

(10%) Web Programming 2N 期末上機考 1 - 開放網路

2023-06-07, at E201

Note:

1. 請不要發揮同學愛，作弊雙方除了本次考試 0 分外，平常分數另扣 20 分。
2. iClass 上請繳交 w17_xx.md, w17_xx.pdf, 還有 1112-client-supa-1234567.zip (node_module 請移除，如有需要，移除 /public/img 下所有圖片)
3. 老師將題目提供在 w17_xx.md 檔案上，要實作的部分放在 w17_xx.pdf 上，請依照老師實作的圖片在你自己的 Github repo, Supabase, Vercel 上實作
4. 每一張圖片要有機房背景，要有你的學號，圖片標註要跟老師所標註的類似。違者會依情節扣分。
5. 請自評分數，將每一題的 ? 填入分數，沒有填者，不會批改，以 0 分計算。

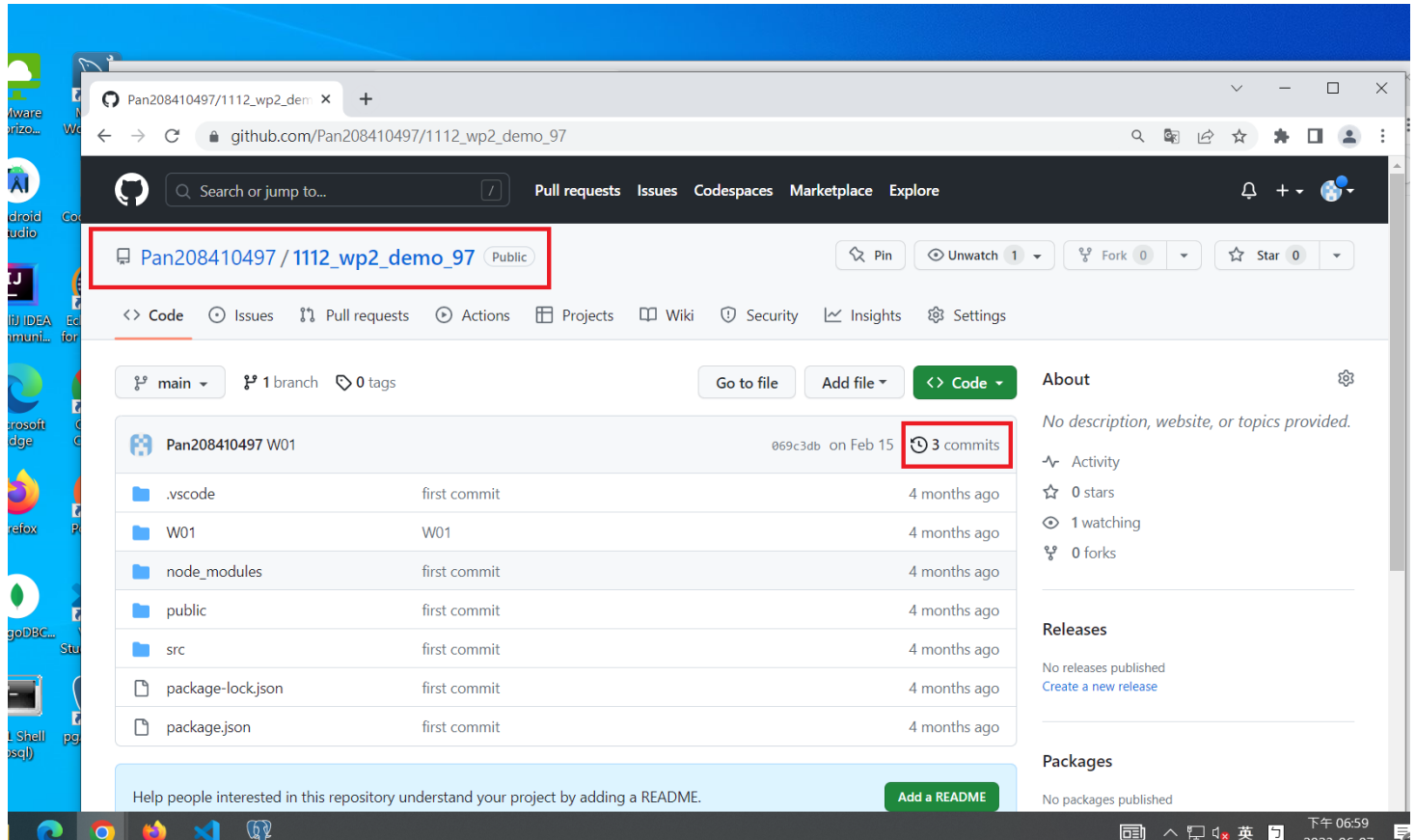
Your (Name, ID): (潘成典, 208410497)

- P1-1 (6%): 6 分
- P1-2 (6%): 6 分
- P1-3 (6%): 6 分
- P1-4 (6%): 0 分
- P1-5 (6%): 6 分
- P2-1 (10%): 10 分
- P2-2 (10%): 10 分
- P2-3 (10%): 10 分
- P2-4 (5%): 5 分
- P2-5 (5%): 5 分
- P3-1 (10%): 0 分
- P3-2 (10%): 0 分
- P3-3 (10%): 0 分
- P3-4 (5%): 5 分
- 總分: 69 分

(30%) P1: Show Info of Your Github Repo, Client Supa Github, Vercel as follows

(6%) P1-1: Show Your Github Repo

My Github Repo URL



(6%) P1-2: Show Your Github commits for week 15 and 16

Commits · Pan208410497/1112_wp2_demo_97

github.com/Pan208410497/1112_wp2_demo_97/commits/main

Search or jump to... Pull requests Issues Codespaces Marketplace Explore

Pan208410497 / 1112_wp2_demo_97 Public Pin Unwatch 1

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Commits

main

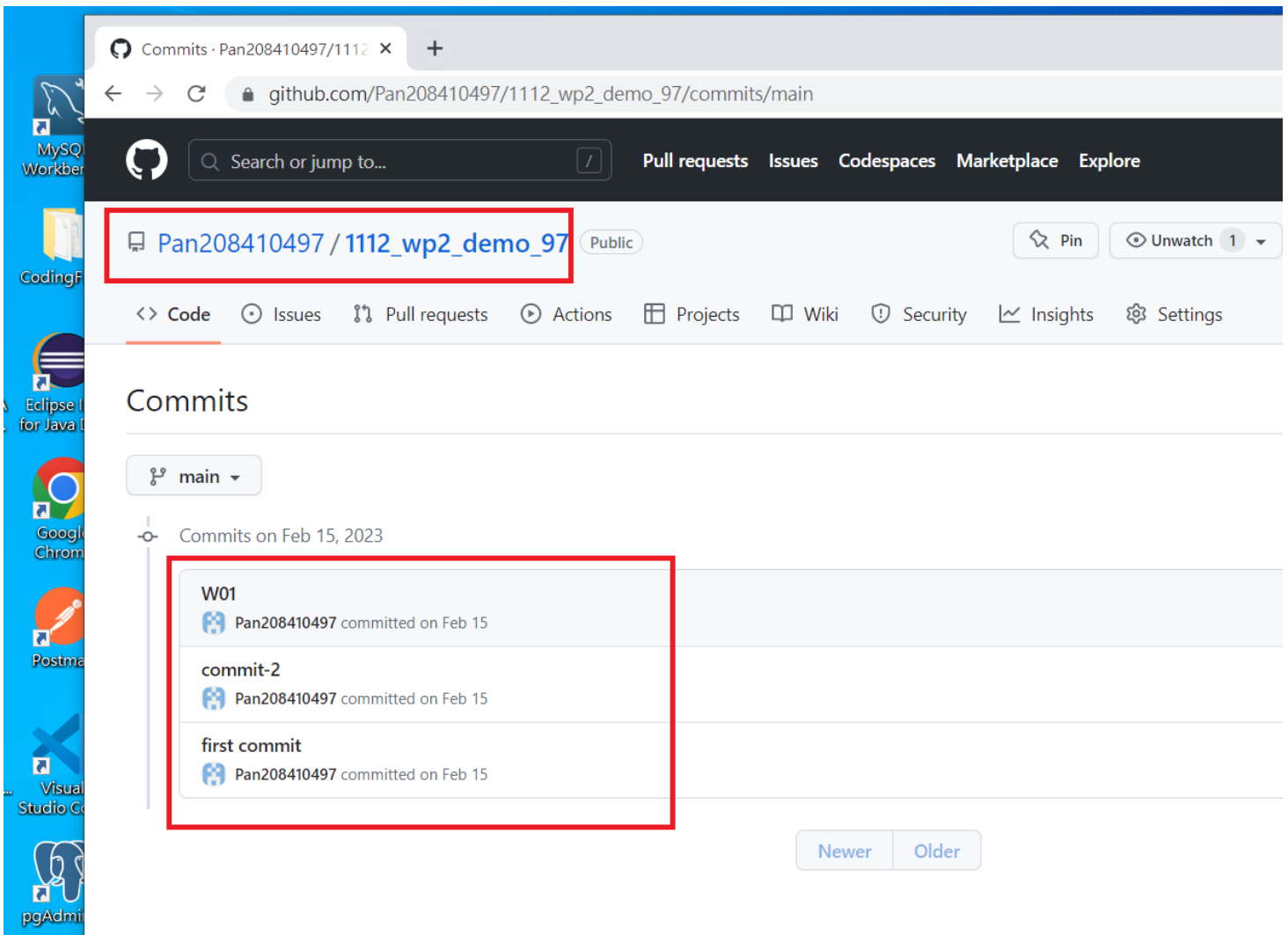
Commits on Feb 15, 2023

- W01
Pan208410497 committed on Feb 15
- commit-2
Pan208410497 committed on Feb 15
- first commit
Pan208410497 committed on Feb 15

Newer Older

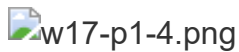
(6%) P1-3: Show Your Github SupaDemo URL

My Github SupaDemo URL



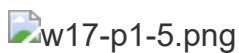
(6%) P1-4: Show Your Vercel page for SupaDemo, with route /supa_menu_xx

[My Vercel SupaDemo URL](#)

w17-p1-4.png

(6%) P1-5: Git log for P1

1287d53c Pan208410497 Wed Jun 7 20:25:22 2023 +0800 P1: Show Info of Your Github Repo, Client Supa Gi

w17-p1-5.png

(35%) P2: Supabase & Postman API testing

(10%) P2-1: show old anon key, and new anon key

old anon key

The screenshot shows the JWT.io website with a JWT token being verified. The token is `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6InJleXhncGZvcnR0dHVnc21hbXp0Iiwicm9sZSI6ImFub24iLCJpYXQiOiE2ODYxMzg4NjUsImV4cCI6MjAwMTcxNDg2NX0.FZDaPqk3HpYZmSmBWswpa9a3iEnlI8at7kn9i2Nm8ZI`. The website displays the token's structure, including the header, payload, and signature. The payload is `{ "iss": "supabase", "ref": "reyxgpfortttugsmamzt", "role": "anon", "iat": 1686138865, "exp": 2001714865 }`. The signature is `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6InJleXhncGZvcnR0dHVnc21hbXp0Iiwicm9sZSI6ImFub24iLCJpYXQiOiE2ODYxMzg4NjUsImV4cCI6MjAwMTcxNDg2NX0.FZDaPqk3HpYZmSmBWswpa9a3iEnlI8at7kn9i2Nm8ZI`. The website also shows a "Signature Verified" status and a "SHARE JWT" button.

new anon key by generating a new JWT secret

The screenshot shows the JWT.io website interface. The browser's address bar displays 'jwt.io'. The website has a dark header with the JWT logo and navigation links: 'Debugger', 'Libraries', 'Introduction', and 'Ask'. A pink banner at the top reads 'Learn what's new with Auth0 at Devday23 on May 16 Register now →'. The main content area is divided into two panels. The left panel contains a large text box with a generated JWT token: `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6InJleXhncGZvenR0dHVnc21hbXp0Iiwicm9sZSI6ImFub24iLCJpYXQiOiJlZ20DYXMzZG4NjUsImV4cCI6ImFwMTcxNDg2NX0.04FPSQTaFXld3q_uzLTGFZYTJgkQRjzQVQKtrymAUSU`. The right panel shows the token's structure: 'Type of token' is 'JWT', 'HEADER: ALGORITHM & TOKEN TYPE' is '{ "alg": "HS256", "typ": "JWT" }', and 'PAYLOAD: DATA' is '{ "iss": "supabase", "ref": "reyxgpfortttugsmamzt", "role": "anon", "iat": 1686138865, "exp": 2001714865 }'. Below the payload, the 'VERIFY SIGNATURE' section shows the HMACSHA256 algorithm and the secret key 'K4GbCIes38SLIVoFxJdBv:'. A blue button labeled 'SHARE JWT' is at the bottom right. A red box highlights the 'Signature Verified' status at the bottom left.

Learn what's new with Auth0 at Devday23 on May 16 Register now →

JWT

Debugger Libraries Introduction Ask

Crafted by auth0 by Okta

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6InJleXhncGZvenR0dHVnc21hbXp0Iiwicm9sZSI6ImFub24iLCJpYXQiOiJlZ20DYXMzZG4NjUsImV4cCI6ImFwMTcxNDg2NX0.04FPSQTaFXld3q_uzLTGFZYTJgkQRjzQVQKtrymAUSU

Type of token

HEADER: ALGORITHM & TOKEN TYPE

PAYLOAD: DATA

VERIFY SIGNATURE

HMACSHA256(

base64UrlEncode(header) + "." +

base64UrlEncode(payload),

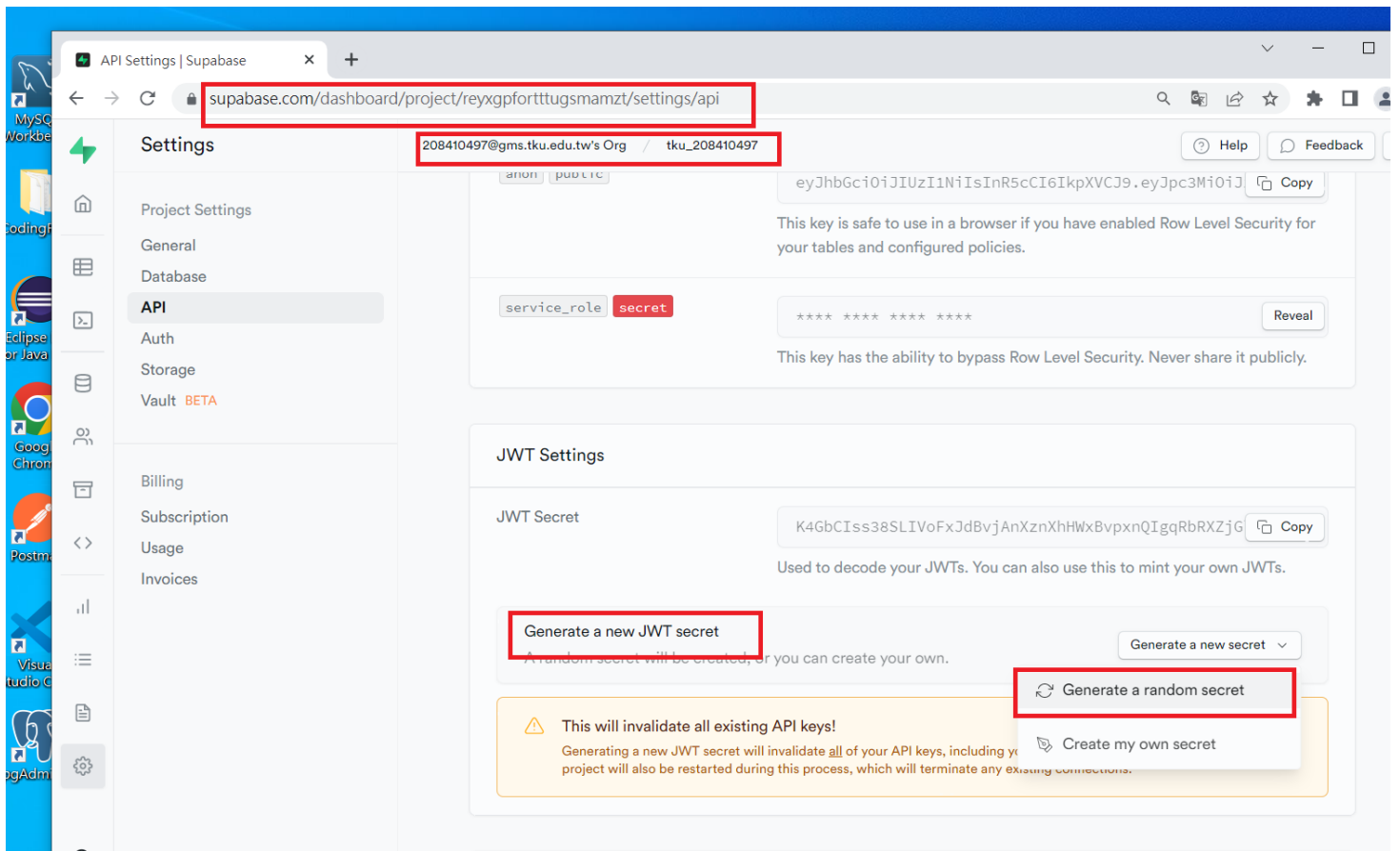
K4GbCIes38SLIVoFxJdBv:

) ☐ secret base64 encoded

Signature Verified

SHARE JWT

下午 07:5 2023-06-



(10%) P2-2: Use Postman to get all menu_xx products

Postman, old anon key, fail to get all menu_xx products

The screenshot shows the Postman interface with a GET request to `https://reyxgpfortttugsmamzt.supabase.co/rest/v1/cart_97?select=*`. The request is configured with the following headers:

Key	Value	Description
<input checked="" type="checkbox"/> Postman-Token	<calculated when request is sent>	
<input checked="" type="checkbox"/> Host	<calculated when request is sent>	
<input checked="" type="checkbox"/> User-Agent	PostmanRuntime/7.30.1	
<input checked="" type="checkbox"/> Accept	*/*	
<input checked="" type="checkbox"/> Accept-Encoding	gzip, deflate, br	
<input checked="" type="checkbox"/> Connection	keep-alive	
<input checked="" type="checkbox"/> apikey	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...	

The response is a 401 Unauthorized status with a JSON error message:

```
1 {
2   "message": "Invalid API key",
3   "hint": "Double check your Supabase 'anon' or 'service_role' API key."
4 }
```


Postman, new anon key, successfully get all menu_xx products

The screenshot shows the Postman interface with a GET request to `https://reyxgpfortttugsmamzt.supabase.co/rest/v1/cart_97?select=*`. The request is successful, returning a 200 OK status. The response body is a JSON array containing one product object.

Request Details:

- Method: GET
- URL: `https://reyxgpfortttugsmamzt.supabase.co/rest/v1/cart_97?select=*`
- Headers (8):
 - Postman-Token: <calculated when request is sent>
 - Host: <calculated when request is sent>
 - User-Agent: PostmanRuntime/7.30.1
 - Accept: */*
 - Accept-Encoding: gzip, deflate, br
 - Connection: keep-alive
 - apikey: `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...`

Response Details:

- Status: 200 OK
- Time: 641 ms
- Size: 1.91 KB
- Body (JSON):

```
[{"id": 8, "title": "Samsung Galaxy Flip 4", "price": 999.99, "img": "https://reyxgpfortttugsmamzt.supabase.co/storage/v1/object/public/demo-97/cart-97/samsungs7.png", "amount": 1}]
```

(10%) P2-3: Use pgAdmin to connect to Supabase, and restore category2_xx, shop2_xx table (no RLS)

show category2_xx, shop2_xx in pgAdmin

The screenshot shows the pgAdmin 4 web interface. The left sidebar displays the database structure, with 'category2_97' and 'shop2_97' tables highlighted under the 'public' schema. The main pane shows a query result for 'category2_97'.

Query: `select * from category2_97`

id	[PK] integer	name	character varying	size	character varying	remote_url	character varying	local_url	character varying
1	1	hats	[null]			https://i.ibb.co/cvpntL1/hats.png	/img/homepage/		
2	2	jackets	[null]			https://i.ibb.co/px2tCc3/jackets.png	/img/homepage/		
3	3	sneakers	[null]			https://i.ibb.co/0jqHnpn/sneakers.png	/img/homepage/		
4	4	womens	large			https://i.ibb.co/GCCdy8t/womens.png	/img/homepage/		
5	5	mens	large			https://i.ibb.co/R70vBrQ/men.png	/img/homepage/		

Total rows: 5 of 5 Query complete 00:00:00.141 Ln 1, Col 27

In Postman, create a new request, and get five categories successfully

The screenshot shows the Postman interface with a new GET request configured. The URL is `https://reyxgpfortttugsmamzt.supabase.co/rest/v1/category2_97?select=*`. The Headers tab is active, showing an `apikey` header with the value `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...`. The Body tab shows a JSON response with five categories.

Request URL: `https://reyxgpfortttugsmamzt.supabase.co/rest/v1/category2_97?select=*`

Method: GET

Headers (8):

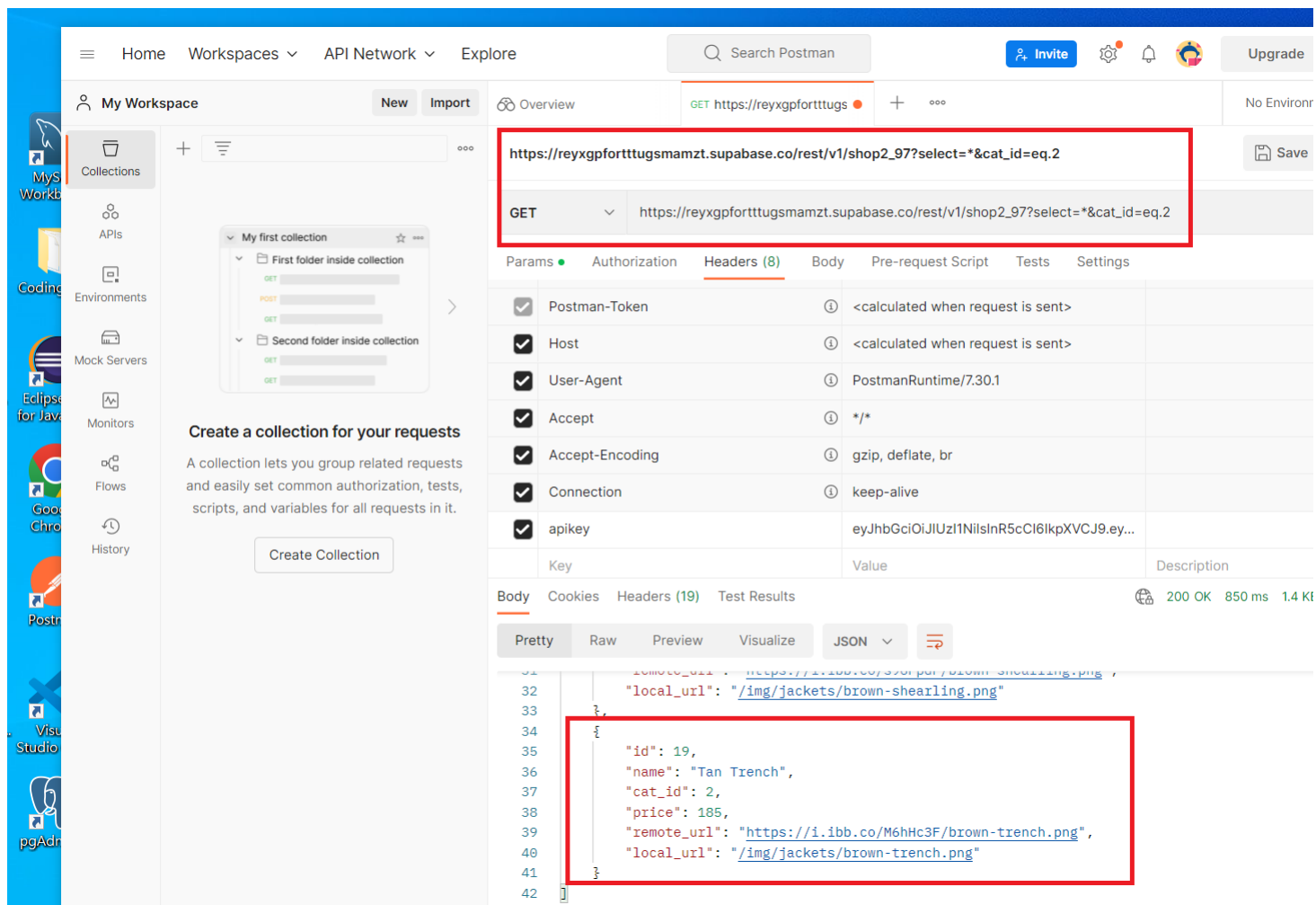
Key	Value	Description
Postman-Token	<calculated when request is sent>	
Host	<calculated when request is sent>	
User-Agent	PostmanRuntime/7.30.1	
Accept	*/*	
Accept-Encoding	gzip, deflate, br	
Connection	keep-alive	
apikey	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...	

Body (JSON):

```
31  {
32    "local_url": "/img/homepage/womens.png",
33    "link_url": "/crown2_xx/shop_xx/womens"
34  },
35  {
36    "id": 5,
37    "name": "mens",
38    "size": "large",
39    "remote_url": "https://i.ibb.co/R70vBrQ/men.png",
40    "local_url": "/img/homepage/mens.png",
41    "link_url": "/crown2_xx/shop_xx/mens"
42  }
43 }
```

(5%) P2-4: In Postman, get shop2_xx table (no RLS) with cat_id=x (last digit of your ID % 5)

show all shop2_xx products with cat_id = 4 (in my case)




(5%) P2-5: Git log for P2

remember to git log for P2

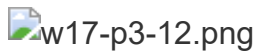
106d289a Pan208410497 Wed Jun 7 20:26:28 2023 +0800 P2: Supabase & Postman API testing

(35%) P3: React Using Supabase

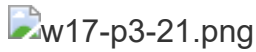
(10%) P3-1: Show Crown2 homepage with route `/static_crown2_xx`, by converting `index.html` directly to `CrownStaticPage_xx.js`

 w17-p3-11.png

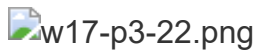
Wrapper code



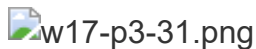
(10%) P3-2: Show Crown2 homepage with route /supa_crown2_xx, by fetching category data from Supabase and put them into Crown2SupaPage_xx.js



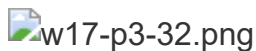
code for fetching category data



(10%) P3-3: Show shop2 products with route /supa_shop2_xx, by fetching shop2 products from Supabase and put them into Shop2SupaPage_xx.js



code for fetching category data



(5%) P3-4: All logs for P1, P2, P3

ca4571ce Pan208410497 Wed Jun 7 20:26:53 2023 +0800 P3: React Using Supabase

```
MINGW64:/d/208410497/crown_theme/123
create mode 100644 w17_xx(1).pdf

User@E201-42 MINGW64 /d/208410497/crown_theme/123 (master)
$ git commit
On branch master
nothing to commit, working tree clean

User@E201-42 MINGW64 /d/208410497/crown_theme/123 (master)
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-6-6"
ca4571ce      Pan208410497      Wed Jun 7 20:26:53 2023 +0800    P3: React Using Supabase
106d289a      Pan208410497      Wed Jun 7 20:26:28 2023 +0800    P2: Supabase & Postman API testing
1287d53c      Pan208410497      Wed Jun 7 20:25:22 2023 +0800    P1: Show Info of Your Github Repo,

User@E201-42 MINGW64 /d/208410497/crown_theme/123 (master)
$ push
bash: push: command not found

User@E201-42 MINGW64 /d/208410497/crown_theme/123 (master)
$ git push
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin master
```