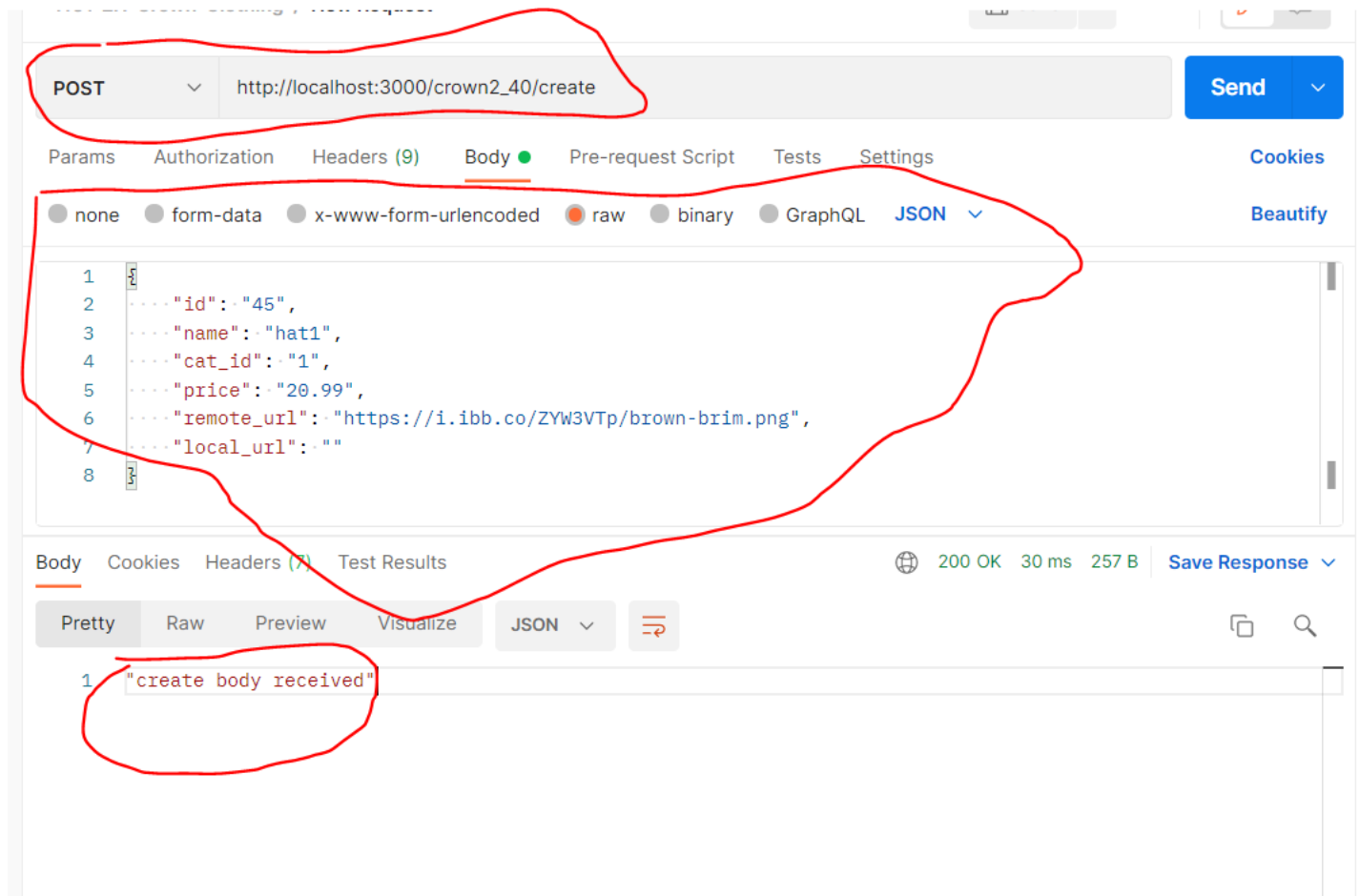
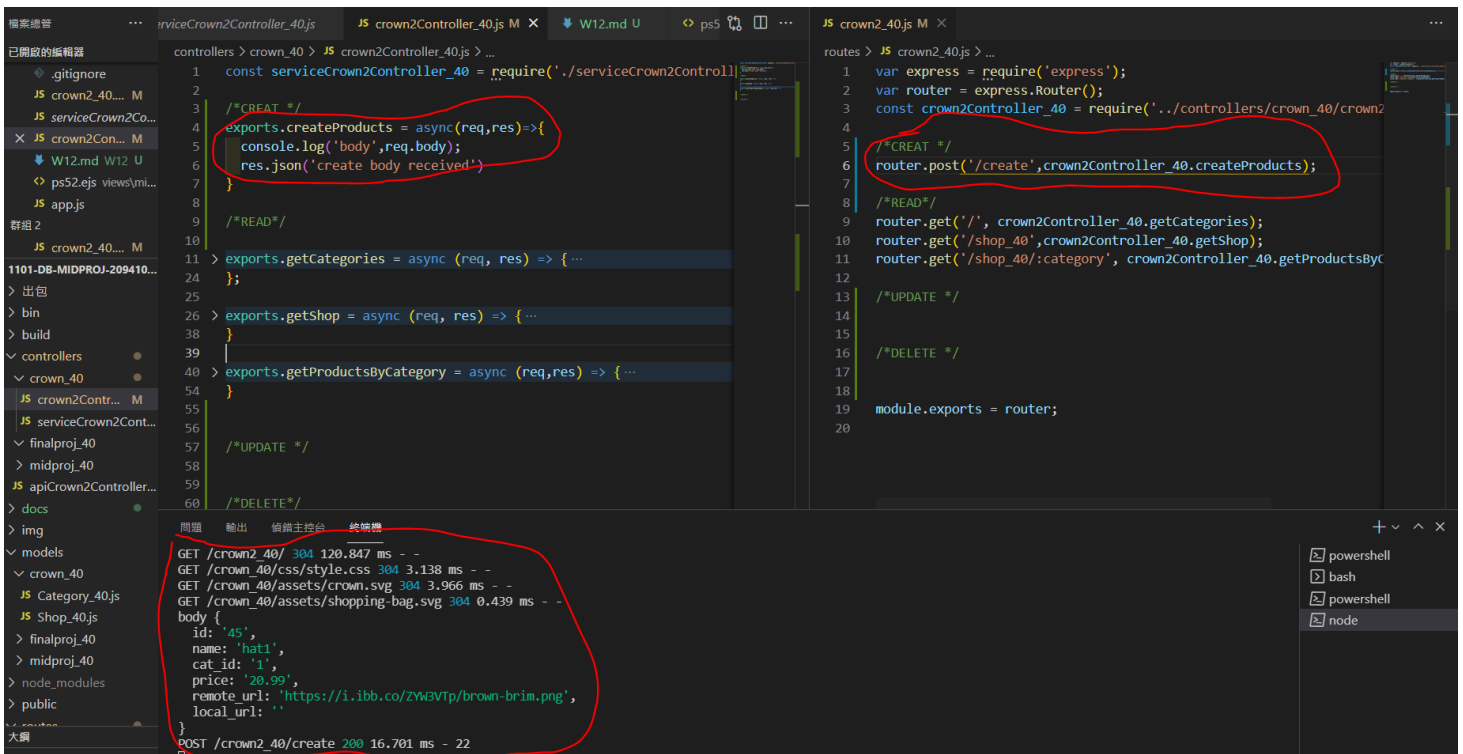


P1.Create json data of a product from Postman, and send it by POST request via route /crown2_40/create

Create a new POST REQUEST from Postman with a new json data of product

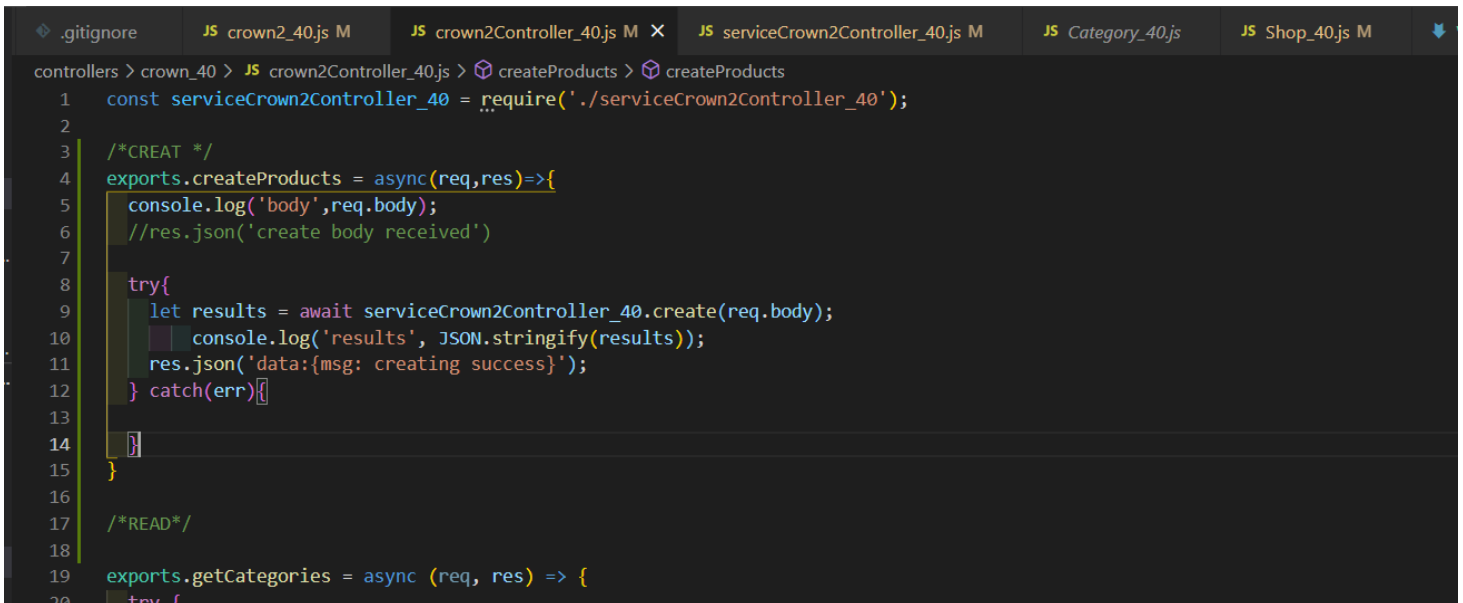


code for handling route /crown2_40/create with console output



P2: Create code for creating a product, and verify

=> crown2Controller code



=> serviceController code

```
.gitignore x JS crown2_40.js M JS crown2Controller_40.js M JS serviceCrown2Controller_40.js M x JS Category_40.js JS Shop_40.js M W12.md U ps5

controllers > crown_40 > JS serviceCrown2Controller_40.js > create > create
1 const Category_40 = require('../../models/crown_40/Category_40');
2 const Shop_40 = require('../../models/crown_40/Shop_40')
3
4 //CREATE
5 exports.create = async (body) => {
6   try{
7     return await Shop_40.create(body)
8   }catch(err){
9     console.log('create',err);
10  }
11 }
12
13 //READ
14
15 > exports.getCategories = async (req, res) => { ...
21 };
22
23 > exports.getShop = async(req,res)=> { ...
```

=> model Shop_xx code

```
.gitignore x JS crown2_40.js M JS crown2Controller_40.js M JS serviceCrown2Controller_40.js M JS Category_40.js JS Shop_40.js M x W12.md U ps5

models > crown_40 > JS Shop_40.js > Shop_40 > constructor
1 const db = require('../../utils/database');
2
3 const Shop_40 = class Shop_40 {
4   constructor(id, name, cat_id,price, remote_url, local_url, ) {
5     this.id = id;
6     this.name = name;
7     this.cat_id = cat_id;
8     this.price = price;
9     this.remote_url = remote_url;
10    this.local_url = local_url;
11  }
12
13 //CREATE
14 static async create(body) {
15   const{id, name, cat_id, price, remote_url, local_url}=body;
16   const query = {
17     text: `INSERT INTO shop_40 (id, name, cat_id, price, remote_url, local_url) VALUES ($1, $2, $3, $4, $5, $6)`,
18     values: [id, name, cat_id, price, remote_url, local_url]
19   }
20   return db.query(query);
21 }
22
23 //READ: get all categories
```

=> Postman request, json data and result

1101-2N-Crown-Clothing / New Request

POST http://localhost:3000/crown2_40/create

Params Authorization Headers (0) Body Pre-request Script Tests Settings Cookies Beautify

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

```
1 {
2   "id": "45",
3   "name": "hat1",
4   "cat_id": "1",
5   "price": "20.99",
6   "remote_url": "https://i.ibb.co/ZYW3VTp/brown-brim.png",
7   "local_url": ""
8 }
```

Body Cookies Headers (7) Test Results 200 OK 31 ms 265 B Save Response

Pretty Raw Preview Visualize JSON

```
1 "data:{msg: creating success}"
```

=> Verify by pgAdmin

Dashboard Properties SQL Statistics Dependencies Dependents public.shop_40/1101-db-midproj-209410140/postgres@PostgreSQL 13

1101-db-midproj-209410140/postgres@PostgreSQL 13

Query Editor Query History Scratch Pad

```
1 SELECT * FROM public.shop_40
2 ORDER BY id ASC
```

Data Output Explain Messages Notifications

| | id [PK] integer | name character varying (45) | cat_id integer | price real | remote_url character varying (255) | local_url character varying (255) |
|----|--------------------|--------------------------------|-------------------|---------------|---|--------------------------------------|
| 21 | 26 | Air Jordan Limited | 3 | 190 | https://i.libb.co/w4k6Ws9/nike-funky.png | /img/sneakers/nike-funky.png |
| 22 | 27 | Timberlands | 3 | 200 | https://i.libb.co/Mhh6wBg/timberlands.png | /img/sneakers/timberlands.png |
| 23 | 28 | Blue Tanktop | 4 | 25 | https://i.libb.co/7CQVJNm/blue-tank.png | /img/womens/blue-tank.png |
| 24 | 29 | Floral Blouse | 4 | 20 | https://i.libb.co/4W2DGKm/floral-blouse.png | /img/womens/floral-blouse.png |
| 25 | 30 | Floral Dress | 4 | 80 | https://i.libb.co/KV18Yer/floral-skirt.png | /img/womens/floral-skirt.png |
| 26 | 31 | Red Dots Dress | 4 | 80 | https://i.libb.co/N3BN1bh/red-polka-dot-dress.png | /img/womens/red-polka-dot-dress.png |
| 27 | 32 | Striped Sweater | 4 | 45 | https://i.libb.co/KmSkMBH/striped-sweater.png | /img/womens/striped-sweater.png |
| 28 | 33 | Yellow Track Suit | 4 | 135 | https://i.libb.co/v1cwNf/yellow-track-suit.png | /img/womens/yellow-track-suit.png |
| 29 | 34 | White Blouse | 4 | 20 | https://i.libb.co/qBcrsJg/white-vest.png | /img/womens/white-vest.png |
| 30 | 35 | Camo Down Vest | 5 | 325 | https://i.libb.co/xJS0T3Y/camo-vest.png | /img/mens/camo-vest.png |
| 31 | 36 | Floral T-shirt | 5 | 20 | https://i.libb.co/qMQ75QZ/floral-shirt.png | /img/mens/floral-shirt.png |
| 32 | 37 | Black & White Longsleeve | 5 | 25 | https://i.libb.co/55z32tw/long-sleeve.png | /img/mens/long-sleeve.png |
| 33 | 38 | Pink T-shirt | 5 | 25 | https://i.libb.co/Rvwn8L8/pink-shirt.png | /img/mens/pink-shirt.png |
| 34 | 39 | Jean Long Sleeve | 5 | 40 | https://i.libb.co/VpW4x5t/roll-up-jean-shirt.png | /img/mens/roll-up-jean-shirt.png |
| 35 | 40 | Burgundy T-shirt | 5 | 25 | https://i.libb.co/mh3VM1f/polka-dot-shirt.png | /img/mens/polka-dot-shirt.png |
| 36 | 45 | hat1 | 1 | 20.99 | https://i.libb.co/ZYW3VTp/brown-brim.png | |

P3: Code for updating a product, and verify

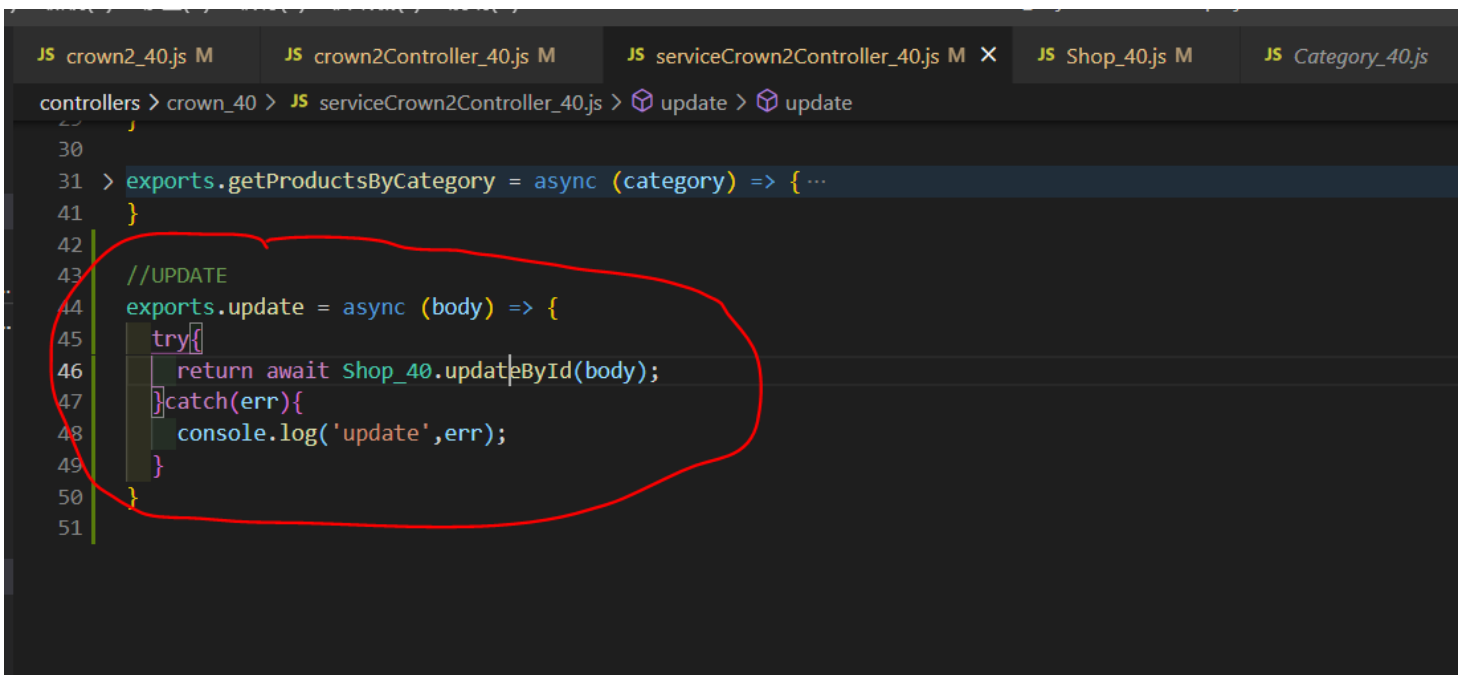
=> crown2Controller code

```
JS crown2_40.js M JS crown2Controller_40.js M JS serviceCrown2Controller_40.js M JS Shop_40.js M X JS Category_40.js
models > crown_40 > JS Shop_40.js > Shop_40 > updateById

45
46
47 //UPDATE
48
49 static async updateById(body) {
50   const{id, name, cat_id, price, remote_url, local_url} = body;
51   const query = {
52     text: UPDATE shop_40 SET name = $1, cat_id = $2, price = $3, remote_url = $4, local_url = $5 WHERE id = $6 `,
53     values: [name, cat_id, price, remote_url, local_url, id]
54   }
55   return db.query(query);
56 }
57
58 //DELETE
59 };
60
61 // const test = async () => {
62 //   let results = await Category_xx.fetchAll();
63 //   console.log('results', JSON.stringify(results.rows));
64 // }
65

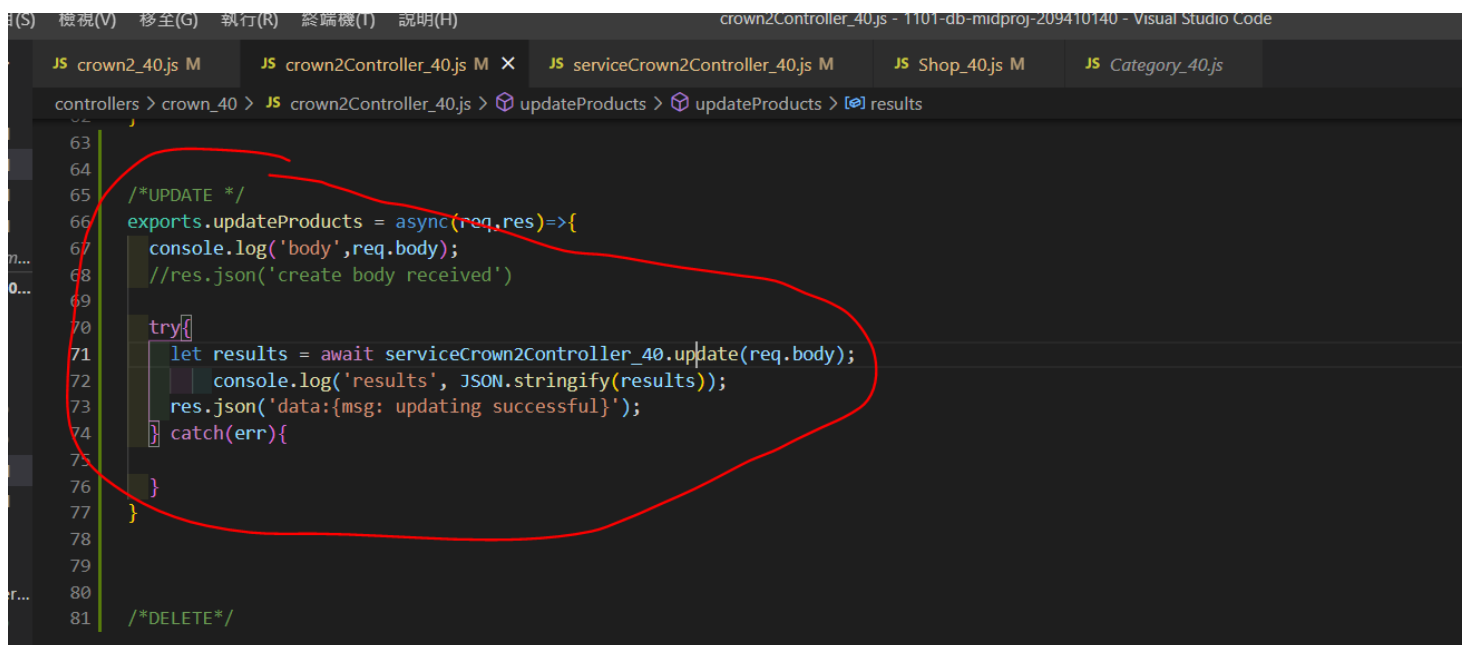
問題 輸出 偵錯主控台 終端機
id: '45',
name: 'hatname1',
cat_id: '1',
price: '29.99',
remote_url: 'https://i.ibb.co/ZYw3Vtp/brown-brim.png',
local_url: ''
}
results {"command":"UPDATE","rowCount":1,"oid":null,"rows":[],"fields":[],"types":{"_types":{"arrayParser":{},"builtins":{"BOOL":16,"BYTEA":17,"CHAR":18,"INT8":20,"INT2":21,"INT4":23,"REGPROC":24,"TEXT":25,"OID":26,"TID":27,"XID":28,"CID":29,"JSON":114,"XML":142,"PG_NODE_TREE":194,"SMGR":210,"PATH":602,"POLYGON":604,"CIDR":650,"FLOAT4":700,"FLOAT8":701,"ABSTIME":702,"RELTIME":703,"TINTERVAL":704,"CIRCLE":718,"MACADDR8":774,"MONEY":790,"MACADDR":829,"INET":869,"ACLITEM":1033,"BPCHAR":1042,"VARCHAR":1043,"DATE":1082,"TIME":1083,"TIMESTAMP":1114,"TIMESTAMP_TZ":1184,"INTERVAL":1186,"TIMETZ":1266,"BIT":1560,"VARBIT":1562,"NUMERIC":1700,"REFCURSOR":1790,"REGPROCEDURE":2202,"REGOPER":2203,"REGOPERATOR":2204,"REGCLASS":2205,"REGTYPE":2206,"UUID":2950,"TXID_SNAPSHOT":2970,"PG_LSN":3220,"PG_NDISTINCT":3361,"PG_DEPENDENCIES":3402,"TSVECTOR":3614,"TSQUERY":3615,"GTSVECTOR":3642,"REGCONFIG":3734,"REGDICTIONARY":3769,"JSONB":3802,"REGNAMESPACE":4089,"REGROLE":4096},"text":{},"binary":{},"RowCtor":null,"rowFromArray":false}
POST /crown2_40/update 200 255.093 ms - 33
```

=> serviceController code



```
JS crown2_40.js M JS crown2Controller_40.js M JS serviceCrown2Controller_40.js M X JS Shop_40.js M JS Category_40.js
controllers > crown_40 > JS serviceCrown2Controller_40.js > update > update
30
31 > exports.getProductsByCategory = async (category) => { ...
41 }
42
43 //UPDATE
44 exports.update = async (body) => {
45   try{
46     return await Shop_40.updateById(body);
47   }catch(err){
48     console.log('update',err);
49   }
50 }
51
```

=> model Shop_xx code



```
JS crown2_40.js M JS crown2Controller_40.js M X JS serviceCrown2Controller_40.js M JS Shop_40.js M JS Category_40.js
controllers > crown_40 > JS crown2Controller_40.js > updateProducts > updateProducts > results
63
64
65 /*UPDATE */
66 exports.updateProducts = async(req,res)=>{
67   console.log('body',req.body);
68   //res.json('create body received')
69
70   try{
71     let results = await serviceCrown2Controller_40.update(req.body);
72     console.log('results', JSON.stringify(results));
73     res.json('data:{msg: updating successful}');
74   } catch(err){
75
76   }
77 }
78
79
80
81 /*DELETE*/
```

=> Postman request, json data and result

Import Overview 1101-2N-Cr... POST Update a ... POST New Req... + ... No Environment

1101-2N-Crown-Clothing / Update a new product Save

POST http://localhost:3000/crown2_40/update Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Beautify

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

```
1 {
2   "id": "45",
3   "name": "hatname1",
4   "cat_id": "1",
5   "price": "29.99",
6   "remote_url": "https://i.ibb.co/ZYW3VTp/brown-brim.png",
7   "local_url": ""
8 }
```

Body Cookies Headers (7) Test Results 200 OK 268 ms 268 B Save Response

Pretty Raw Preview Visualize JSON

```
1 "data:{msg: updating successful}"
```

=> Verify by pgAdmin

Publications Schemas (1) public

- Collations
- Domains
- FTS Configurations
- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Procedures
- Sequences
- Tables (2)
- category_40
- midproj_40
- shop_40
 - Columns (6)
 - id
 - name
 - cat_id
 - price
 - remote_url
 - local_url
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers

1101-db-midproj-209410140/postgres@PostgreSQL 13

Query Editor Query History Scratch Pad

```
1 SELECT * FROM public.shop_40
2 ORDER BY id ASC
```

Data Output Explain Messages Notifications

| | id | name | cat_id | price | remote_url | local_url |
|----|--------------|--------------------------|---------|-------|--|-------------------------------------|
| | [PK] integer | character varying (45) | integer | real | character varying (255) | character varying (255) |
| 22 | 27 | Timberlands | 3 | 200 | https://i.ibb.co/Mhh6wBg/timberlands.png | /img/sneakers/timberlands.png |
| 23 | 28 | Blue Tanktop | 4 | 25 | https://i.ibb.co/7CQVJNm/blue-tank.png | /img/womens/blue-tank.png |
| 24 | 29 | Floral Blouse | 4 | 20 | https://i.ibb.co/4W2DGKm/floral-blouse.png | /img/womens/floral-blouse.png |
| 25 | 30 | Floral Dress | 4 | 80 | https://i.ibb.co/KV18Ysr/floral-skirt.png | /img/womens/floral-skirt.png |
| 26 | 31 | Red Dots Dress | 4 | 80 | https://i.ibb.co/N3BN1bh/red-polka-dot-dress.png | /img/womens/red-polka-dot-dress.png |
| 27 | 32 | Striped Sweater | 4 | 45 | https://i.ibb.co/KmSkMbH/striped-sweater.png | /img/womens/striped-sweater.png |
| 28 | 33 | Yellow Track Suit | 4 | 135 | https://i.ibb.co/v1cvwNf/yellow-track-suit.png | /img/womens/yellow-track-suit.png |
| 29 | 34 | White Blouse | 4 | 20 | https://i.ibb.co/qBcRsJg/white-vest.png | /img/womens/white-vest.png |
| 30 | 35 | Camo Down Vest | 5 | 325 | https://i.ibb.co/xJS0T3Y/camo-vest.png | /img/mens/camo-vest.png |
| 31 | 36 | Floral T-shirt | 5 | 20 | https://i.ibb.co/qMQ75QZ/floral-shirt.png | /img/mens/floral-shirt.png |
| 32 | 37 | Black & White Longsleeve | 5 | 25 | https://i.ibb.co/55z32tw/long-sleeve.png | /img/mens/long-sleeve.png |
| 33 | 38 | Pink T-shirt | 5 | 25 | https://i.ibb.co/RvwnBL8/pink-shirt.png | /img/mens/pink-shirt.png |
| 34 | 39 | Jean Long Sleeve | 5 | 40 | https://i.ibb.co/VpW4x5t/roll-up-jean-shirt.png | /img/mens/roll-up-jean-shirt.png |
| 35 | 40 | Burgundy T-shirt | 5 | 25 | https://i.ibb.co/mn3vM1f/polka-dot-shirt.png | /img/mens/polka-dot-shirt.png |
| 36 | 45 | hatname1 | 1 | 29.99 | https://i.ibb.co/ZYW3VTp/brown-brim.png | |