

UNIT TEST

Component

API-CARS

(Developed for a Nexu backend test)



Created by José Gaxiola

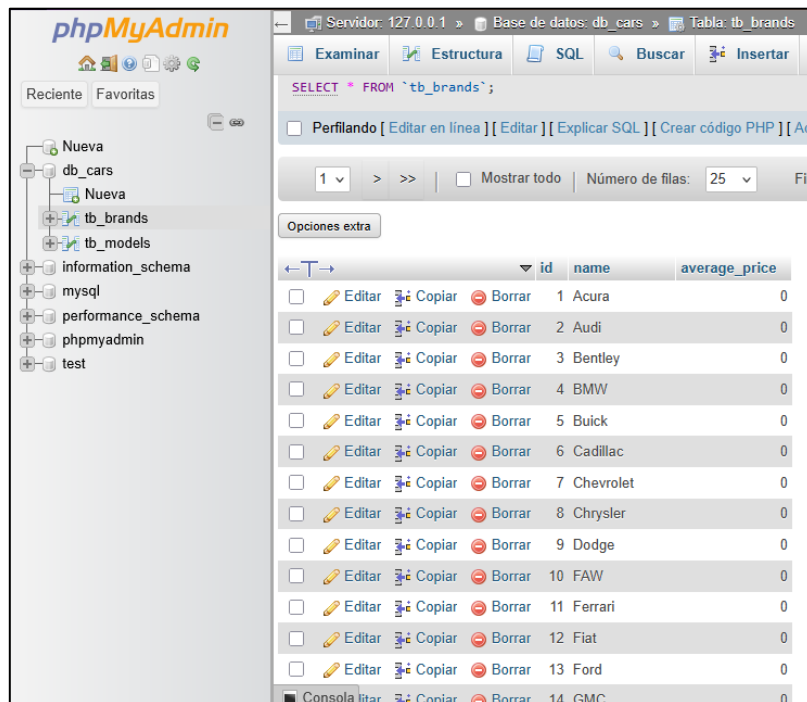
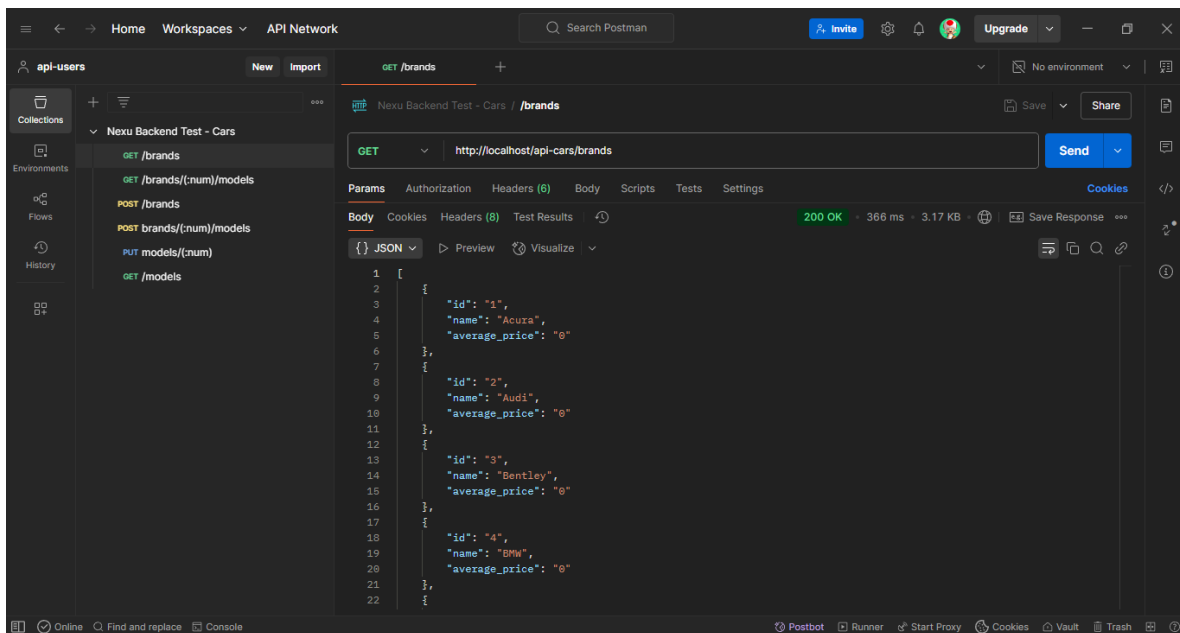
Unit test for “API-CARS”

For this unit test, we consume all the endpoints requested using **Postman**.

1. GET /brands

List all models of the brand

URL: <http://localhost/api-cars/brands>



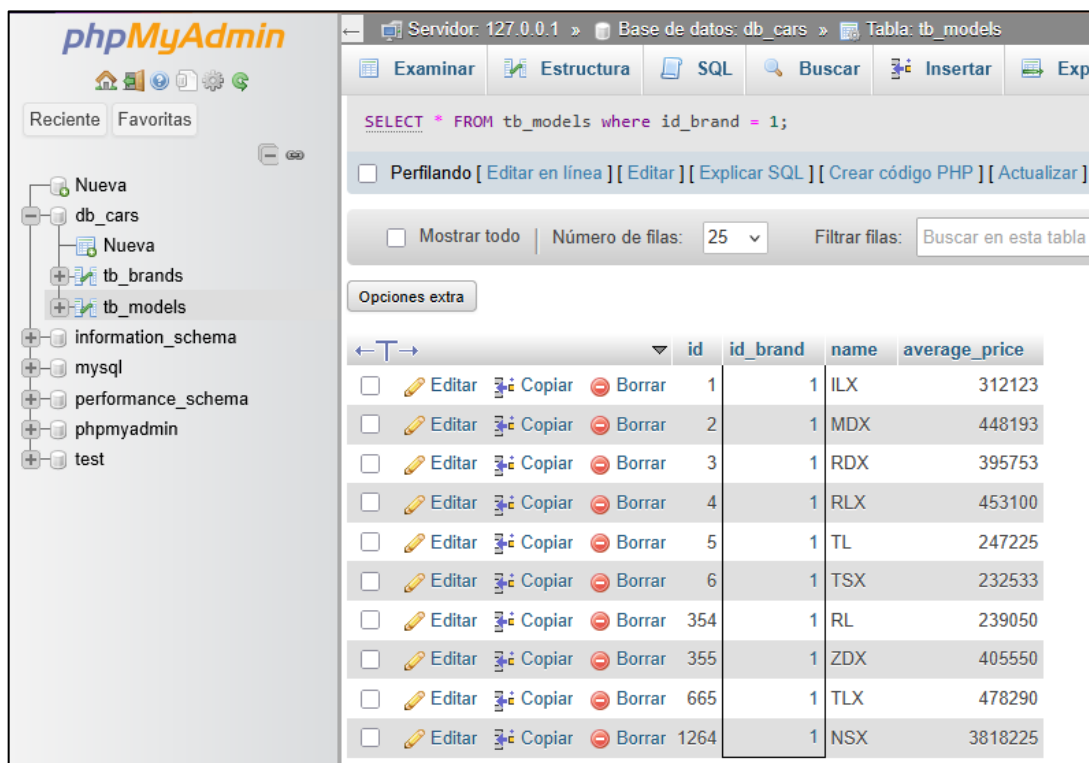
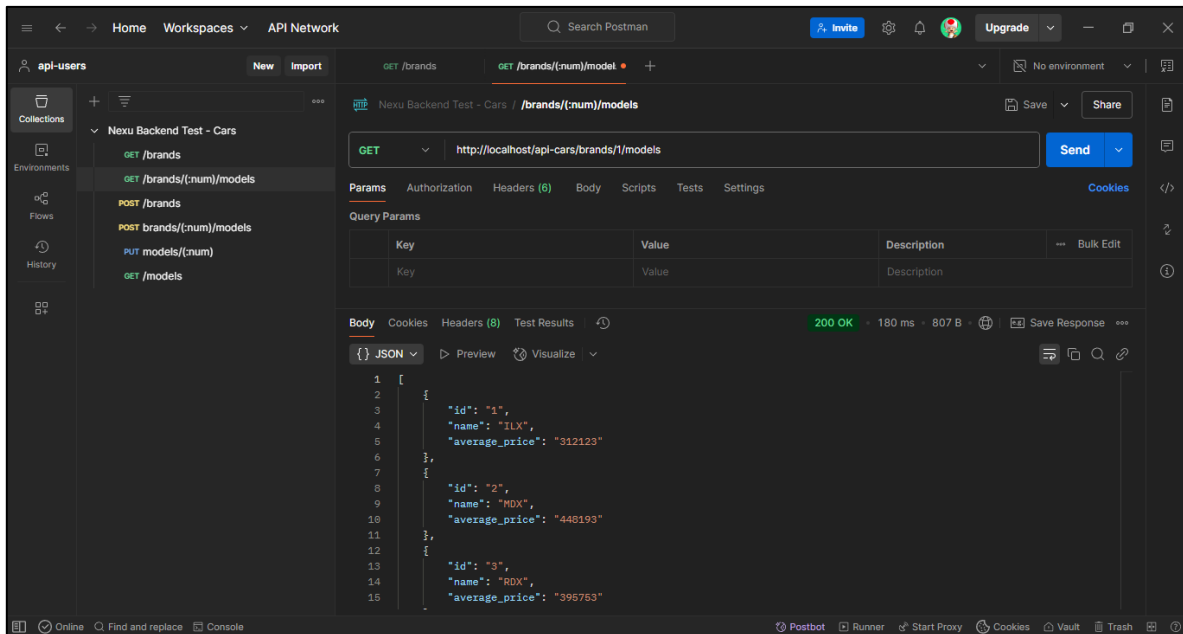
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Unit test for “API-CARS”

2. GET /brands/(:id)/models

List all models of the brand.

URL: <http://localhost/api-cars/brands/1/models>



Unit test for “API-CARS”

3. POST /brands

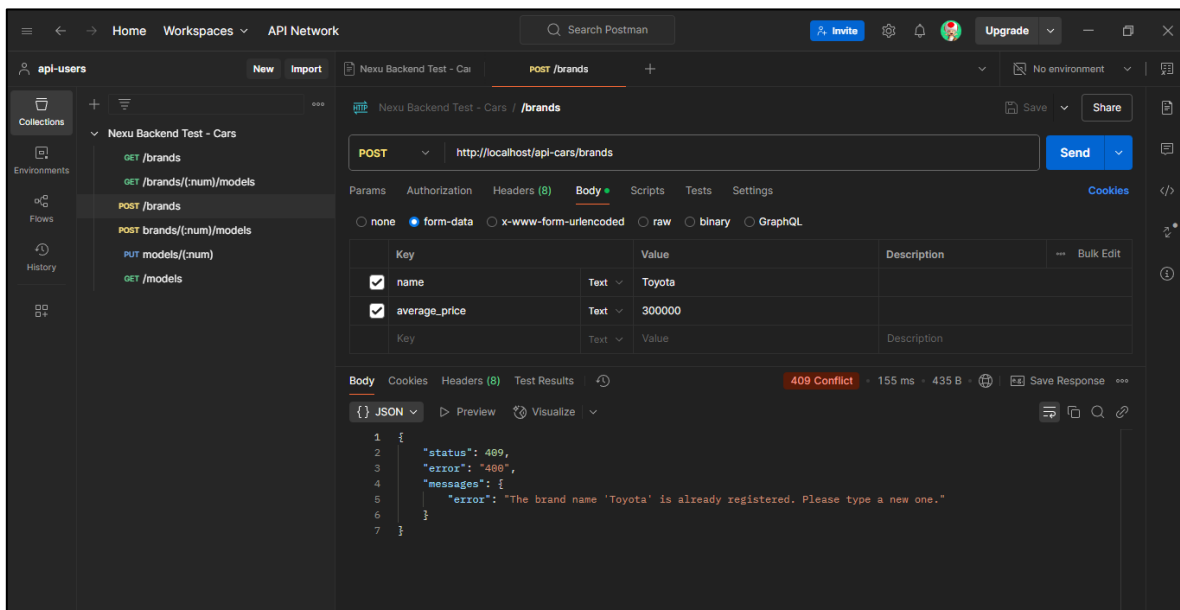
Add new brands.

URL: <http://localhost/api-cars/brands>

Parameters:

- name:Toyota
- average_price:300000

If a brand name is already in use return a response code and error message:

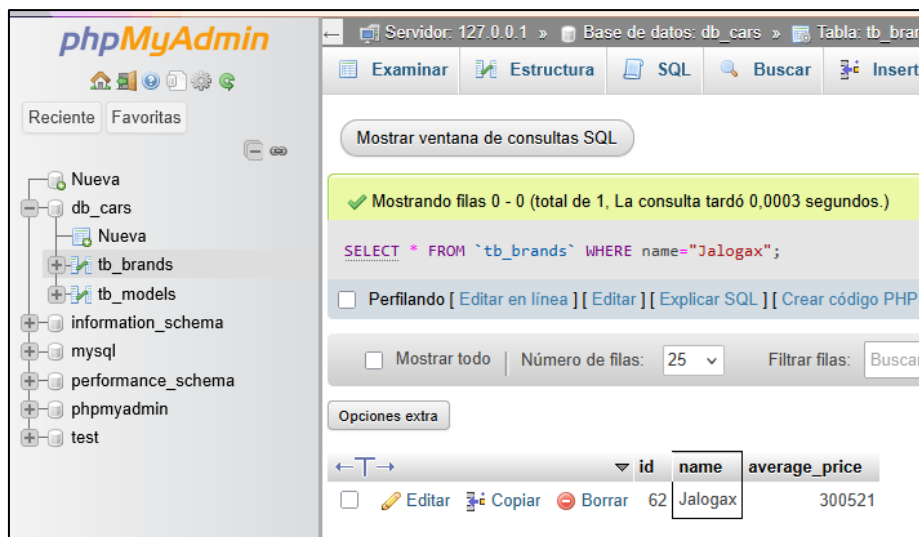
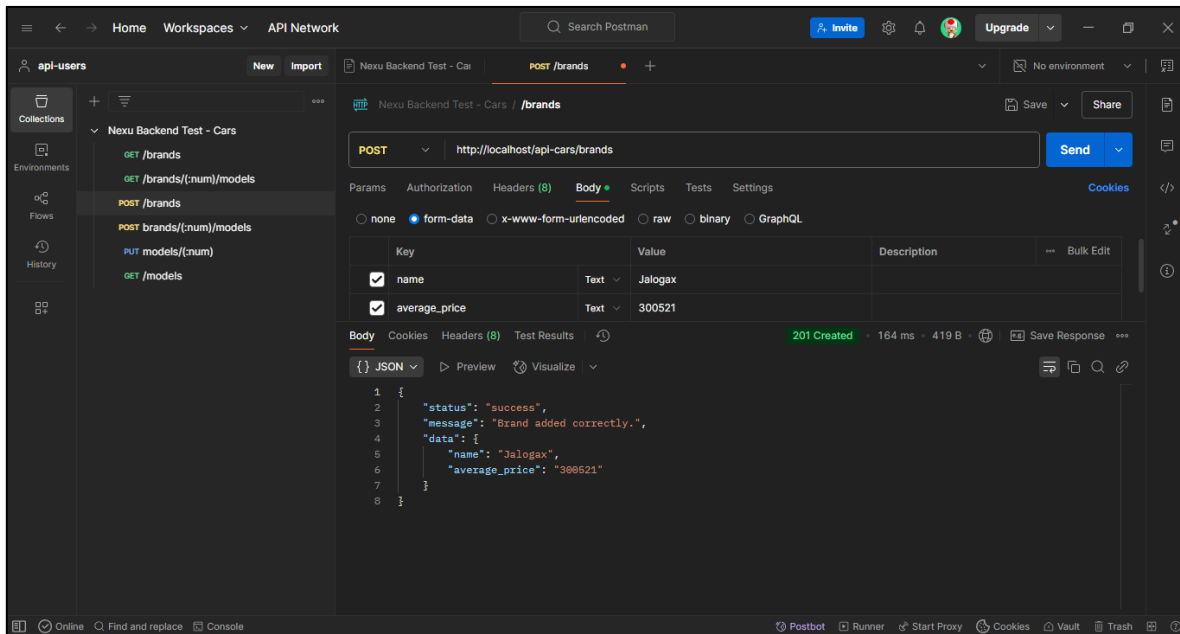


A brand name must be unique:

Parameters:

- name:Jalogax
- average_price:300521

Unit test for “API-CARS”



4. POST brands/(`:id`)/models

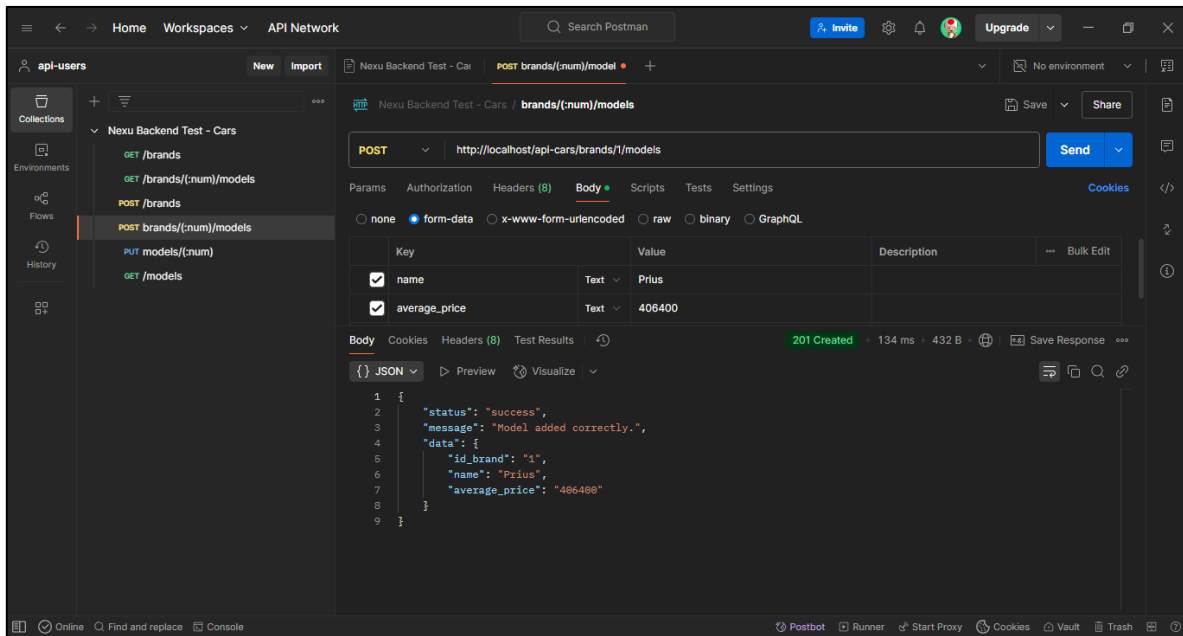
Add new model to a brand.

URL: <http://localhost/api-cars/brands/1/models>

Parameters:

- name:Prius
- average_price:406400

Unit test for “API-CARS”

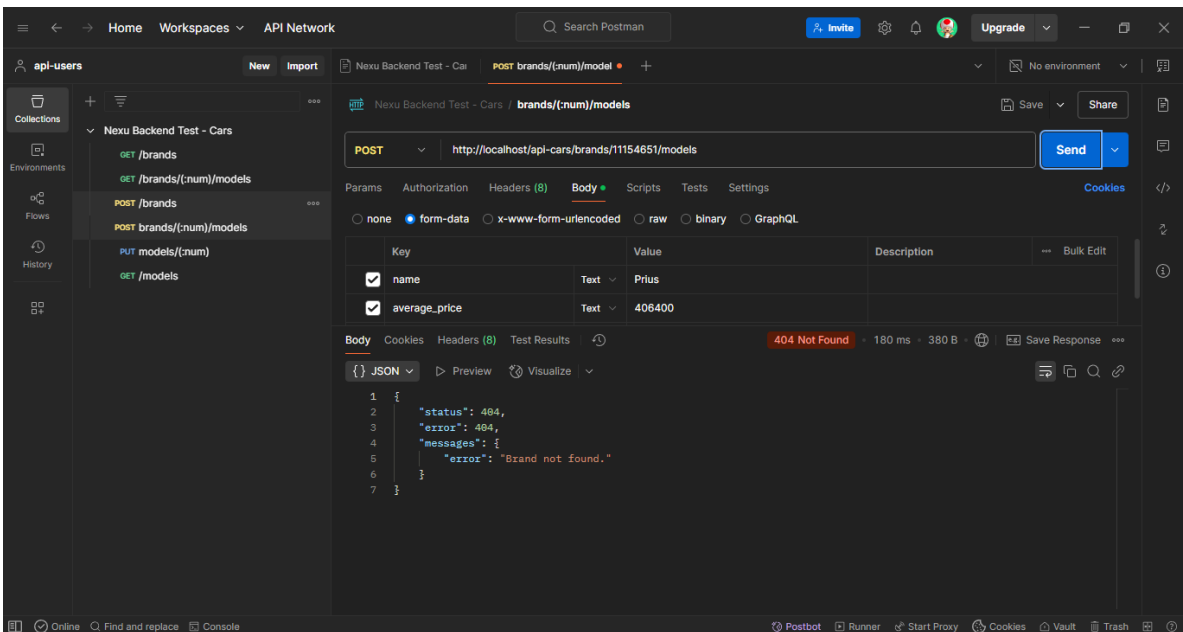


If the brand id doesn't exist return a response code and error message:

URL: <http://localhost/api-cars/brands/11154651/models>

Parameters:

- name:Prius
- average_price:406400



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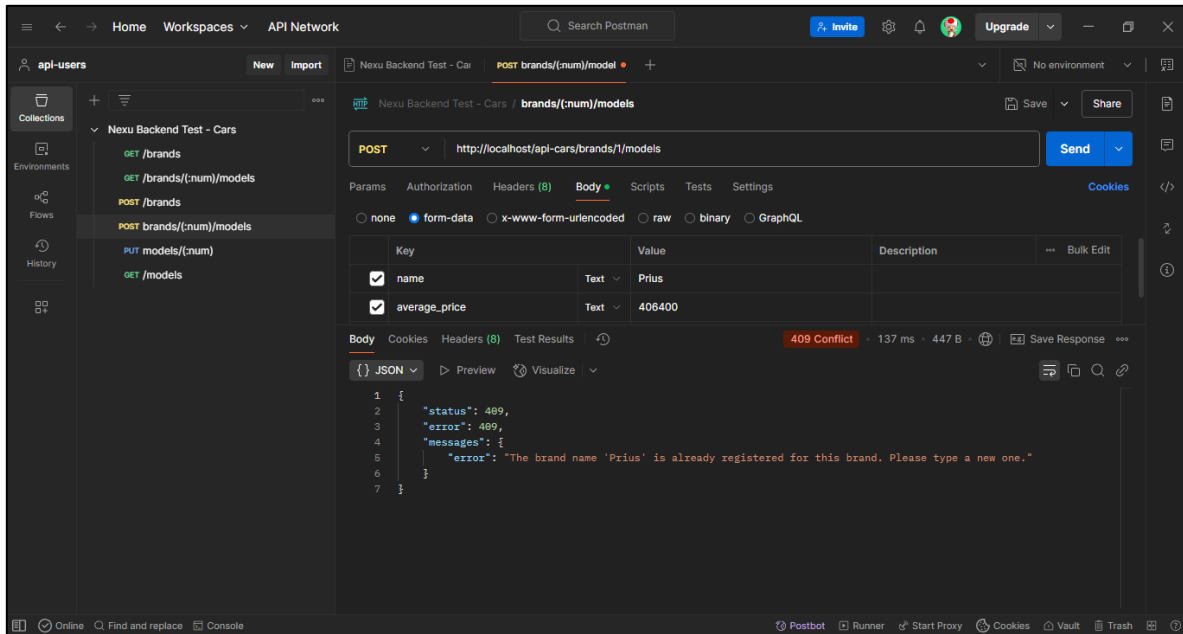
Unit test for “API-CARS”

A model name must be unique inside a brand. If the model name already exists for that brand return a response code and error message reflecting it.

URL: <http://localhost/api-cars/brands/1/models>

Parameters:

- name:Prius
- average_price:406400



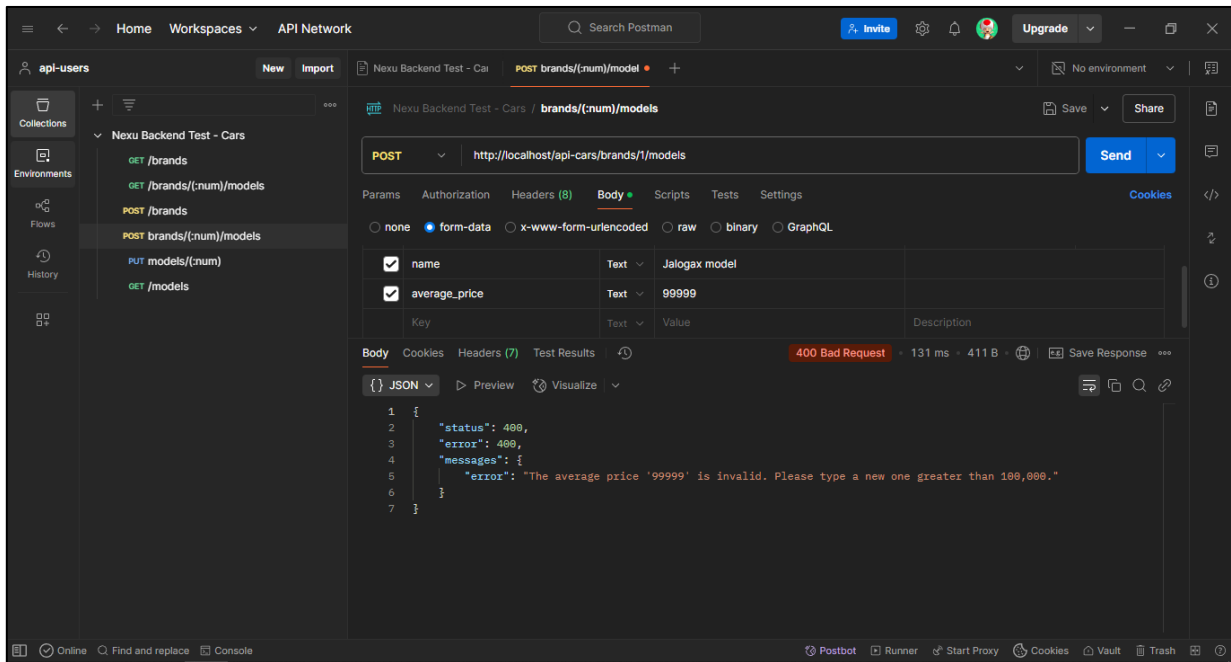
Average price is optional; if supply it must be greater than 100,000.

URL: <http://localhost/api-cars/brands/1/models>

Parameters:

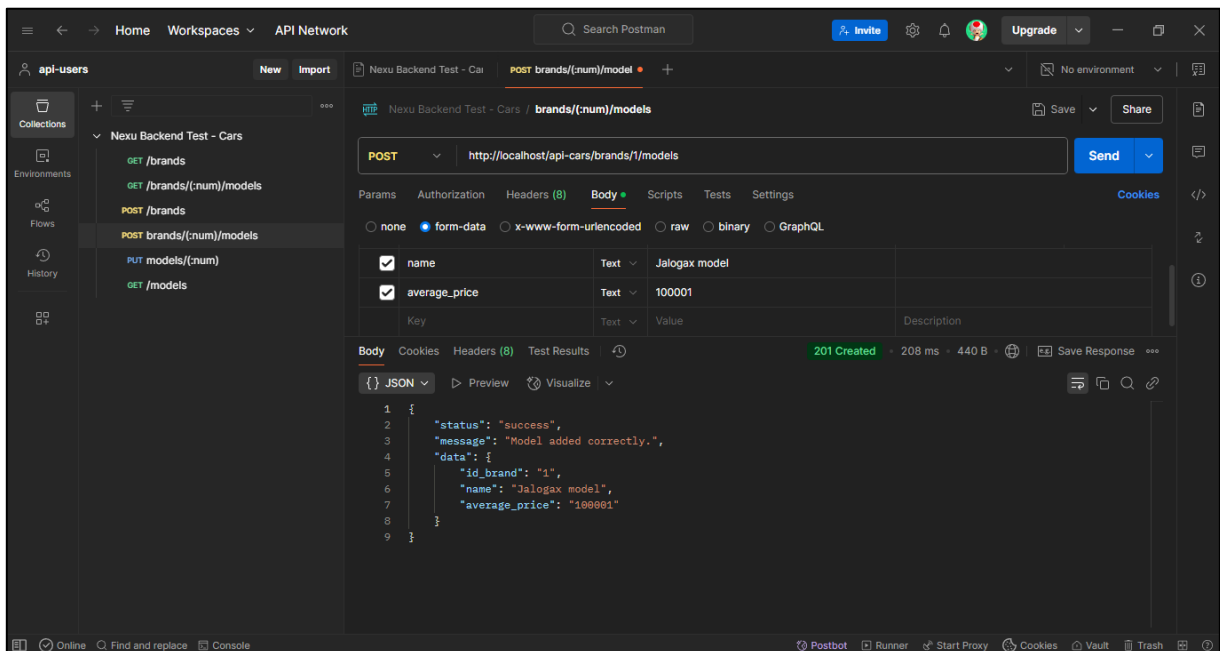
- name:Jalogax model
- average_price:999999

Unit test for “API-CARS”



Parameters:

- name:Jalogax model
- average_price:100001



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Unit test for "API-CARS"

	id	id_brand	name	average_price
<input type="checkbox"/> Editar Copiar Borrar	1	1	ILX	312123
<input type="checkbox"/> Editar Copiar Borrar	2	1	MDX	448193
<input type="checkbox"/> Editar Copiar Borrar	3	1	RDX	395753
<input type="checkbox"/> Editar Copiar Borrar	4	1	RLX	453100
<input type="checkbox"/> Editar Copiar Borrar	5	1	TL	247225
<input type="checkbox"/> Editar Copiar Borrar	6	1	TSX	232533
<input type="checkbox"/> Editar Copiar Borrar	354	1	RL	239050
<input type="checkbox"/> Editar Copiar Borrar	355	1	ZDX	405550
<input type="checkbox"/> Editar Copiar Borrar	665	1	TLX	478290
<input type="checkbox"/> Editar Copiar Borrar	1264	1	NSX	3818225
<input type="checkbox"/> Editar Copiar Borrar	1741	1	Prius	406400
<input type="checkbox"/> Editar Copiar Borrar	1742	1	Jalogax model	100001

5. PUT models/(id)

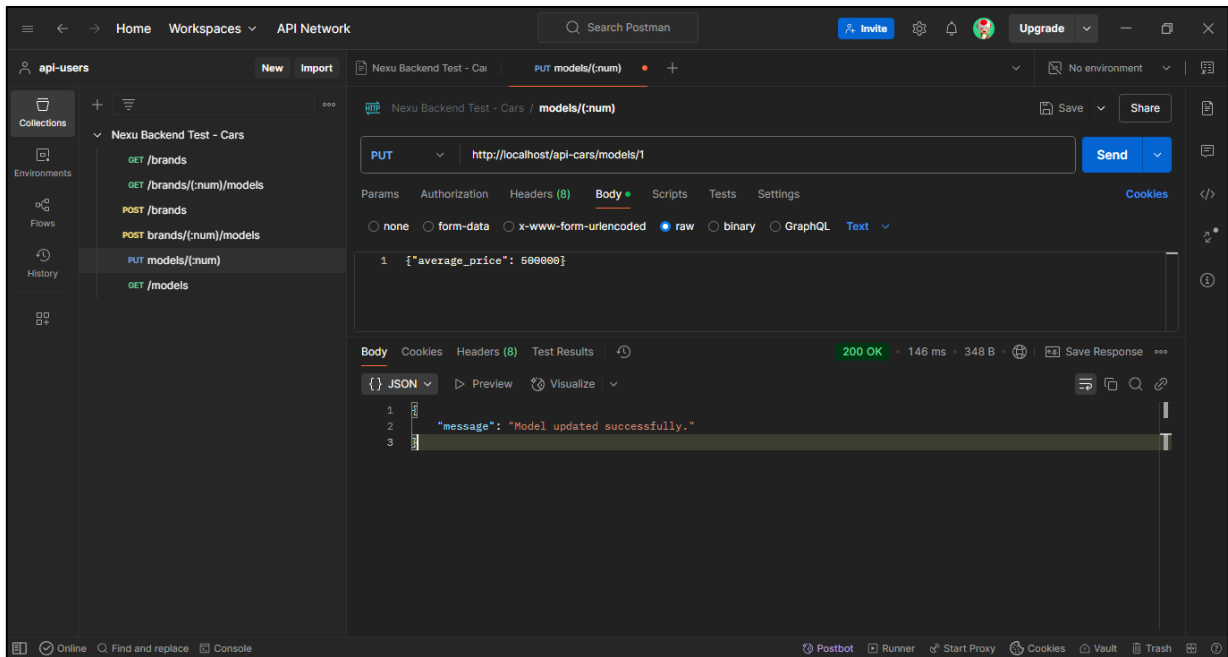
Update the average price of a model.

URL: <http://localhost/api-cars/models/1>

Parameters:

- {"average_price": 500000}

Unit test for “API-CARS”

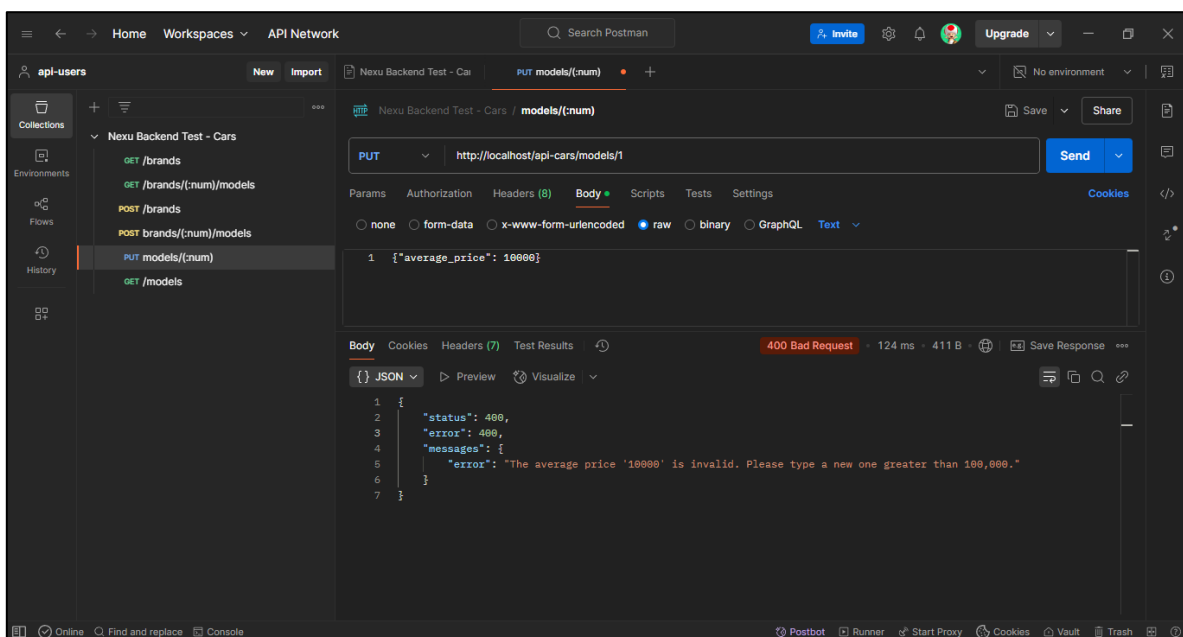


The average_price must be greater then 100,000.

URL: <http://localhost/api-cars/models/1>

Parameters:

- `{ "average_price": 500000 }`



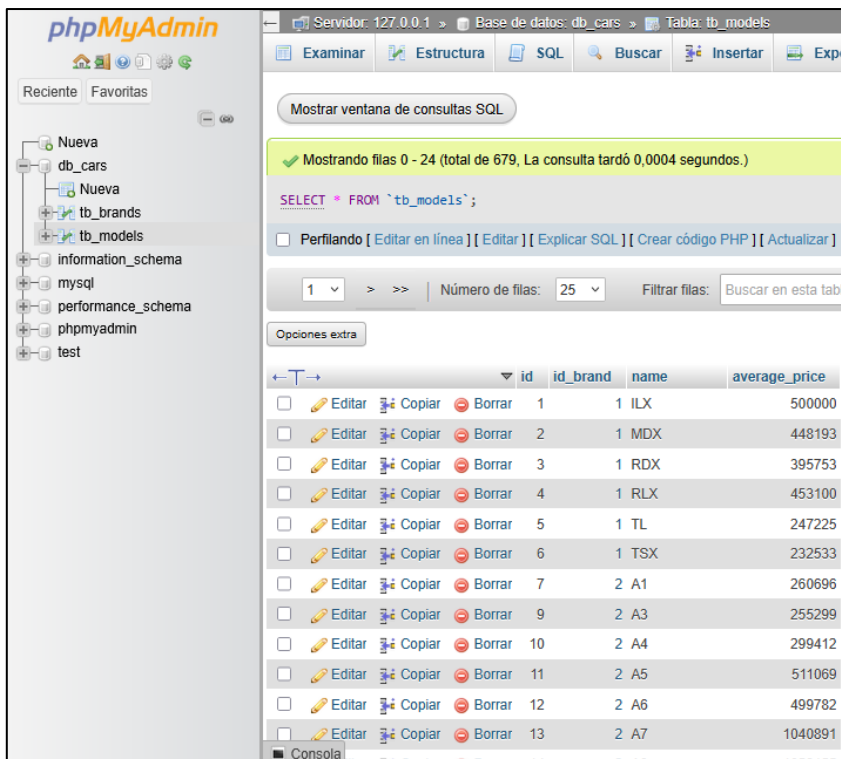
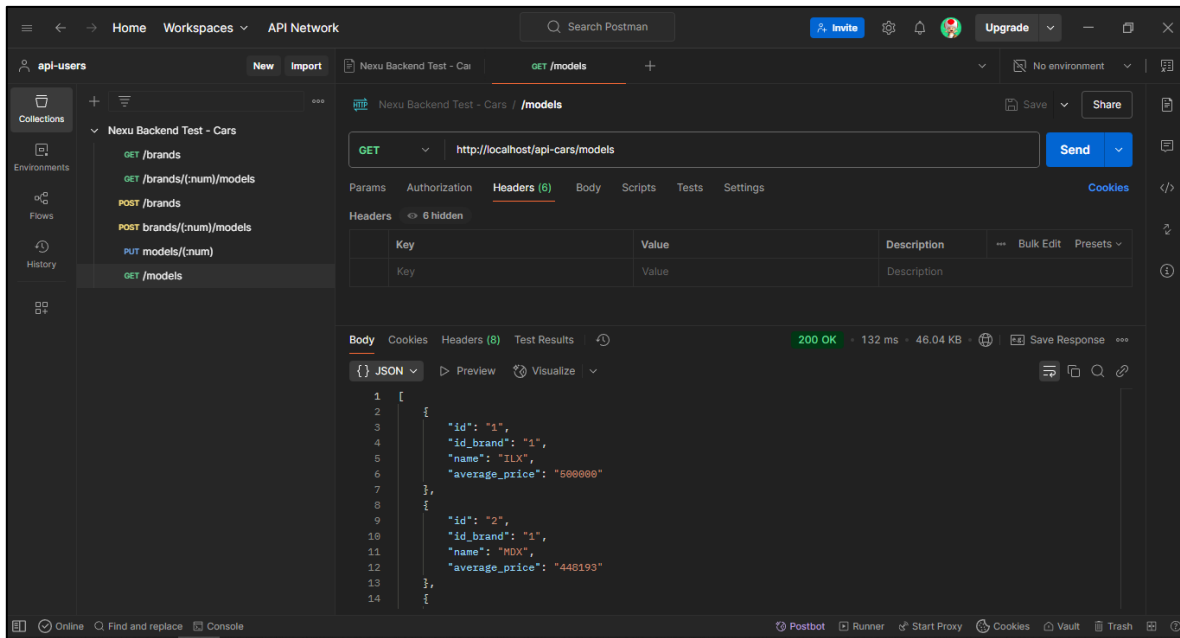
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Unit test for “API-CARS”

6. GET /models

List all models.

URL: <http://localhost/api-cars/models>



Unit test for "API-CARS"

If greater param is included show all models with average_price greater than the param. If lower param is included show all models with average_price lower than the param.

URL: <http://localhost/api-cars/models?greater=380000&lower=400000>

The screenshot shows the Postman interface with a GET request to `http://localhost/api-cars/models?greater=380000&lower=400000`. The response is a 200 OK status with a JSON body containing two car models.

```
1 {
2   {
3     "id": "3",
4     "id_brand": "1",
5     "name": "RDX",
6     "average_price": "395753"
7   },
8   {
9     "id": "171",
10    "id_brand": "18",
11    "name": "Wrangler",
12    "average_price": "396757"
13  },
14 }
```

The screenshot shows the phpMyAdmin interface with the SQL query `SELECT * FROM `tb_models` WHERE average_price > 380000 and average_price < 400000` executed. The results show 8 rows of data.

	id	id_brand	name	average_price
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	3	1	RDX	395753
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	171	18	Wrangler	396757
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	194	24	CX9	383370
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	382	4	X3	398124
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	737	57	SEI2	383714
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	1526	18	Renegade	396920
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	1542	43	ELF 200	380933
<input type="checkbox"/> Editar <input type="checkbox"/> Copiar <input type="checkbox"/> Borrar	1547	30	Ram Promaster	389350