Desarrollo Web

Back-end

Practica 3

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Sistemas Computacionales

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Requerimiento	Realizado
GET /products Filtro por parámetros de búsqueda.	Si
POST /products/cart	Si
GET /products/:id	Si
Middleware de autenticar	Si
POST /admin/products	Si
PUT /admin/products/:id	Si
DELETE /admin/products:id	Si
Código estructurado y modularizado **- Archivo de router global** **- Archivo de router para productos** - Archivo de router para endpoints de administrador de productos	Si
Manejo de archivos	Si

GET /products

```
### Get all products
Send Request | Comment Code | Improve Code
GET http://localhost:3000/products HTTP/1.1
```

```
Response(24ms) ✕

1   HTTP/1.1 200 OK
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 1440
5   ETag: W/"5a0-k+Ql77izsBMYG3BF09TckB9zlqk"
6   Date: Thu, 21 Mar 2024 18:53:40 GMT
7   Connection: close
8
9  ⌄ {
10 ⌄   "products": [
11 ⌄     {
12         "_uuid": "59ad9f41-f6fd-4445-a997-c57694b46e22",
13         "_title": "Tenis Nike",
14         "_description": "Tenis para correr en pista color rojo",
15         "_imageUrl": "https:",
16         "_unit": "par",
17         "_stock": 14,
18         "_pricePerUnit": 1334,
19         "_category": "Calzado"
20       },
21 ⌄     {
22         "_uuid": "71fefcab-ca80-4c74-a6f0-00a57b9ca3b2",
23         "_title": "SmartWatch",
24         "_description": "Reloj inteligente para runners",
25         "_imageUrl": "https:",
26         "_unit": "pieza",
27         "_stock": 20,
28         "_pricePerUnit": 29034,
29         "_category": "Electronica"
30       },
31 ⌄     {
32         "_uuid": "e4d09f09-f157-4e25-a32f-66fac8e33450",
33         "_title": "Termo de Agua",
34         "_description": "Termo para liquido de 500ml",
35         "_imageUrl": "https:",
36         "_unit": "pieza",
37         "_stock": 200,
38         "_pricePerUnit": 540.6,
39         "_category": "Hogar"
40       },
41 ⌄     {
42         "_uuid": "17db4fb7-4108-4800-8548-a3742997ab59",
43         "_title": "Huaraches",
44         "_description": "Huaraches de piel para vestir tall 23cm",
45         "_imageUrl": "https:",
46         "_unit": "par",
47         "_stock": 12,
48         "_pricePerUnit": 784.5,
49         "_category": "Calzado"
50       }
51     ]
52   }
```

```
### Get product by search parameter title
Send Request | Comment Code | Improve Code
GET http://localhost:3000/products?title=Tenis%20Nike HTTP/1.1
Response(21ms) ✕

1   HTTP/1.1 200 OK
2   X-Powered-By: Express
3   Content-Type: application/json; charset=utf-8
4   Content-Length: 217
5   ETag: W/"d9-kL1j87s047V8TQormsDZ/eYqfmM"
6   Date: Thu, 21 Mar 2024 18:58:57 GMT
7   Connection: close
8
9  ∨ [
10 ∨   {
11        "_uuid": "59ad9f41-f6fd-4445-a997-c57694b46e22",
12        "_title": "Tenis Nike",
13        "_description": "Tenis para correr en pista color rojo",
14        "_imageUrl": "https:",
15        "_unit": "par",
16        "_stock": 14,
17        "_pricePerUnit": 1334,
18        "_category": "Calzado"
19      }
20    ]
```

```
### Get product by search parameter category
Send Request | Comment Code | Improve Code
GET http://localhost:3000/products?category=Calzado HTTP/1.1
1   HTTP/1.1 200 OK
2   X-Powered-By: Express
3   Content-Type: application/json; charset=utf-8
4   Content-Length: 435
5   ETag: W/"1b3-5m4a/mPX1sl0ObWFuqW0Vt47mdI"
6   Date: Thu, 21 Mar 2024 19:00:32 GMT
7   Connection: close
8
9  ∨ [
10 ∨   {
11        "_uuid": "59ad9f41-f6fd-4445-a997-c57694b46e22",
12        "_title": "Tenis Nike",
13        "_description": "Tenis para correr en pista color rojo",
14        "_imageUrl": "https:",
15        "_unit": "par",
16        "_stock": 14,
17        "_pricePerUnit": 1334,
18        "_category": "Calzado"
19      },
20 ∨   {
21        "_uuid": "17db4fb7-4108-4800-8548-a3742997ab59",
22        "_title": "Huaraches",
23        "_description": "Huaraches de piel para vestir tall 23cm",
24        "_imageUrl": "https:",
25        "_unit": "par",
26        "_stock": 12,
27        "_pricePerUnit": 784.5,
28        "_category": "Calzado"
29      }
30    ]
```

```
### Get product by search parameter title and category
Send Request | Comment Code | Improve Code
GET http://localhost:3000/products?title=Huaraches&category=Calzado HTTP/1.1
 1  HTTP/1.1 200 OK
 2  X-Powered-By: Express
 3  Content-Type: application/json; charset=utf-8
 4  Content-Length: 219
 5  ETag: W/"db-8UmHoaJAuz2UtmiyU3jGbn5e4m4"
 6  Date: Thu, 21 Mar 2024 19:01:55 GMT
 7  Connection: close
 8
 9 ∨ [
10 ∨   {
11        "_uuid": "17db4fb7-4108-4800-8548-a3742997ab59",
12        "_title": "Huaraches",
13        "_description": "Huaraches de piel para vestir tall 23cm",
14        "_imageUrl": "https:",
15        "_unit": "par",
16        "_stock": 12,
17        "_pricePerUnit": 784.5,
18        "_category": "Calzado"
19      }
20    ]
```

POST /products/cart

```
### Post product cart that not exists in 'Data Base'
Send Request | Comment Code | Improve Code
POST http://localhost:3000/products/cart HTTP/1.1
Content-Type: application/json

{
"products":[
        {
            "title":"Audifonos",
            "description":"Audifonos on ear colo negro",
            "imageurl":"https:",
            "unit":"pieza",
            "stock":45,
            "price":1234,
            "category":"Electronica"
        },
        {
            "title":"Crema Dove",
            "description":"Crema corporal humectante",
            "imageUrl":"https:",
            "unit":"pieza",
            "stock":87,
            "pricePerUnit":83,
            "category":"Salud"
        }
    ]
}
```

```
1   HTTP/1.1 404 Not Found
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 27
5   ETag: W/"1b-qUg4uitAS1jiN8pVjwEg0vLGjcE"
6   Date: Thu, 21 Mar 2024 20:07:07 GMT
7   Connection: close
8
9   Product Audifonos not found
```

```
### Post product cart that exists in 'Data Base'
Send Request | Comment Code | Improve Code
POST http://localhost:3000/products/cart HTTP/1.1
Content-Type: application/json

{
"products":[
        {
            "title":"Tenis Nike",
            "description":"Tenis para correr en pista color rojo",
            "imageurl":"https:",
            "unit":"par",
            "stock":14,
            "price":1334,
            "category":"Calzado"
        },
        {
            "title":"SmartWatch",
            "description":"Reloj inteligente para runners",
            "imageUrl":"https:",
            "unit":"pieza",
            "stock":20,
            "pricePerUnit":29034,
            "category":"Electronica"
        }
    ]
}
```

```
HTTP/1.1 200 OK
X-Powered-By: Express
Content-Type: application/json; charset=utf-8
Content-Length: 368
ETag: W/"170-UTpl9iajctoUpAv6Z0A1e4l5vSA"
Date: Thu, 21 Mar 2024 20:30:14 GMT
Connection: close

"[{\"title\":\"Tenis Nike\",\"description\":\"Tenis para correr en pista color rojo
\",\"imageurl\":\"https:\",\"unit\":\"par\",\"stock\":14,\"price\":1334,\"category\":\"C
alzado\"},{\"title\":\"SmartWatch\",\"description\":\"Reloj inteligente para runners
\",\"imageUrl\":\"https:\",\"unit\":\"pieza\",\"stock\":20,\"pricePerUnit\":29034,\"cate
gory\":\"Electronica\"}]"
```

GET /products/:id

```
### Get product cart with existing id
Send Request | Comment Code | Improve Code
GET http://localhost:3000/products/:59ad9f41-f6fd-4445-a997-c57694b46e22 HTTP/1.1
HTTP/1.1 200 OK
X-Powered-By: Express
Content-Type: application/json; charset=utf-8
Content-Length: 215
ETag: W/"d7-xGPeMHZowb4uXZtc2RnG7RyfMEo"
Date: Thu, 21 Mar 2024 20:46:05 GMT
Connection: close

{
  "_uuid": "59ad9f41-f6fd-4445-a997-c57694b46e22",
  "_title": "Tenis Nike",
  "_description": "Tenis para correr en pista color rojo",
  "_imageUrl": "https:",
  "_unit": "par",
  "_stock": 14,
  "_pricePerUnit": 1334,
  "_category": "Calzado"
}
```

```
### Get product cart with and id that not exists
Send Request | Comment Code | Improve Code
GET http://localhost:3000/products/:fff HTTP/1.1
1   HTTP/1.1 404 Not Found
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 17
5   ETag: W/"11-mDvZIAY+AU+vAESXXtbmfRvaPSc"
6   Date: Thu, 21 Mar 2024 20:47:06 GMT
7   Connection: close
8
9   Product not found
```

Middleware de autenticar

```
### Admin add product to check Middleware de autenticación
Send Request | Comment Code | Improve Code
POST http://localhost:3000/admin/products HTTP/1.1
Content-Type: application/json
x-token: fakeuser

{
    "title":"Termo de Agua",
    "description":"Termo para liquido de 500ml",
    "imageurl":"https:",
    "unit":"pieza",
    "stock":200,
    "price":540.6,
    "category":"Hogar"
}
```

```
1   HTTP/1.1 403 Forbidden
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 66
5   ETag: W/"42-2hWBrM/ihzP02PJCsUFiHbc+sd8"
6   Date: Thu, 21 Mar 2024 21:23:22 GMT
7   Connection: close
8
9   Acesso no autorizado no se cuenta con privilegios de administrador
```

POST /admin/products

```
### Admin add product with an incomplete body
Send Request | Comment Code | Improve Code
POST http://localhost:3000/admin/products HTTP/1.1
Content-Type: application/json
x-token: admin

{
    "title":"Lentes de sol",
    "description":"Lentes de sol genericos con antirreflejante color negro",
    "imageurl":"https:",
    "unit":"pieza",
    "stock":209,
    "price":689
}
```

```
1   HTTP/1.1 400 Bad Request
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 30
5   ETag: W/"1e-tgptAE+gRCjd121yJq9DdgVscu0"
6   Date: Thu, 21 Mar 2024 22:41:26 GMT
7   Connection: close
8
9   Error, falta agergar: category
```

```
### Admin add product
Send Request | Comment Code | Improve Code
POST http://localhost:3000/admin/products HTTP/1.1
Content-Type: application/json
x-token: admin

{
    "title":"Lentes de sol",
    "description":"Lentes de sol genericos con antirreflejante color negro",
    "imageurl":"https:",
    "unit":"pieza",
    "stock":209,                              ● CMD+L for Code
    "price":689,
    "category":"Belleza"
}
```

```
1   HTTP/1.1 201 Created
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 43
5   ETag: W/"2b-ixDVKJcDxGwo0fITn1SqUmRK/j0"
6   Date: Thu, 21 Mar 2024 23:01:51 GMT
7   Connection: close
8
9   Producto Lentes de sol creado correctamente
```

```
set uuid(value){
    if(value === null)
    {
        // Change this to autogenerate
        // this._uuid = generateUUID();
        this._uuid = UUID.generateUUID();
    }
```

```
    }, {
        "_uuid": "ab5ba75b-7d85-42da-b416-d614e169321a",
        "_title": "Lentes de sol",
        "_description": "Lentes de sol genericos con antirreflejante color negro",
        "_imageUrl": "https:",
        "_unit": "pieza",
        "_stock": 209,
        "_pricePerUnit": 689,
        "_category": "Belleza"
    }]
}                              ● CMD+L for Code Chat
```

PUT /admin/products/:id


```
### Admin update product with token that not exists
Send Request | Comment Code | Improve Code
PUT http://localhost:3000/admin/products/:ab5ba75b-7d85-42da-b416-d614e169321a HTTP/1.1
Content-Type: application/json
x-token: fakeuser

{
    "title":"Lentes de sol",
    "description":"Lentes de sol genericos con antirreflejante color negro",
    "imageurl":"https:",
    "unit":"pieza",
    "stock":209,
    "price":999,
    "category":"Belleza"
}
1    HTTP/1.1 403 Forbidden
2    X-Powered-By: Express
3    Content-Type: text/html; charset=utf-8
4    Content-Length: 66
5    ETag: W/"42-2hWBrM/ihzP02PJCsUFiHbc+sd8"
6    Date: Thu, 21 Mar 2024 23:33:06 GMT
7    Connection: close
8
9    Acesso no autorizado no se cuenta con privilegios de administrador
```



```
### Admin update product with a non existing id
Send Request | Comment Code | Improve Code
PUT http://localhost:3000/admin/products/:ff HTTP/1.1
Content-Type: application/json
x-token: admin

{
    "title":"Lentes de sol",
    "description":"Lentes de sol genericos con antirreflejante color negro",
    "imageurl":"https:",
    "unit":"pieza",
    "stock":209,
    "price":689,
    "category":"Belleza"
}
1    HTTP/1.1 404 Not Found
2    X-Powered-By: Express
3    Content-Type: text/html; charset=utf-8
4    Content-Length: 29
5    ETag: W/"1d-xz/PCyT75zApF6SQ74lBe5fkzfQ"
6    Date: Thu, 21 Mar 2024 23:34:13 GMT
7    Connection: close
8
9    Error: Producto no encontrado
```

```
### Admin update price product with existing id
Send Request | Comment Code | Improve Code
PUT http://localhost:3000/admin/products/:ab5ba75b-7d85-42da-b416-d614e169321a HTTP/1.1
Content-Type: application/json
x-token: admin

{
    "title":"Lentes de sol",
    "description":"Lentes de sol genericos con antirreflejante color negro",
    "imageurl":"https:",
    "unit":"pieza",
    "stock":209,
    "price":999,
    "category":"Belleza"                                    ● CMD+L for Code Cha
}
```

```
1   HTTP/1.1 200 OK
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 48
5   ETag: W/"30-BhRivXC8zIRiWVR1djp840p1qcU"
6   Date: Thu, 21 Mar 2024 23:26:13 GMT
7   Connection: close
8
9   Producto Lentes de sol actualizado correctamente
```

```
}, {
    "_uuid": "ab5ba75b-7d85-42da-b416-d614e169321a",
    "_title": "Lentes de sol",
    "_description": "Lentes de sol genericos con antirreflejante color negro",
    "_imageUrl": "https:",
    "_unit": "pieza",
    "_stock": 209,
    "_pricePerUnit": 999,
    "_category": "Belleza"
}]
```

DELETE /admin/products:id


```
### Delete product with token that not exists
Send Request | Comment Code | Improve Code
DELETE http://localhost:3000/admin/products/:ab5ba75b-7d85-42da-b416-d614e169321a HTTP/1.1
Content-Type: application/json
x-token: fakeuser
1   HTTP/1.1 403 Forbidden
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 66
5   ETag: W/"42-2hWBrM/ihzP02PJCsUFiHbc+sd8"
6   Date: Thu, 21 Mar 2024 23:38:25 GMT
7   Connection: close
8
9   Acesso no autorizado no se cuenta con privilegios de administrador
```



```
### Admin delete product with an id that not exists
Send Request | Comment Code | Improve Code
DELETE http://localhost:3000/admin/products/:fff HTTP/1.1
Content-Type: application/json
x-token: admin
1   HTTP/1.1 404 Not Found
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 29
5   ETag: W/"1d-xz/PCyT75zApF6SQ74lBe5fkzfQ"
6   Date: Thu, 21 Mar 2024 23:40:14 GMT
7   Connection: close
8
9   Error: Producto no encontrado
```

```
### Admin delete product
Send Request | Comment Code | Improve Code
DELETE http://localhost:3000/admin/products/:ab5ba75b-7d85-42da-b416-d614e169321a HTTP/1.1
Content-Type: application/json
x-token: admin
```

```
1   HTTP/1.1 200 OK
2   X-Powered-By: Express
3   Content-Type: text/html; charset=utf-8
4   Content-Length: 46
5   ETag: W/"2e-qfAMecVGCie0HJEN8gWhBt2GybY"
6   Date: Thu, 21 Mar 2024 23:42:43 GMT
7   Connection: close
8
9   Producto Lentes de sol eliminado correctamente
```

```
        "_category": "Hogar"
    }, {
        "_uuid": "17db4fb7-4108-4800-8548-a3742997ab59",
        "_title": "Huaraches",
        "_description": "Huaraches de piel para vestir tall 23cm",
        "_imageUrl": "https:",
        "_unit": "par",
        "_stock": 12,
        "_pricePerUnit": 784.5,
        "_category": "Calzado"
    }]
}                                           ● CMD+L for Code Chat
```

GET /, /home, /shopping_cart
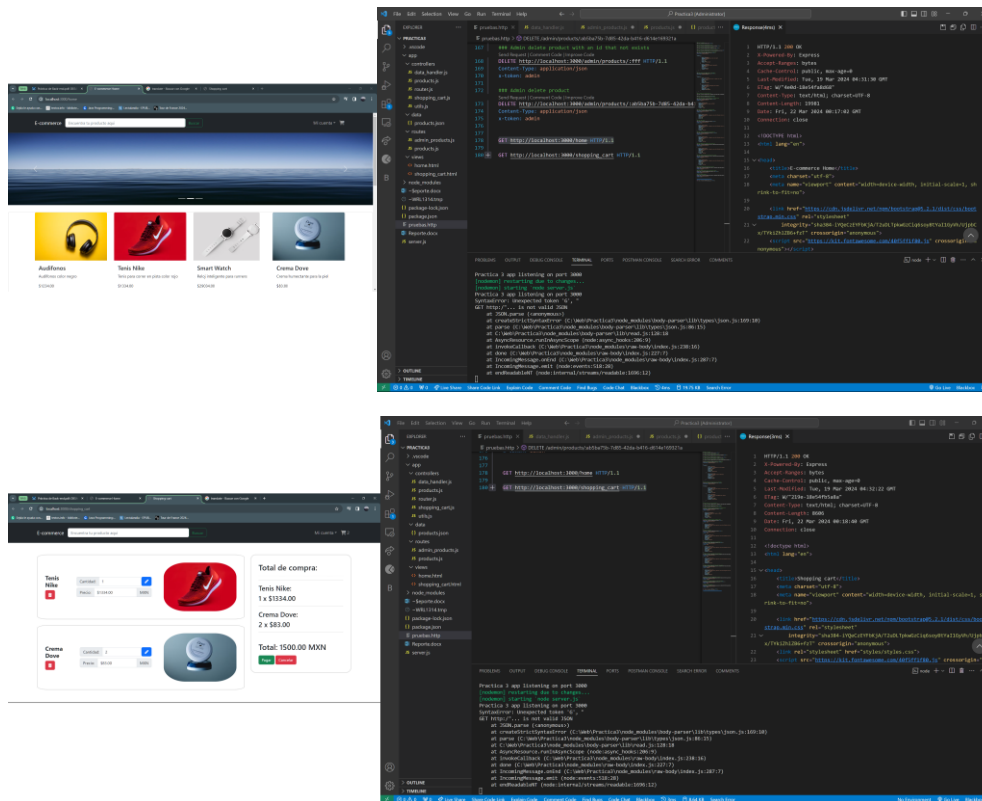
Conclusiones

Esta práctica a pesar de que era Back-end y yo crei que se me iba a ser más rápido o fácil por la lógica que se utiliza, me tomo bastante tiempo de lo pensado, por suerte la empecé el mismo día que la dejaron y tuve tiempo para trabajarla y resolver todos los problemas que se me iban cruzando. Una de las cosas que mas se me complico fue hacer el apartado de admin_products.js ya que hice muchos 'casos' uno para cada uno, de casos valido o no validos en los productos o consultas de usuario, me compliqué de más esta parte y me confundí un poco creando router.post/put/delate inecesarios. Pero pude resolverlo viendo los ejemplos de las sesiones anteriores y vi que solo utilizábamos 3 y con esos abarcaron todos los casos, entonces cree esos 3 y fui adaptando el código interno y agregando condiciones en cada uno de los router. Como en todo creo que mejore considerablemente mi conocimiento con las REST API por que me iban saliendo errores de funciones que no actualizaban ciertas cosas bien, o marcaban errores y cada ves los iba resolviendo más rápido sabiendo en que fallaba