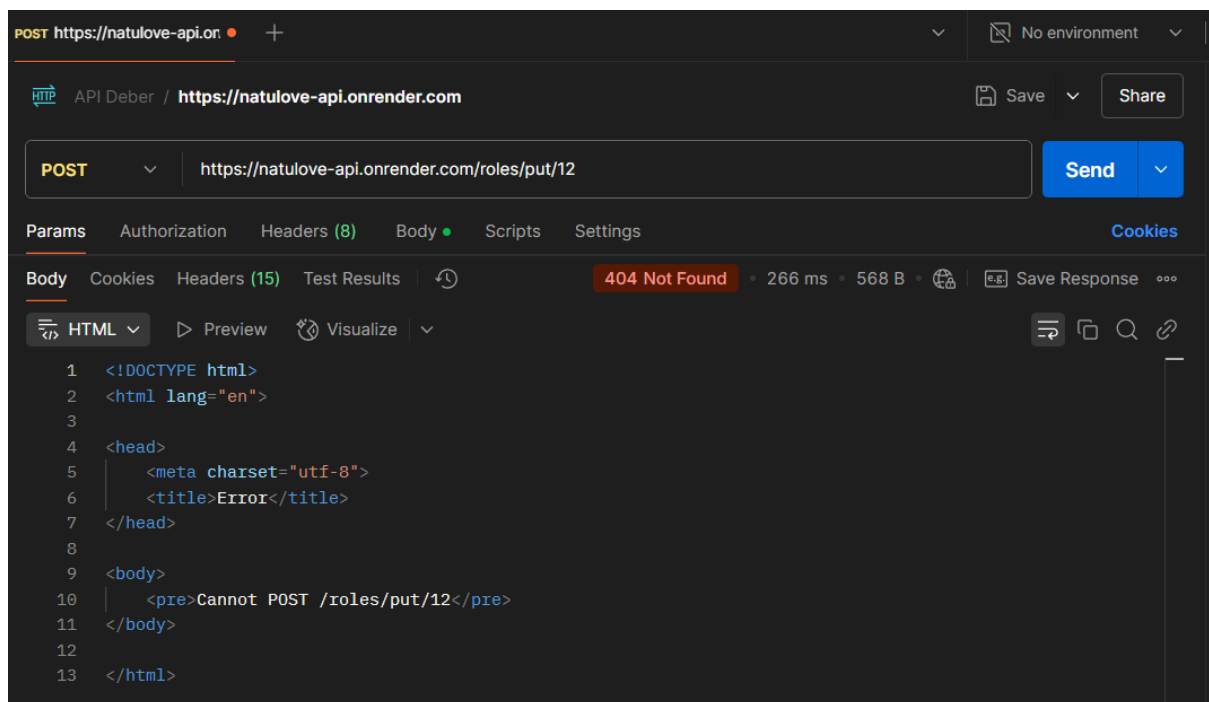
GET: <https://natulove-api.onrender.com/roles> 0.6



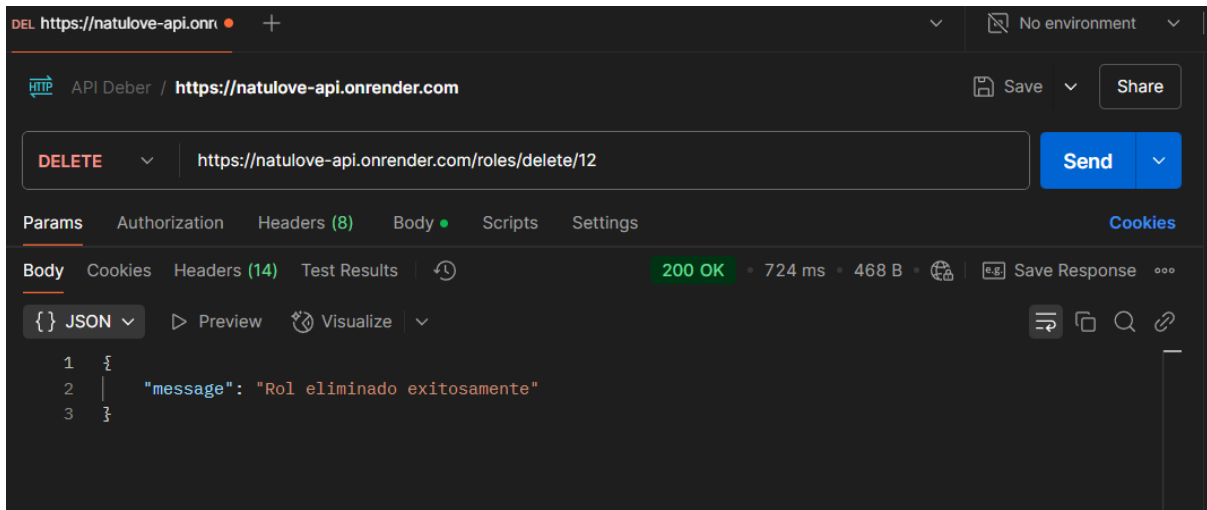
POST: <https://natulove-api.onrender.com/roles/post> 0.1



PUT: <https://natulove-api.onrender.com/roles/put/12> 0.1

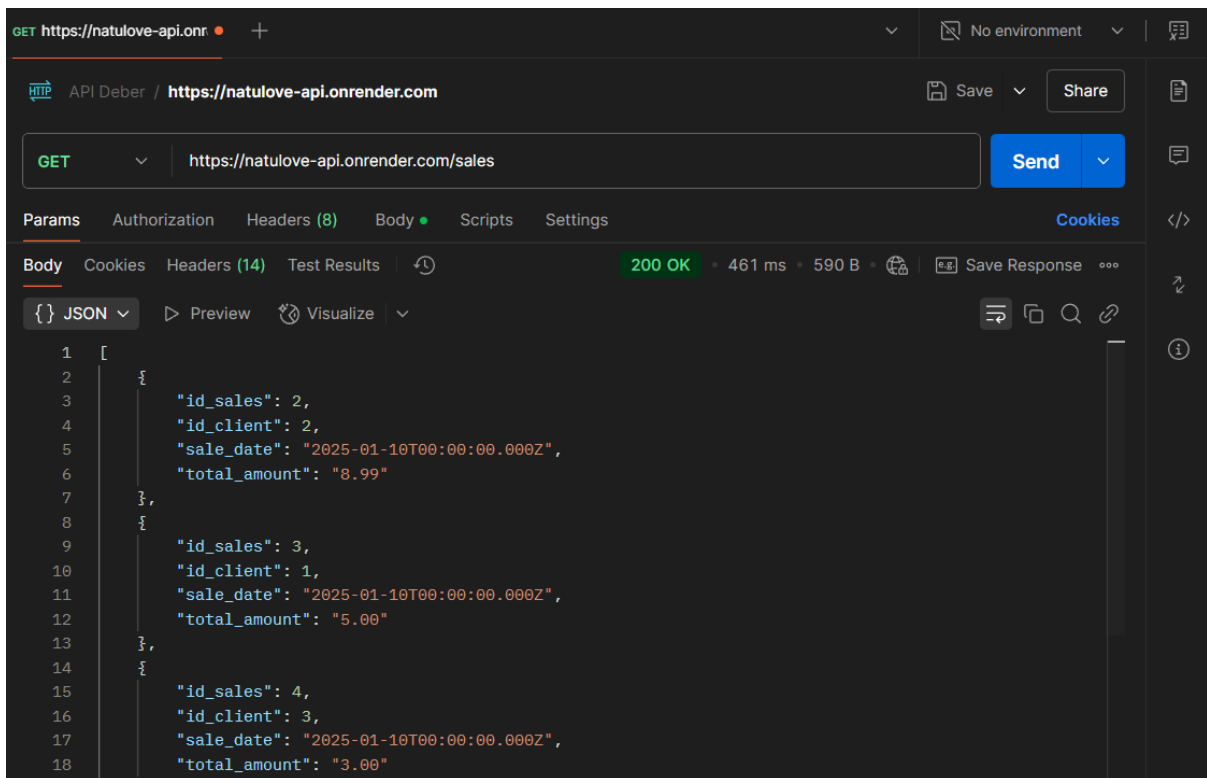


DELETE: <https://natulove-api.onrender.com/roles/delete/12> 0.6

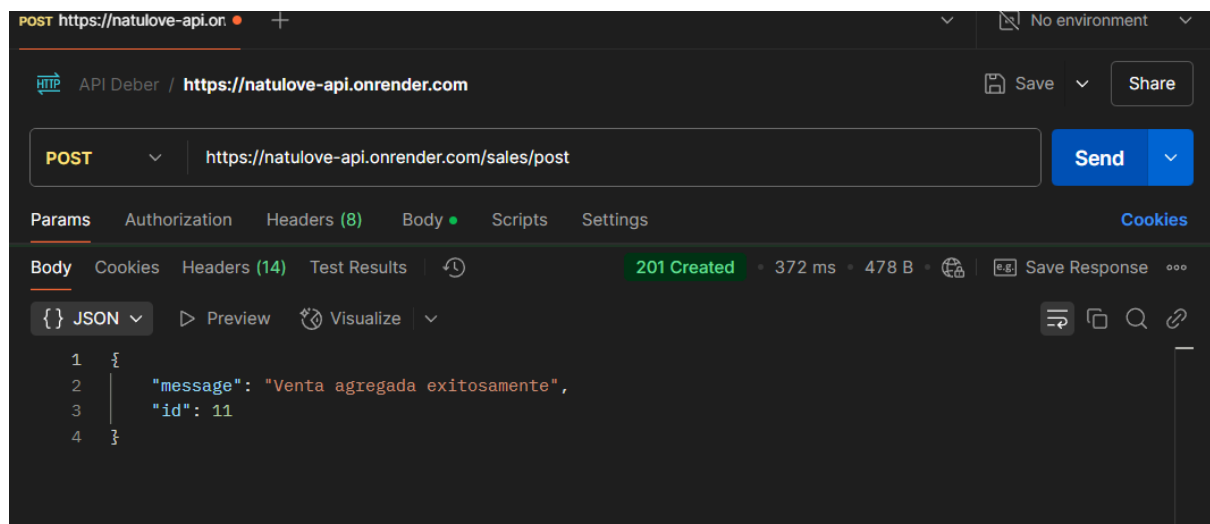


Sales:

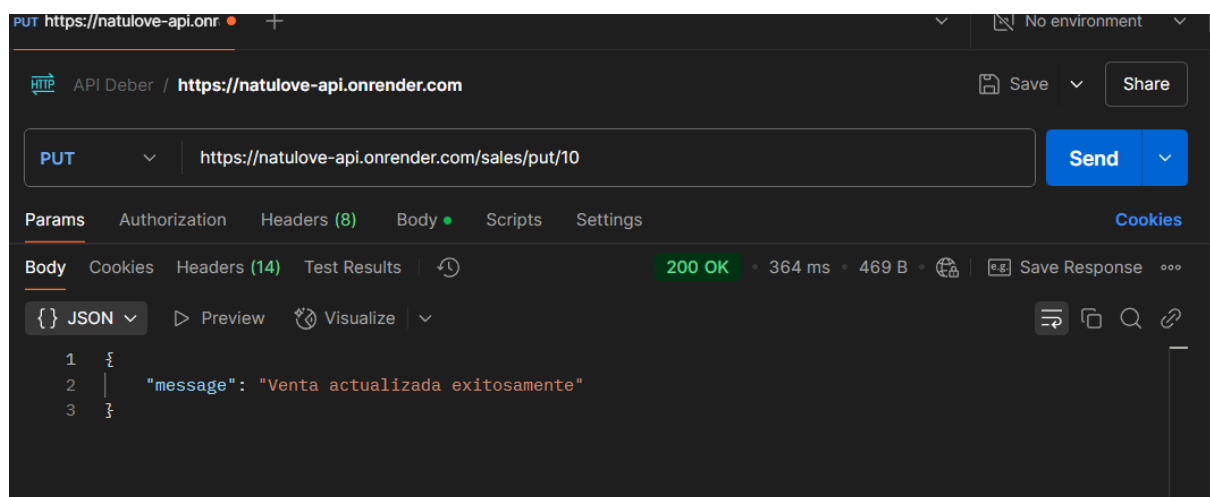
GET: <https://natulove-api.onrender.com/sales> 0.6



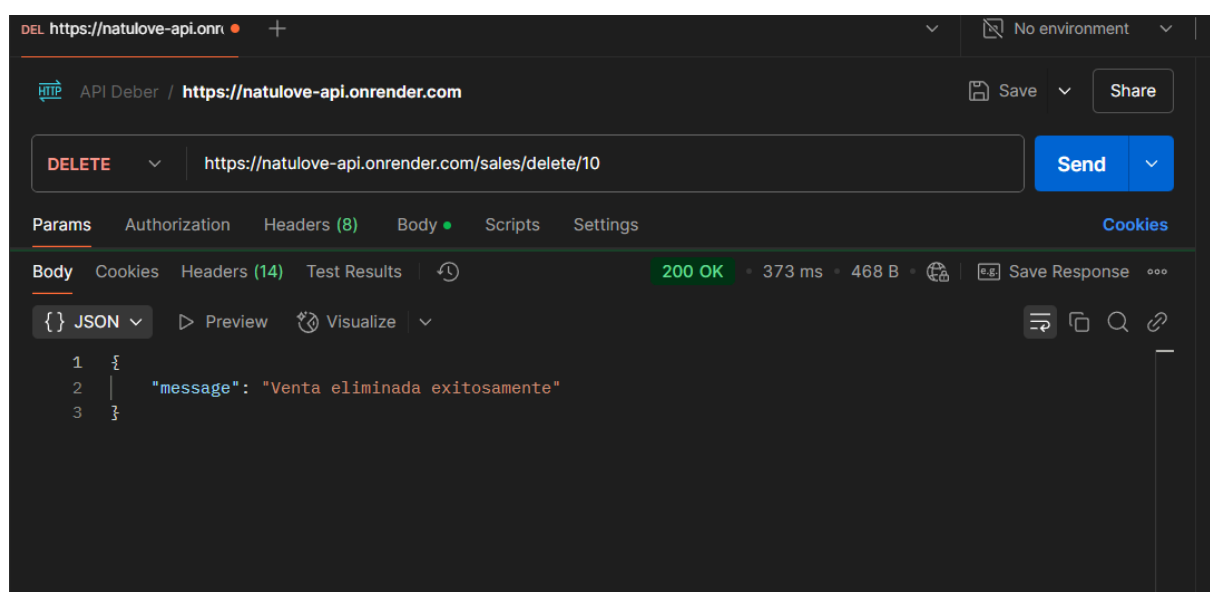
POST: <https://natulove-api.onrender.com/sales/post> 0.6



PUT: <https://natulove-api.onrender.com/sales/put/10> 0.6

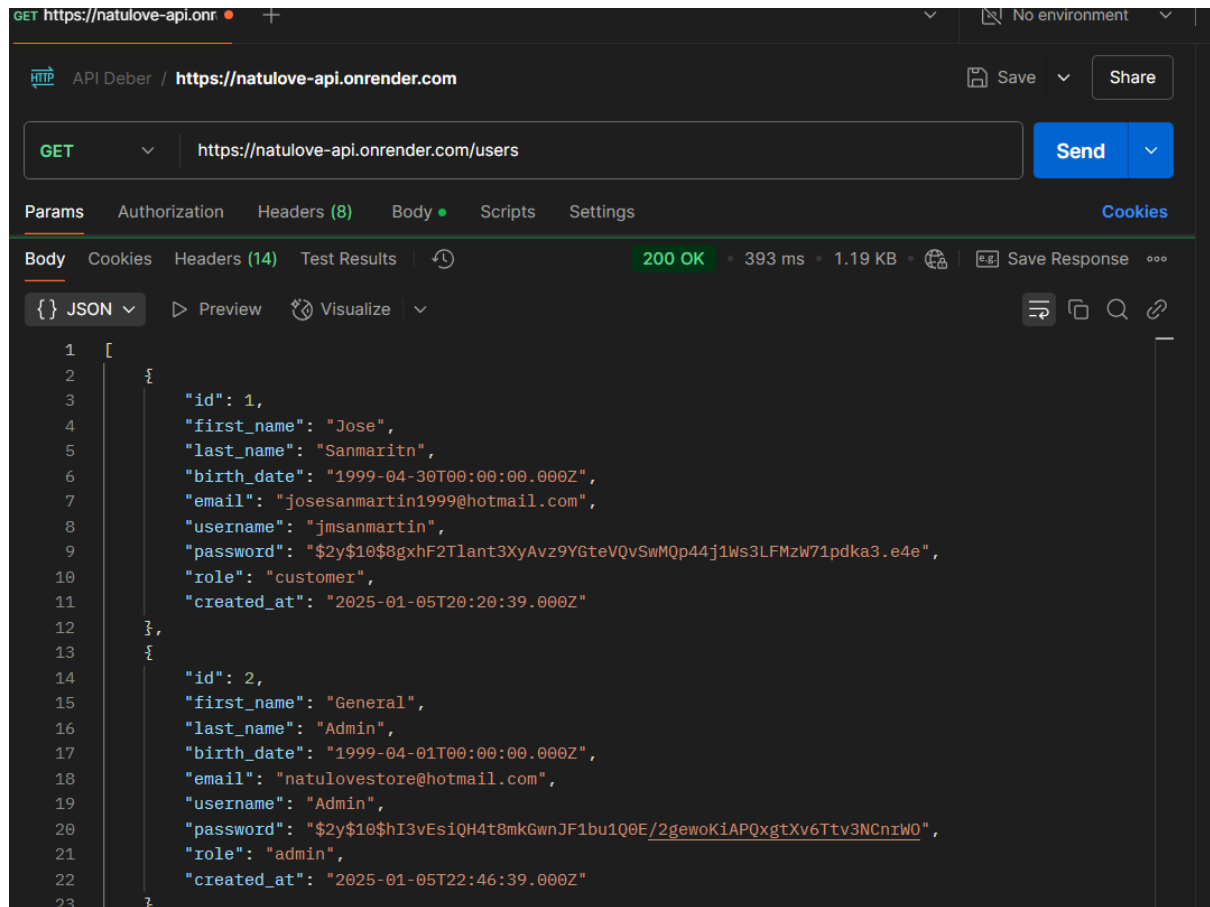


DELETE: <https://natulove-api.onrender.com/sales/delete/10> 0.6

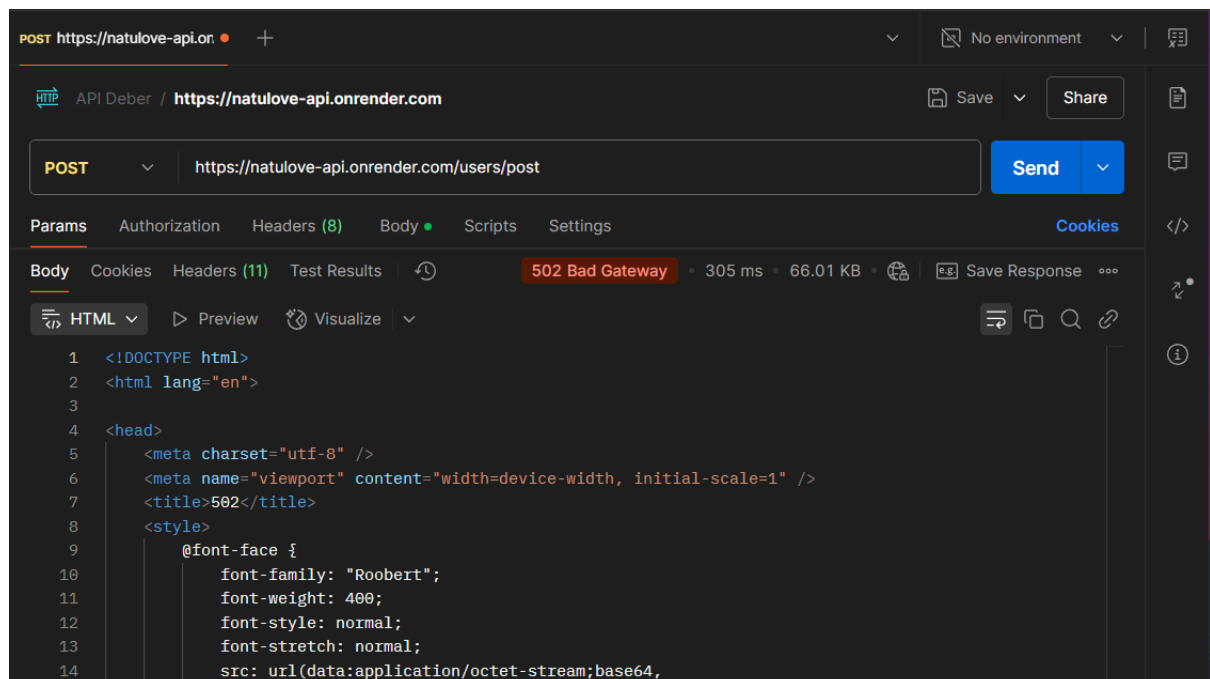


Users:

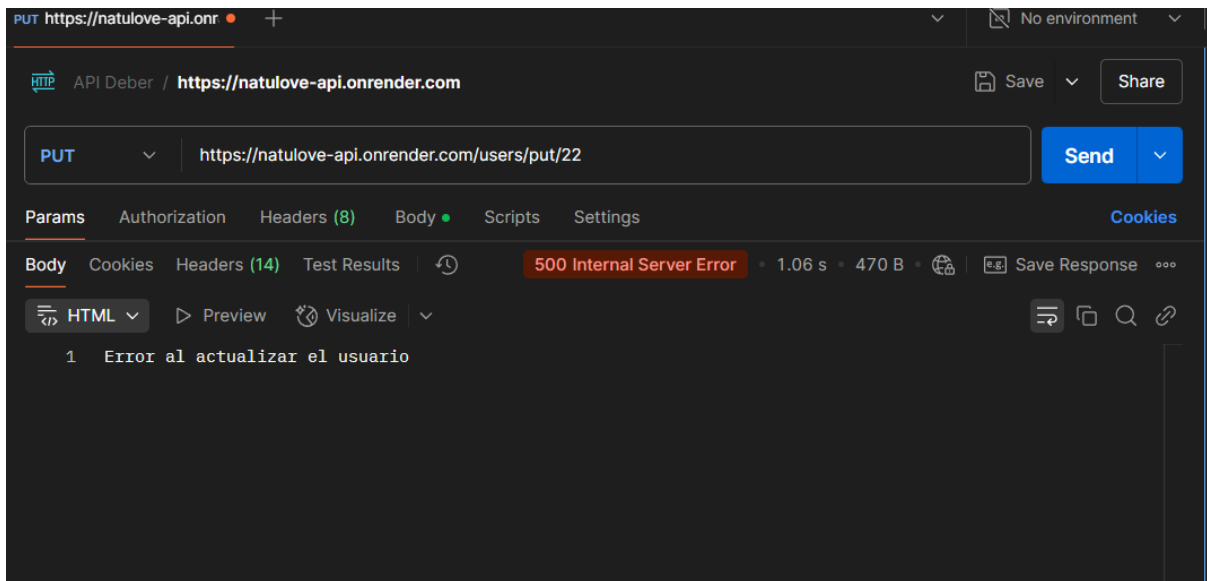
GET: <https://natulove-api.onrender.com/users> 0.6



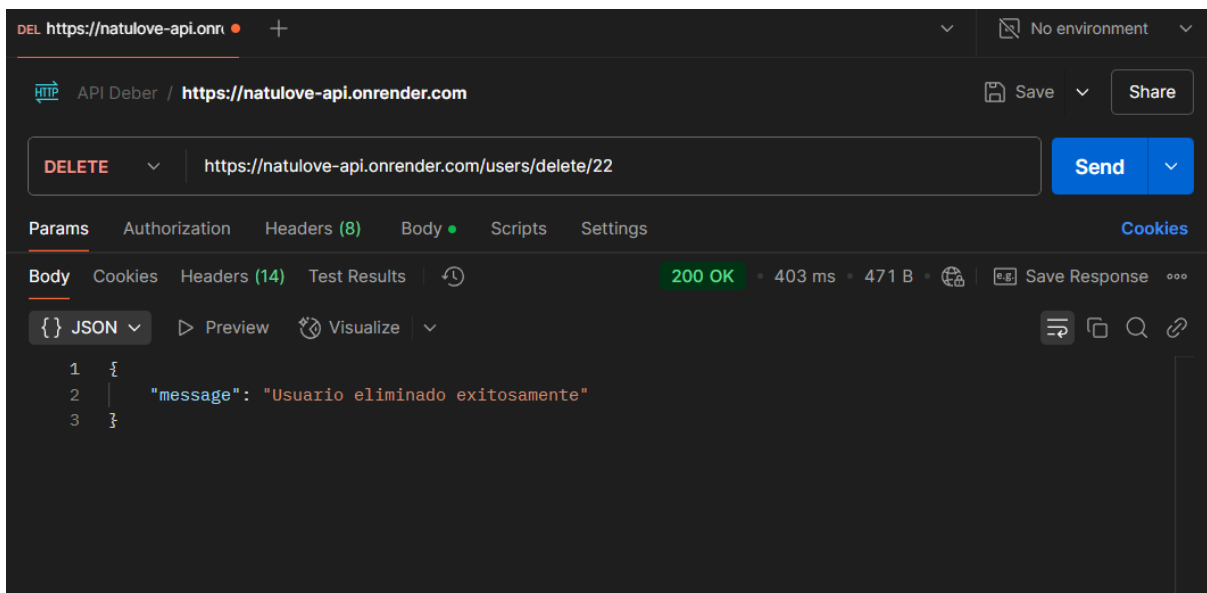
POST: <https://natulove-api.onrender.com/users/post> 0.1



PUT: <https://natulove-api.onrender.com/users/put/22> 0.1



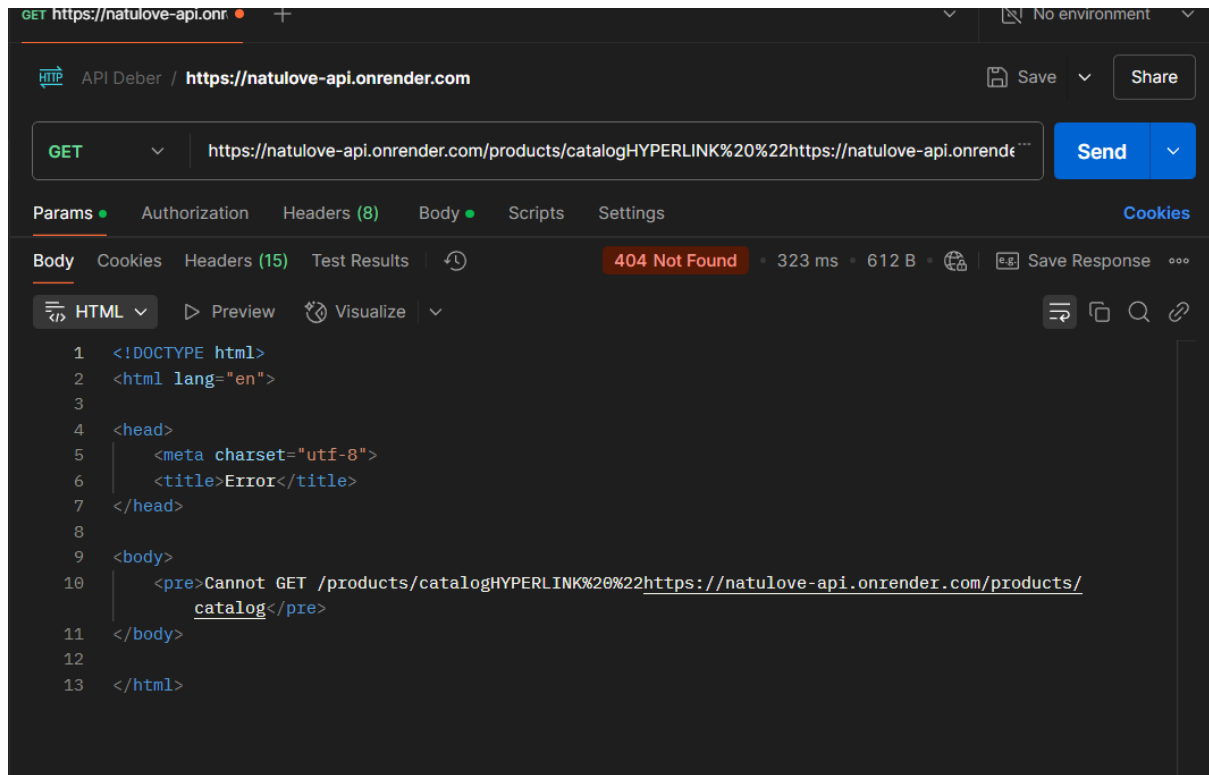
DELETE: <https://natulove-api.onrender.com/users/delete/22> 0.6



## Business rules

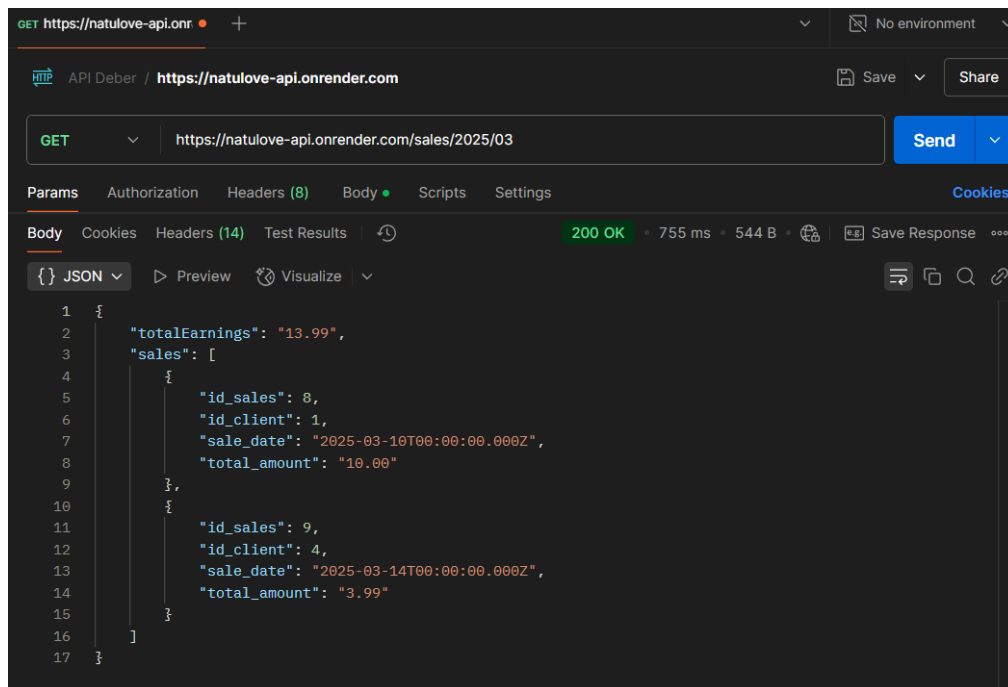
View catalog

<https://natulove-api.onrender.com/products/catalog?category=Dulce> 0.1



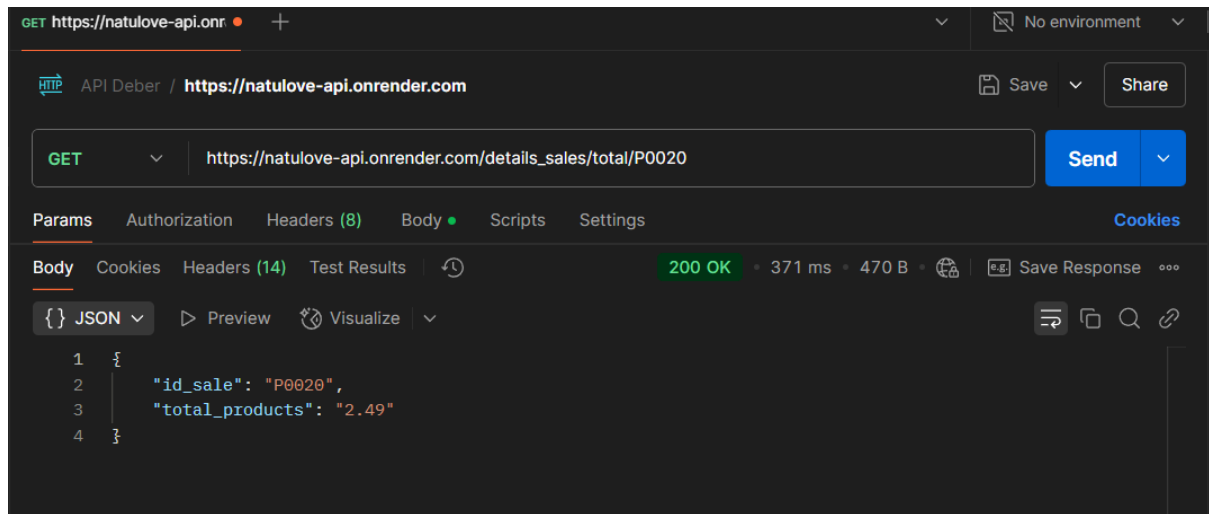
Sum of sales

<https://natulove-api.onrender.com/sales/2025/03> 0.6



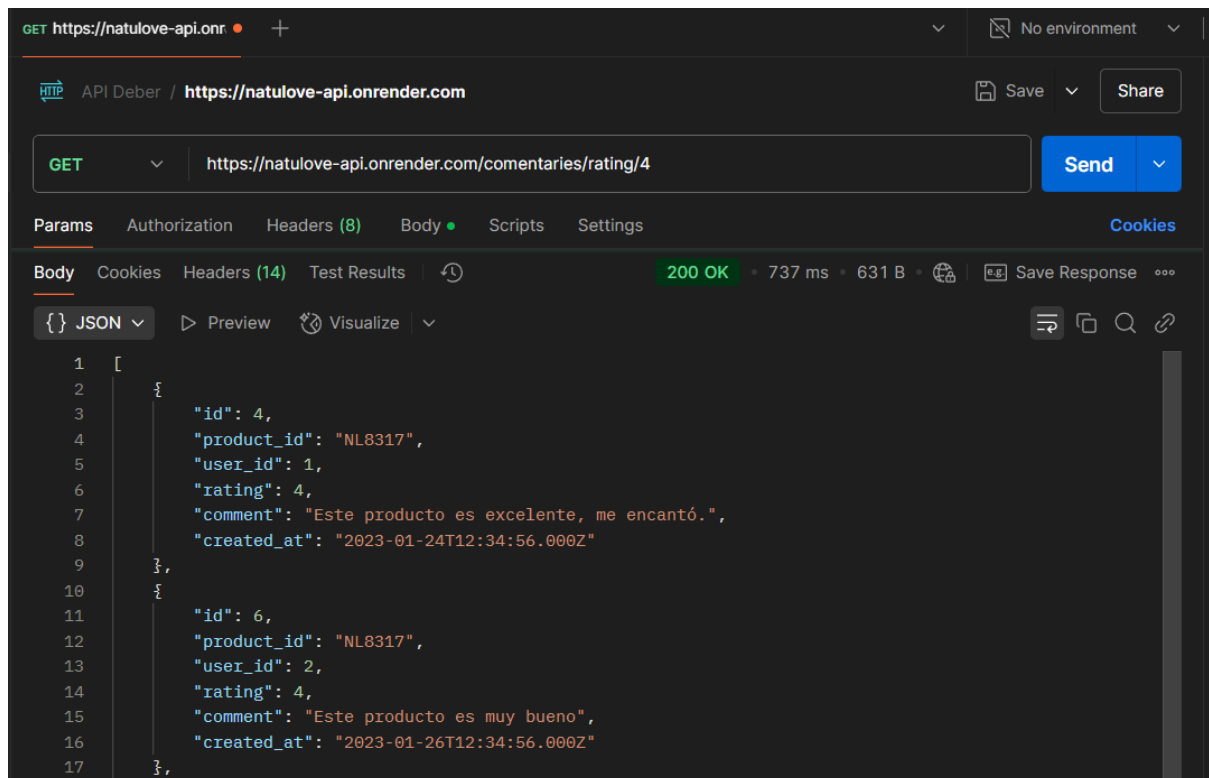
## Products sum

[https://natulove-api.onrender.com/details\\_sales/total/P0020](https://natulove-api.onrender.com/details_sales/total/P0020) 0.6



## Classify comments

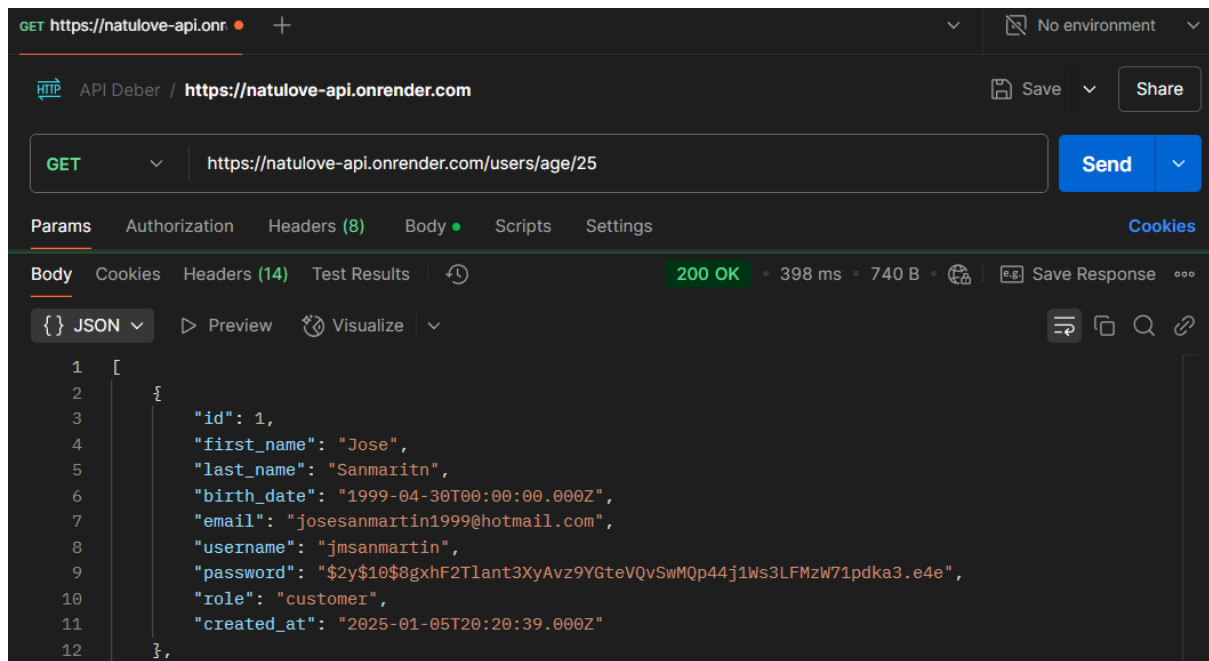
<https://natulove-api.onrender.com/comentarios/rating/4> 0.6



## Calculate age

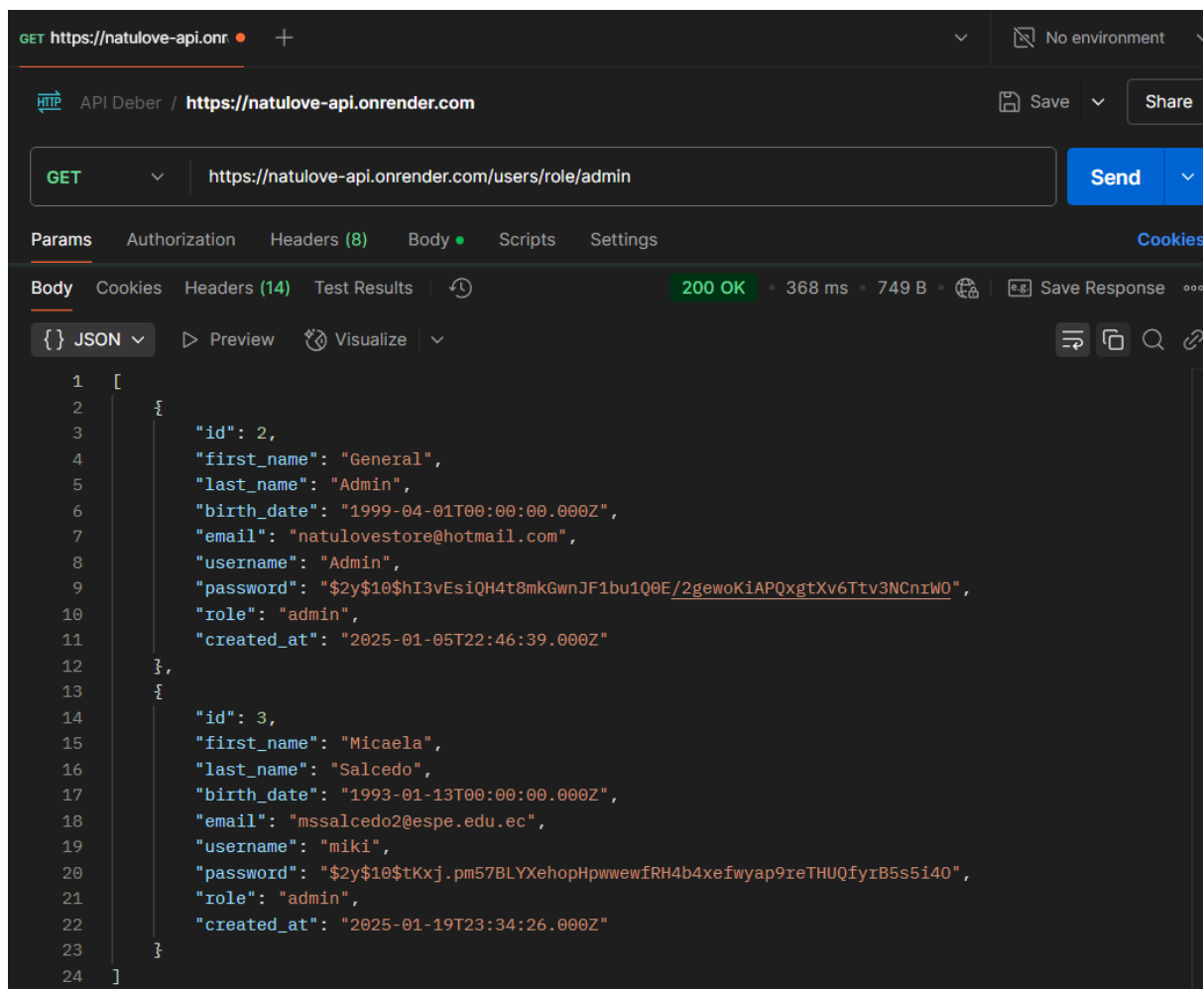
<https://natulove-api.onrender.com/users/age/25> 0.6





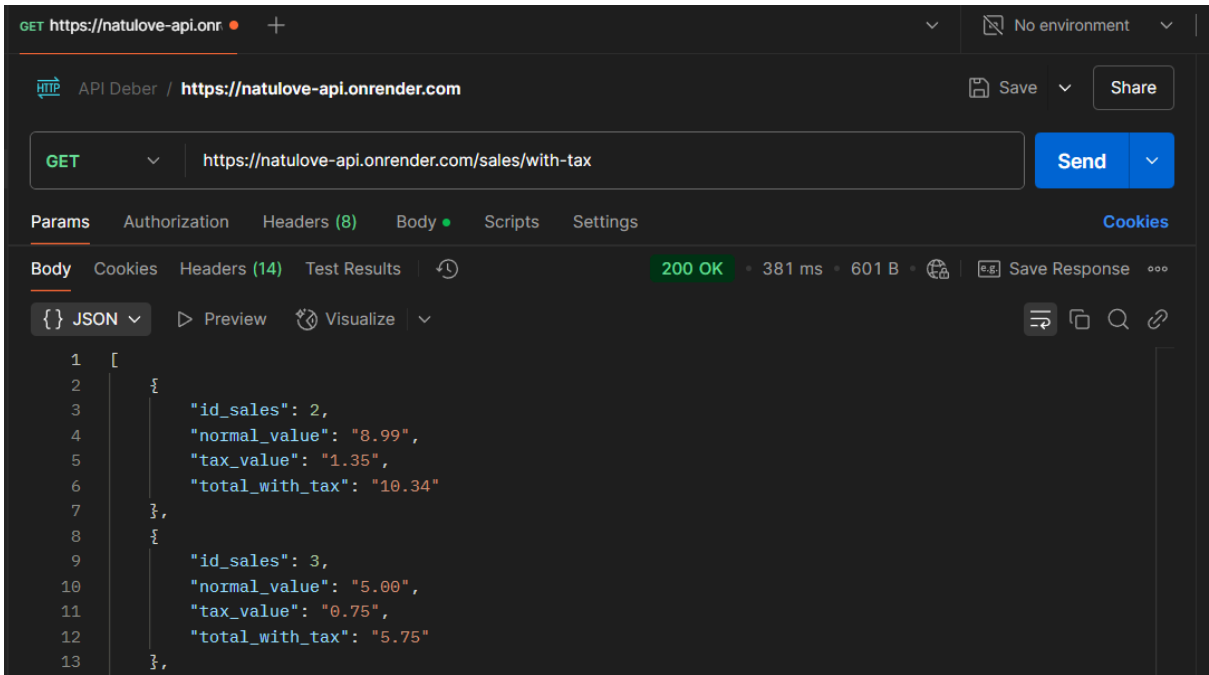
Classify user

<https://natulove-api.onrender.com/users/role/admin> 0.6



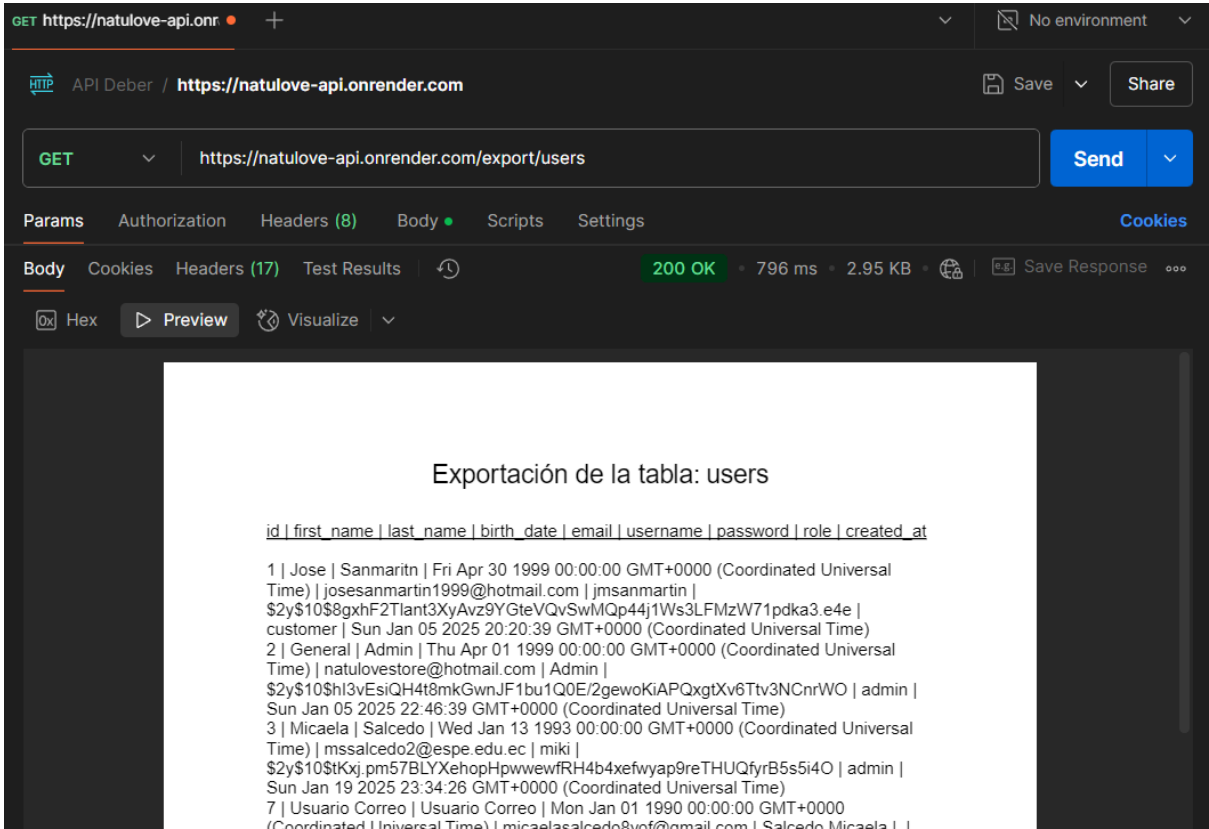
Calculate IVA

<https://natulove-api.onrender.com/sales/with-tax> 0.6



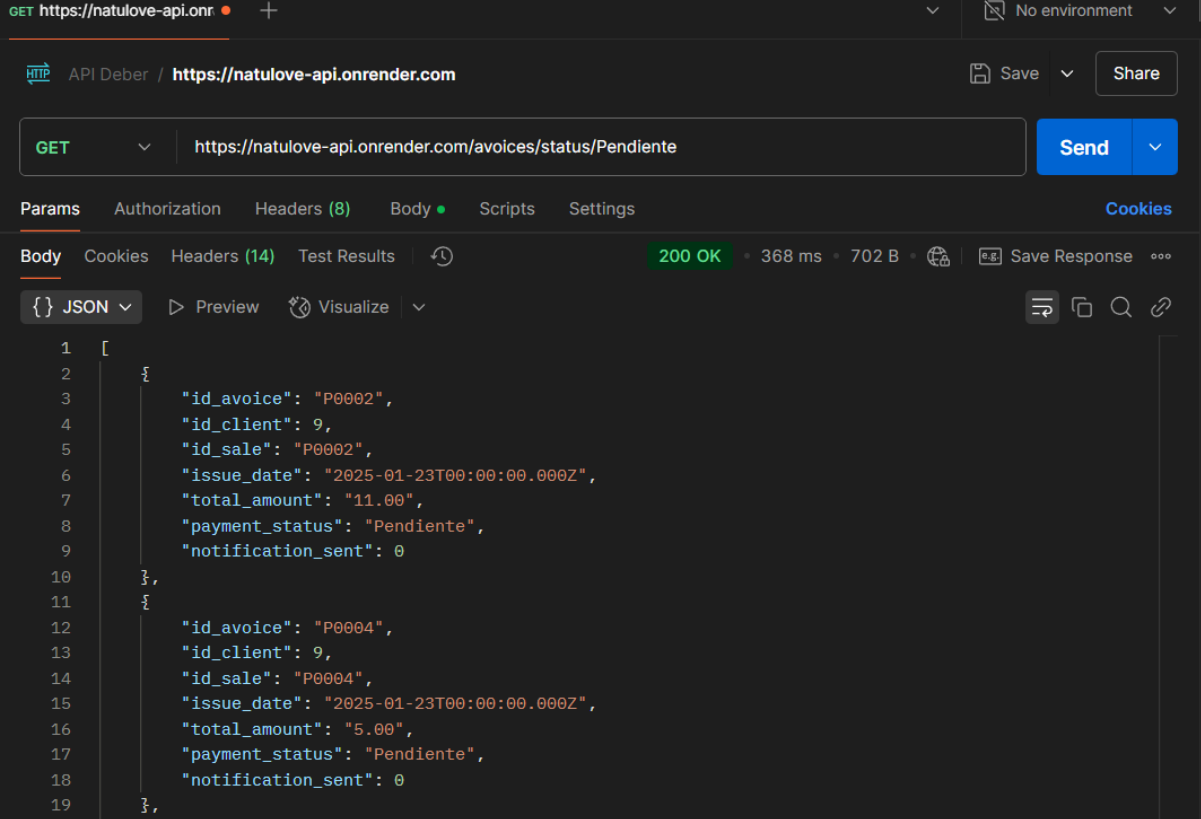
Export to PDF

<https://natulove-api.onrender.com/export/users> 0.6



## Classify state

<https://natulove-api.onrender.com/avoices/status/Pendiente> 0.6



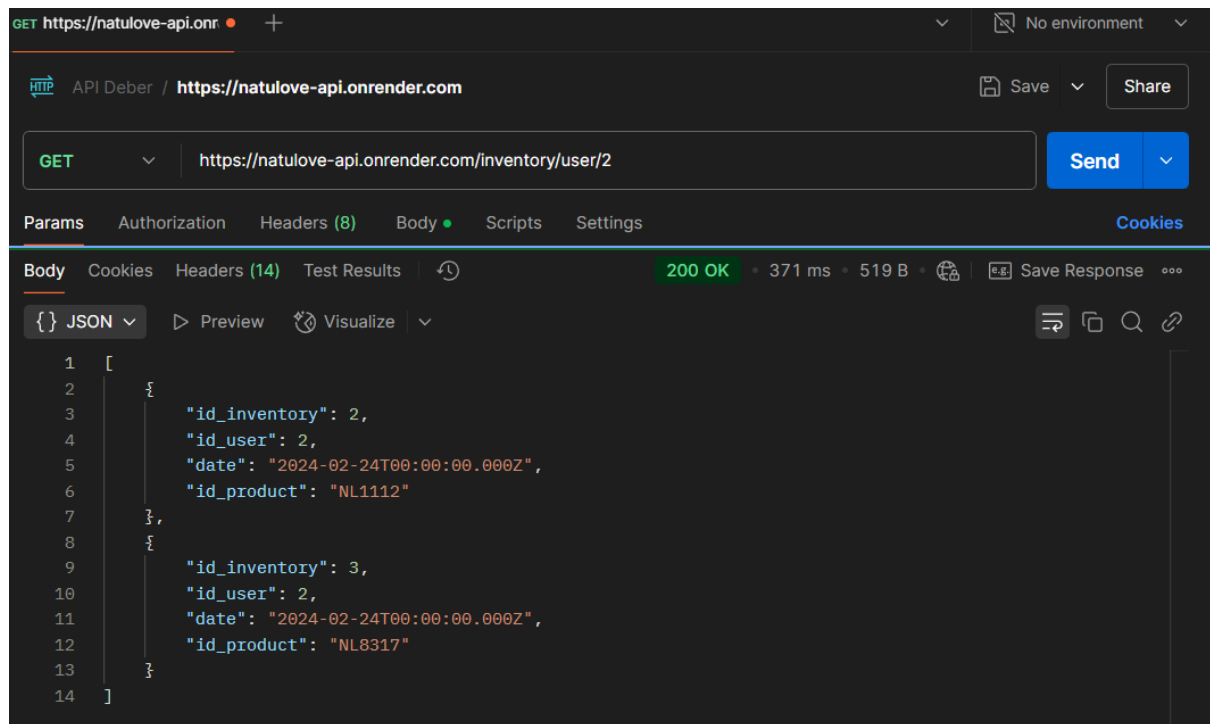
The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <https://natulove-api.onrender.com/avoices/status/Pendiente>
- Status:** 200 OK
- Response Time:** 368 ms
- Response Size:** 702 B
- Response Format:** JSON
- Response Body:**

```
1  [  
2    {  
3      "id_avoice": "P0002",  
4      "id_client": 9,  
5      "id_sale": "P0002",  
6      "issue_date": "2025-01-23T00:00:00.000Z",  
7      "total_amount": "11.00",  
8      "payment_status": "Pendiente",  
9      "notification_sent": 0  
10   },  
11   {  
12     "id_avoice": "P0004",  
13     "id_client": 9,  
14     "id_sale": "P0004",  
15     "issue_date": "2025-01-23T00:00:00.000Z",  
16     "total_amount": "5.00",  
17     "payment_status": "Pendiente",  
18     "notification_sent": 0  
19   },  
20 ]
```

## Classify inventory

<https://natulove-api.onrender.com/inventory/user/2> 0.6



## 7. Clean code (MVC)

JS businessRulesAPI.js X

06.-Code > backend > Individual\_API > JS businessRulesAPI.js > ...

```
1  const express = require('express');
2  const connection = require('../db');
3  const PDFDocument = require('pdfkit');
4  const fs = require('fs');
5  const app = express();
6  const PORT = 3000;
7
8
9  app.use(express.json());
10
11  //View catalog
12  app.get('/products', (req, res) => {
13      const category = req.query.category; // Se obtiene la categoría del query parameter
14
15      if (!category) {
16          return res.status(400).send('Por favor, proporciona una categoría.');
```