

Uso de API REST CRUD nodepop

Para poder acceder a los productos, pudiendo publicar, borrar etc, necesitas estar registrado, para ello, tienes que acceder a través de la ruta de entrada de la pagina donde este colgada la aplicación, mas la terminación /api/users/signup

Esto te permite registrarte dentro de la pagina, una vez registrado, si quieres volver a entrar, se hace a través de /api/users/signin, no he permitido que se pueda acceder a la lista de usuarios para mayor seguridad, solo se puede acceder a ella a través de la base de datos de mongoDB. El usuario al ser registrado recibe un token, que deberá ser enviado por la cabecera de las peticiones para ser autenticado a la par que la contraseña, el nombre y el email. Dicho token caduca en 14 días, después de eso no podrá tener acceso a la aplicación.

The screenshot shows a REST client interface with a POST request to `http://localhost:3000/api/users/signup`. The request body is `x-www-form-urlencoded` with the following data:

Key	Value
name	dummie
email	dum@gmail.com
password	test

The response is a JSON object:

```
{  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJlbnhkdCI6MTQ5NTM1NTgwNiwiZXhwIjoxNDk2NTY1NDA2fQ.B98CdAtrnIMoggX_sAUDgUgK1tF8laSvHp6s1-ILx7g"}
```

Status: 200 OK, Time: 256 ms, Size: 364 B.

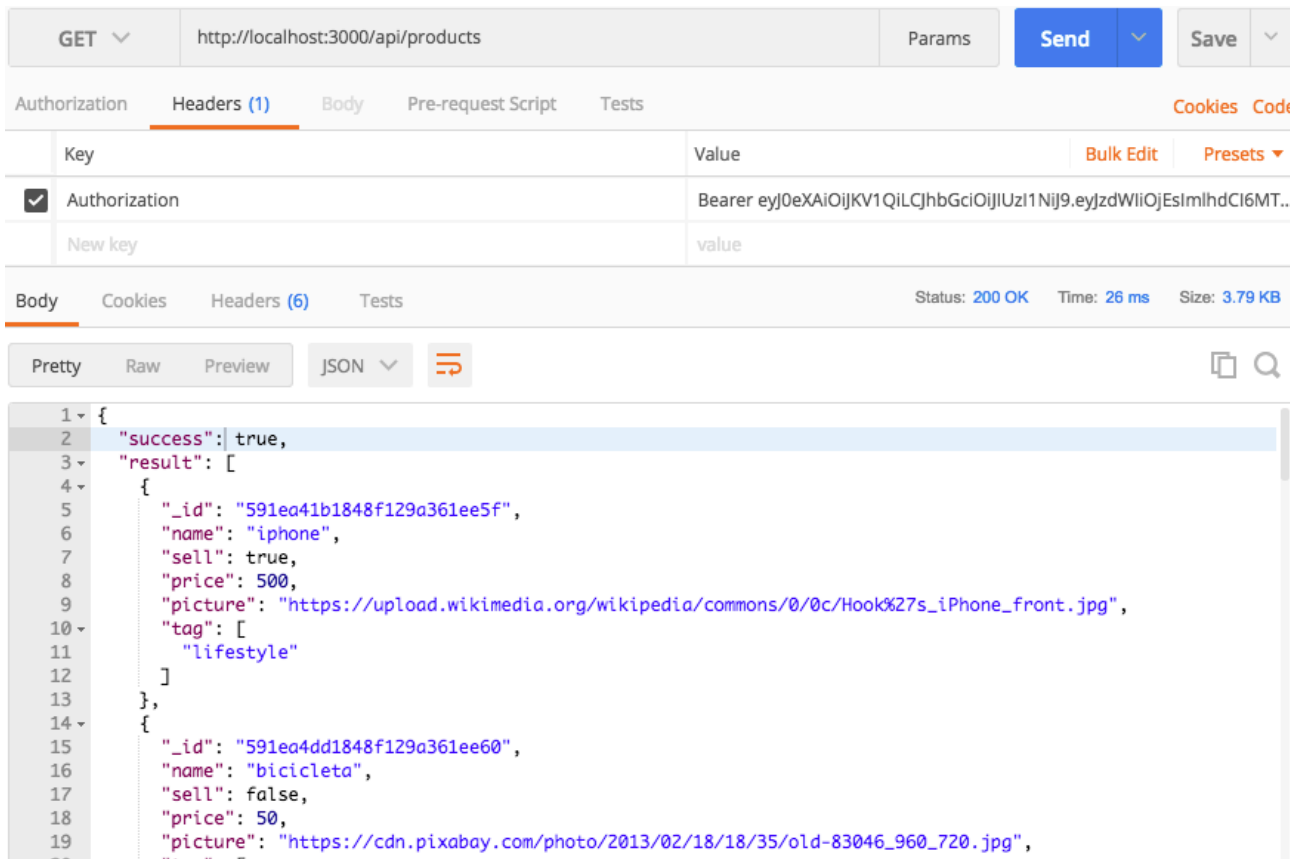
En la aplicación, para poder registrarse necesitas OBLIGATORIAMENTE tres campos, nombre, email y password, como se puede ver en la imagen, se devuelve un token para el cliente registrado. Si intentamos acceder a los productos sin estar registrado salta un error.

The screenshot shows a REST client interface with a GET request to `http://localhost:3000/api/products`. The request is unauthorized (No Auth). The response is a JSON object:

```
{  "success": false,  "message": "NO PUEDES PASAR"}
```

Status: 200 OK, Time: 26 ms, Size: 257 B.

Para acceder tenemos que pasar el token en la cabecera precedido de Bearer y en la clave Authorization.





GET ▼ http://localhost:3000/api/products Params Send ▼ Save ▼

Authorization Headers (1) Body Pre-request Script Tests Cookies Code

Key	Value	Bulk Edit	Presets ▼
<input checked="" type="checkbox"/> Authorization	Bearer eyJ0eXAiOiJV1QilCjhbGciOiJIUzI1NiJ9.eyJzdWIiOiJEsImhhdCI6MT..		
New key	value		

Body Cookies Headers (6) Tests Status: 200 OK Time: 26 ms Size: 3.79 KB

Pretty Raw Preview JSON ▼  

```
1 {
2   "success": true,
3   "result": [
4     {
5       "_id": "591ea41b1848f129a361ee5f",
6       "name": "iphone",
7       "sell": true,
8       "price": 500,
9       "picture": "https://upload.wikimedia.org/wikipedia/commons/0/0c/Hook%27s_iPhone_front.jpg",
10      "tag": [
11        "lifestyle"
12      ]
13    },
14    {
15      "_id": "591ea4dd1848f129a361ee60",
16      "name": "bicicleta",
17      "sell": false,
18      "price": 50,
19      "picture": "https://cdn.pixabay.com/photo/2013/02/18/18/35/old-83046_960_720.jpg",
```

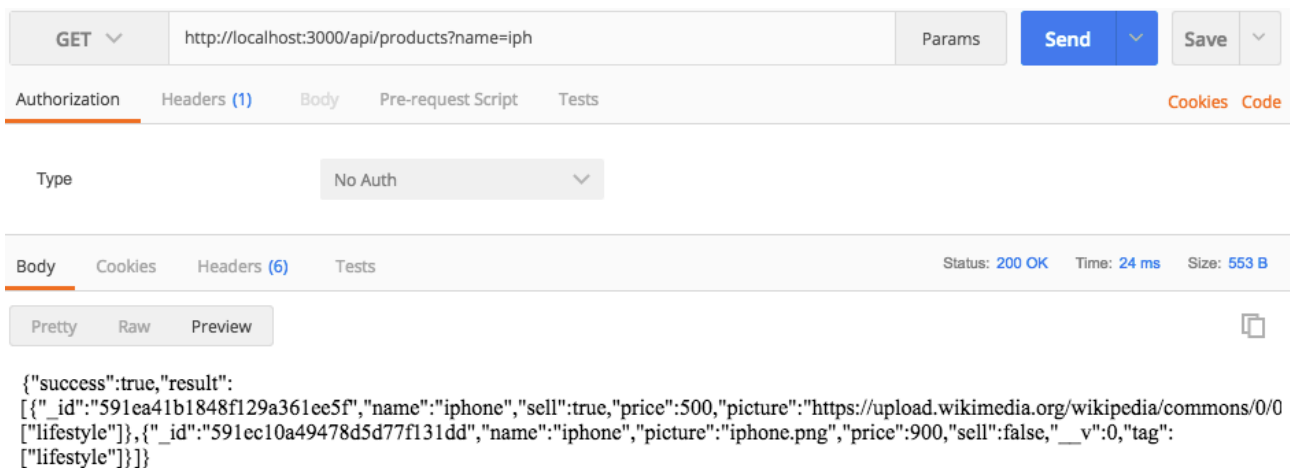
Para poder interactuar con los productos en la base de datos, hemos de acceder a la dirección de entrada a la aplicación mas /api/products agregando después a dicha dirección el método a usar

Para ver la lista de productos:

/api/products/

Si queremos aplicar filtros de búsqueda, se hacen de la siguiente manera:

?name=productoA Encontrar si el nombre tiene algunas de las letras, y coinciden se devolverá una lista de productos, que contentan las letras en el orden que se hayan introducido.




GET ▼ http://localhost:3000/api/products?name=iph Params Send ▼ Save ▼

Authorization Headers (1) Body Pre-request Script Tests Cookies Code

Type No Auth ▼

Body Cookies Headers (6) Tests Status: 200 OK Time: 24 ms Size: 553 B

Pretty Raw Preview 

```
{"success":true,"result":
[{"_id":"591ea41b1848f129a361ee5f","name":"iphone","sell":true,"price":500,"picture":"https://upload.wikimedia.org/wikipedia/commons/0/0c/Hook%27s_iPhone_front.jpg",
["lifestyle"]},{ "_id":"591ec10a49478d5d77f131dd","name":"iphone","picture":"iphone.png","price":900,"sell":false,"__v":0,"tag":
["lifestyle"]}]}
```

Filtrar mediante precios, se usa mediante ?price=Precio. El precio te da una lista de los artículos que hay en dentro de ese precio, con rangos de menos de 10, entre 10 y 50, menores de 50, y mayores de 50

GET

http://localhost:3000/api/products?price=20

Params

Send

Save

AuthorizationHeaders (1)BodyPre-request ScriptTestsCookiesCode

TypeNo Auth

BodyCookiesHeaders (6)TestsStatus: 200 OKTime: 11 msSize: 774 B

PrettyRawPreview

```
{
  "success": true,
  "result": [
    {
      "_id": "59214519f8126409874f5eca",
      "name": "estanteria",
      "picture": "estanteria.png",
      "price": 17,
      "sell": true,
      "__v": 0,
      "tag": ["lifestyle"]
    },
    {
      "_id": "591ea4dd1848f129a361ee60",
      "name": "bicicleta",
      "sell": false,
      "price": 50,
      "picture": "https://cdn.pixabay.com/photo/2013/02/18/18/35/old-83046_960_720.jpg",
      "tag": ["lifestyle"]
    },
    {
      "_id": "591ea54c1848f129a361ee62",
      "name": "Laptop Doctor",
      "sell": true,
      "price": 50,
      "picture": "http://maxpixel.freecatpicture.com/static/photo/1x/Notebook-Mouse-Laptop-Key-board-Stethoscope-1385702.jpg",
      "tag": ["lifestyle"]
    }
  ]
}
```

Filtrar mediante etiquetas ?tag=tagABuscar. Esto te devuelve solo los artículos que contienen dicha etiqueta, solo se pueden acceder a 4 etiquetas, motor, lifestyle, mobile y work.

GET	http://localhost:3000/api/products?tag=motor	Params	Send	Save
Authorization	Headers (1)	Body	Pre-request Script	Tests
Type: No Auth				
Status: 200 OK Time: 17 ms Size: 501 B				
Pretty Raw Preview				
<pre>{ "success": true, "result": [{ "_id": "592004da232fa3222385806c", "name": "suzuki", "picture": "suzu.png", "price": 2351, "sell": false, "__v": 0, "tag": ["motor"] }, { "_id": "592144bef8126409874f5ec8", "name": "juguete suzuki", "picture": "suzu.png", "price": 5, "sell": true, "__v": 0, "tag": ["motor", "lifestyle"] }] }</pre>				

GET	http://localhost:3000/api/products?tag=mobile	Params	Send	Save
Authorization	Headers (1)	Body	Pre-request Script	Tests
Type: No Auth				
Status: 200 OK Time: 60 ms Size: 359 B				
Pretty Raw Preview				
<pre>{ "success": true, "result": [{ "_id": "592144faf8126409874f5ec9", "name": "note", "picture": "note.png", "price": 500, "sell": true, "__v": 0, "tag": ["mobile"] }] }</pre>				

GET	http://localhost:3000/api/products?tag=lifestyle	Params	Send	Save
Authorization	Headers (1)	Body	Pre-request Script	Tests
Type: No Auth				
Status: 200 OK Time: 31 ms Size: 2.92 KB				
Pretty Raw Preview				
<pre>{ "success": true, "result": [{ "_id": "591ea41b1848f129a361ee5f", "name": "iphone", "sell": true, "price": 500, "picture": "https://upload.wikimedia.org/wikipedia/com", "tag": ["lifestyle"] }, { "_id": "591ea4dd1848f129a361ee60", "name": "bicicleta", "sell": false, "price": 50, "picture": "https://cdn.pixabay.com/photo/2013/02/18/183046_960_720.jpg", "tag": ["lifestyle"] }, { "_id": "591ea4ed1848f129a361ee61", "name": "lamborghini", "sell": true, "price": 500000, "picture": "https://cdn.pixabay.com/photo/2013/194484_960_720.jpg", "tag": ["lifestyle"] }, { "_id": "591ea54c1848f129a361ee62", "name": "Laptop Doctor", "sell": true, "price": 50, "picture": "http://maxpixel.freegreatpicture.com/static/photo/1x/Notebook-Mouse-Laptop-Keyboar", "tag": ["lifestyle"] }, { "_id": "591ec04049478d5d77f131db", "name": "ferrari", "picture": "ferrari", "price": 100000, "sell": true, "__v": 0, "tag": ["lifestyle"] }, { "_id": "591ec0b149478d5d77f131dc", "name": "note", "picture": "https://upload.wikimedia.org/wikipedia/commons/d/d7/Samsung_Gal", "tag": ["lifestyle"] }, { "_id": "591ec10a49478d5d77f131dd", "name": "iphone", "picture": "iphone.png", "price": 900, "sell": false, "__v": 0, "tag": ["lifestyle"] }, { "_id": "591ec6e04990176376075e51", "name": "moto", "picture": "https://cdn.pixabay.com/photo/2015/04/06/00/11/moto-708776_960_720.png", "price": 900, "sell": true, "__v": 0, "tag": ["lifestyle"] }, { "_id": "591ec6f34990176376075e52", "name": "moto", "picture": "https://cdn.pixabay.com/photo/2015/04/06/00/11/moto-708776_960_720.png", "price": 900, "sell": true, "__v": 0, "tag": ["lifestyle"] }, { "_id": "591ec7052f07536409a6cda5", "name": "moto", "picture": "https://cdn.pixabay.com/photo/2015/04/06/00/11/moto-708776_960_720.png", "price": 900, "sell": true, "__v": 0, "tag": ["lifestyle"] }, { "_id": "591eceb601a86a69d20caff4", "name": "moto", "picture": "https://cdn.pixabay.com/photo/2015/04/06/00/11/moto-708776_960_720.png", "price": 900, "sell": true, "__v": 0, "tag": ["lifestyle"] }] }</pre>				

GET

http://localhost:3000/api/products?tag=work

Params

Send

Save

Authorization

Headers (1)

Body

Pre-request Script

Tests

Cookies

Code

Type

No Auth

Body

Cookies

Headers (6)

Tests

Status: 200 OK

Time: 8 ms

Size: 361 B

Pretty

Raw

Preview

```
{
  "success": true,
  "result": [
    {
      "_id": "5921475004545e0f0f5fe979",
      "name": "doc laptop",
      "picture": "doc.png",
      "price": 75,
      "sell": true,
      "__v": 0,
      "tag": ["work"]
    }
  ]
}
```

Ademas de filtrar se puede saltar articulos, mediante skip=numeroDeArticulosASaltar

GET

http://localhost:3000/api/products?tag=lifestyle&skip=1

Params

Send

Save

Authorization

Headers (1)

Body

Pre-request Script

Tests

Cookies

Code

Type

No Auth

Body

Cookies

Headers (6)

Tests

Status: 200 OK

Time: 12 ms

Size: 2.74 KB

Pretty

Raw

Preview

```
{
  "success": true,
  "result": [
    {
      "_id": "591ea4dd1848f129a361ee60",
      "name": "bicicleta",
      "sell": false,
      "price": 50,
      "picture": "https://cdn.pixabay.com/photo/2013/02/18/83046_960_720.jpg",
      "tag": ["lifestyle"]
    },
    {
      "_id": "591ea4ed1848f129a361ee61",
      "name": "lamborghini",
      "sell": true,
      "price": 500000,
      "picture": "https://cdn.pixabay.com/photo/2013/194484_960_720.jpg",
      "tag": ["lifestyle"]
    },
    {
      "_id": "591ea54c1848f129a361ee62",
      "name": "Laptop Doctor",
      "sell": true,
      "price": 50,
      "picture": "http://maxpixel.freegreatpicture.com/static/photo/1x/Notebook-Mouse-Laptop-Key-board-Stethoscope-1385702.jpg",
      "tag": ["lifestyle"]
    },
    {
      "_id": "591ec04049478d5d77f131db",
      "name": "ferrari",
      "picture": "ferrari",
      "price": 100000,
      "sell": true,
      "__v": 0,
      "tag": ["lifestyle"]
    },
    {
      "_id": "591ec0b149478d5d77f131dc",
      "name": "note",
      "picture": "https://upload.wikimedia.org/wikipedia/commons/d/d7/Samsung_Galaxy_S4_mini.jpg",
      "tag": ["lifestyle"]
    },
    {
      "_id": "591ec10a49478d5d77f131dd",
      "name": "iphone",
      "picture": "iphone.png",
      "price": 900,
      "sell": false,
      "__v": 0,
      "tag": ["lifestyle"]
    }
  ]
}
```

También podemos ordenar la lista que se devuelve, mediante el modificador sort que ordena alfabéticamente letras y numéricamente los números.

GET

http://localhost:3000/api/products?tag=lifestyle&sort=name

Params

Send

Save

AuthorizationHeaders (1)BodyPre-request ScriptTestsCookiesCode

TypeNo Auth

BodyCookiesHeaders (6)TestsStatus: 200 OKTime: 19 msSize: 3.05 KB

PrettyRawPreview

```
{"success":true,"result":[{"_id":"591ea54c1848f129a361ee62","name":"Laptop Doctor","sell":true,"price":50,"picture":"http://maxpixel.freegreatpicture.com/static/photo/1x/Notebook-Mouse-Laptop-Keyboard-Stethoscope-1385702.jpg","tag":["lifestyle"]}, {"_id":"592148a204545e0f0f5fe97a","name":"abecedario","picture":"abecedario","price":3,"sell":true,"__v":0,"tag":["lifestyle"]}, {"_id":"591ea4dd1848f129a361ee60","name":"bicicleta","sell":false,"price":50,"picture":"https://cdn.pixabay.com/photo/2013/02/18/183046_960_720.jpg","tag":["lifestyle"]}, {"_id":"59214534f8126409874f5ecb","name":"caramelos","picture":"caramelos","price":1,"sell":true,"__v":0,"tag":["lifestyle"]}, {"_id":"59214519f8126409874f5eca","name":"estanteria","picture":"estanteria.png","price":17,"sell":true,"__v":0,"tag":["lifestyle"]}, {"_id":"591ec04049478d5d77f131db","name":"ferrari","picture":"ferrari","price":100000,"sell":true,"__v":0,"tag":["lifestyle"]}, {"_id":"591ea41b1848f129a361ee6f","name":"ishara","sell":true,"price":500,"picture":"https://upload.wikimedia.org/wikipedia/commons/4/4d/Samsung_Galaxy_Note_3.jpg","tag":["lifestyle"]}]}
```

Poniendo el modificador ?sell=ventaOBusqueda. Devuelve los productos en venta o que se buscan

GET

http://localhost:3000/api/products?sell=false

Params

Send

Save

AuthorizationHeaders (1)BodyPre-request ScriptTestsCookiesCode

TypeNo Auth

BodyCookiesHeaders (6)TestsStatus: 200 OKTime: 28 msSize: 1008 B

PrettyRawPreview

```
{"success":true,"result":[{"_id":"591ea4dd1848f129a361ee60","name":"bicicleta","sell":false,"price":50,"picture":"https://cdn.pixabay.com/photo/2013/02/18/183046_960_720.jpg","tag":["lifestyle"]}, {"_id":"591ec0b149478d5d77f131dc","name":"note","picture":"https://upload.wikimedia.org/wikipedia/commons/d/d7/Samsung_Galaxy_Note_3.jpg","tag":["lifestyle"]}, {"_id":"591ec10a49478d5d77f131dd","name":"iphone","picture":"iphone.png","price":900,"sell":false,"__v":0,"tag":["lifestyle"]}, {"_id":"591f10f7473a2209b9e4dcac","name":"suzuki","picture":"suzuki.png","price":900,"sell":false,"__v":0,"tag":["lifestyle"]}, {"_id":"592004da232fa3222385806c","name":"suzuki","picture":"suzu.png","price":2351,"sell":false,"__v":0,"tag":["motor"]}]}
```

Podemos combinar modificadores también, para filtrar mas las búsquedas, solo tenemos que usar el filtro que queremos hacer mas &

GET Params Send Save

Authorization Headers (1) Body Pre-request Script Tests Cookies Code

Type No Auth

Body Cookies Headers (6) Tests Status: 200 OK Time: 10 ms Size: 595 B

Pretty Raw Preview

```
{
  "success": true,
  "result": [
    {
      "_id": "59214519f8126409874f5eca",
      "name": "estanteria",
      "picture": "estanteria.png",
      "price": 17,
      "sell": true,
      "__v": 0,
      "tag": ["lifestyle"]
    },
    {
      "_id": "591ea54c1848f129a361ee62",
      "name": "Laptop Doctor",
      "sell": true,
      "price": 50,
      "picture": "http://maxpixel.freecatpicture.com/static/photo/1x/Notebook-Mouse-Laptop-Keyboard-Stethoscope-1385702.jpg",
      "tag": ["lifestyle"]
    }
  ]
}
```

También podemos limitar los artículos devueltos, con el modificador limit=numeroALimitar

http://localhost:3000/ x + No Environment

GET Params Send Save

Authorization Headers (1) Body Pre-request Script Tests Cookies Code

Type No Auth

Body Cookies Headers (6) Tests Status: 200 OK Time: 7 ms Size: 425 B

Pretty Raw Preview

```
{
  "success": true,
  "result": [
    {
      "_id": "591ea41b1848f129a361ee5f",
      "name": "iphone",
      "sell": true,
      "price": 500,
      "picture": "https://upload.wikimedia.org/wikipedia/com",
      "tag": ["lifestyle"]
    }
  ]
}
```

Para obtener, publicar, borrar y actualizar los artículos hemos puesto la restricción de que el usuario ha de estar registrado, y haber entrado para poder hacer modificaciones se accede de la siguiente manera:

Publicar, mediante post en la ruta /api/products y se ponen tantos campos para publicar el artículo como sean requeridos. Para poder publicar un anuncio se han de poner OBLIGATORIAMENTE:

Name

Sell

Price

Tag

Se pueden poner mas de 1 etiqueta como se puede ver

POST ▼ http://localhost:3000/api/products Params Send ▼ Save ▼

Authorization Headers (1) **Body** ● Pre-request Script Tests Cookies Code

☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary

	Key	Value	Bulk Edit
<input checked="" type="checkbox"/>	name	abecedario	
<input checked="" type="checkbox"/>	picture	abecedario	
<input checked="" type="checkbox"/>	price	3	
<input checked="" type="checkbox"/>	sell	true	
<input checked="" type="checkbox"/>	tag	lifestyle	
<input checked="" type="checkbox"/>	tag	mobile	×
	New key	value	

Body Cookies Headers (6) Tests Status: 200 OK Time: 7 ms Size: 425 B

Pretty Raw Preview 📄

```
{"success":true,"result":
[{"_id":"591ea41b1848f129a361ee5f","name":"iphone","sell":true,"price":500,"picture":"https://upload.wikimedia.org/wikipedia/com
["lifestyle"]}]}
```


Actualizar, mediante put en la ruta /api/products/:idDelProductoAActualizar

PUT http://localhost:3000/api/products/59214c8a04545e0f0f5fe97c Params Send Save

Authorization Headers (1) Body Pre-request Script Tests Cookies

☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary

Key	Value
<input checked="" type="checkbox"/> name	Harley actualizada
<input checked="" type="checkbox"/> picture	harley.png
<input checked="" type="checkbox"/> price	3000
<input checked="" type="checkbox"/> sell	false
<input checked="" type="checkbox"/> tag	motor
New key	value

Body Cookies Headers (6) Tests Status: 200 OK Time: 15 ms Size: 267 B

Pretty Raw Preview JSON

```
1 {
2   "success": true,
3   "product": {
4     "n": 0,
5     "nModified": 0,
6     "ok": 1
7   }
8 }
```

Borrado, mediante put en la ruta /api/products/:idDelProductoABorrar

DELETE http://localhost:3000/api/products/59214fa18c1966162c15ee0a Params Send Save

Body Cookies Headers (6) Tests Status: 200 OK Time: 11 ms Size: 253 B

Pretty Raw Preview JSON

```
1 {
2   "success": true,
3   "product": {
4     "n": 1,
5     "ok": 1
6   }
7 }
```

Arranque de la aplicación para los compañeros de sistemas:

Para el correcto arranque de la aplicación, es necesario arrancarla mediante el comando de nodemon, con `npm start` o bien, si se necesita mucha mas información, sobre los procesos con `npm run dev` que arranca en un modo especial.