

(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

The screenshot shows a GitHub repository page for the user Pan208410497, specifically the repository named 1112_wp2_demo_97. The repository is public and has 3 commits. The file list includes .vscode, W01, node_modules, public, src, package-lock.json, and package.json. The right sidebar shows activity, releases, and packages.

Repository URL: [Pan208410497 / 1112_wp2_demo_97](https://github.com/Pan208410497/1112_wp2_demo_97) (Public)

Repository details: 069c3db on Feb 15, 3 commits

File	Commit	Time
.vscode	first commit	4 months ago
W01	W01	4 months ago
node_modules	first commit	4 months ago
public	first commit	4 months ago
src	first commit	4 months ago
package-lock.json	first commit	4 months ago
package.json	first commit	4 months ago

Help people interested in this repository understand your project by adding a README. [Add a README](#)

Activity: 0 stars, 1 watching, 0 forks

Releases: No releases published. [Create a new release](#)

Packages: No packages published

(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

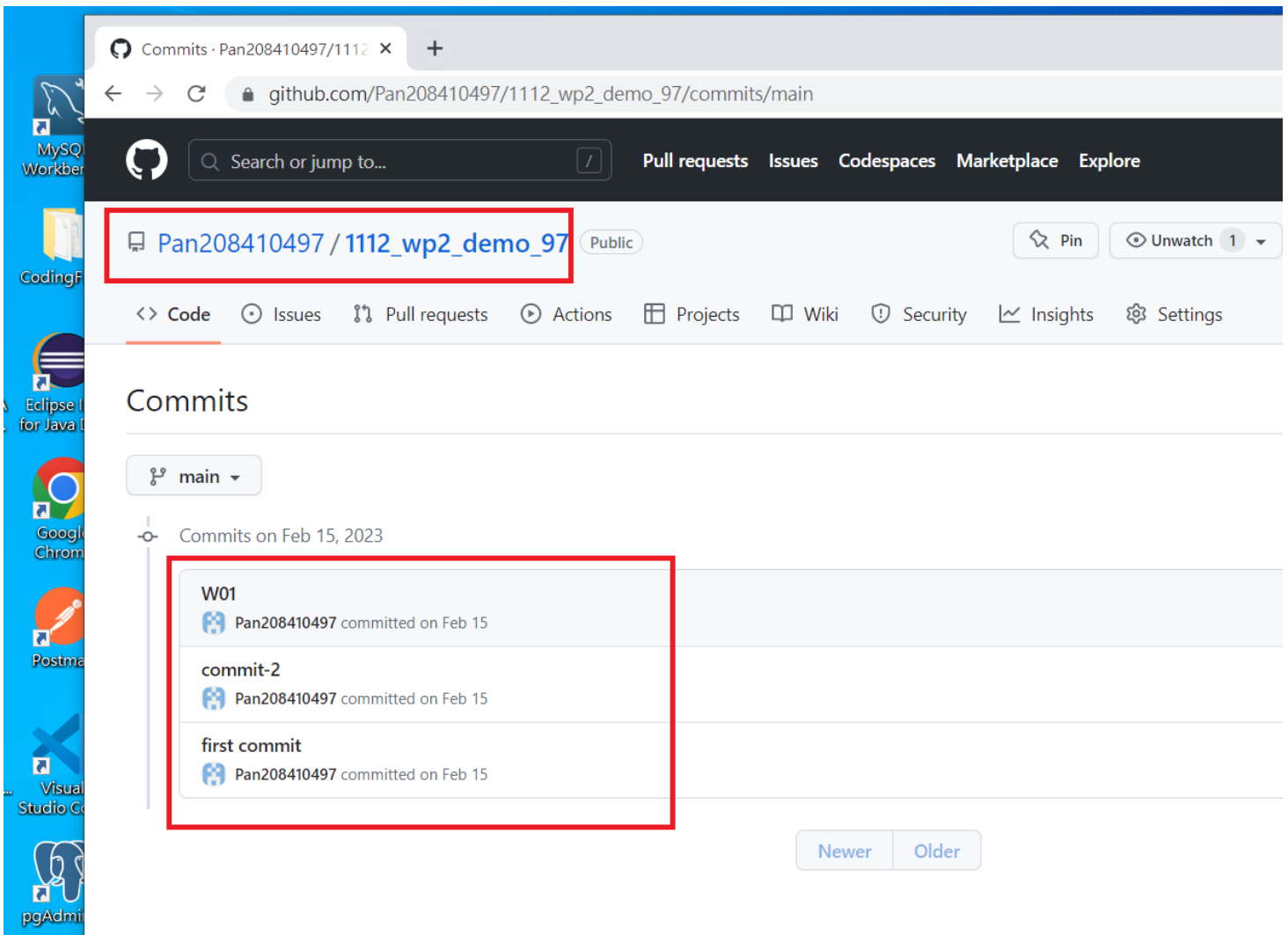
Commits on Feb 15, 2023

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

Newer Older

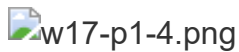
(6%) P1-3: Show Your Github SupaDemo URL

My Github SupaDemo URL



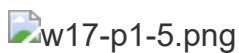
(6%) P1-4: Show Your Vercel page for SupaDemo, with route /supa_menu_xx

[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.

JWT.io

Learn what's new with Auth0 at Devday23 on May 16 [Register now](#)

JWT

Debugger Libraries Introduction Ask

Crafted by [auth0](#) by Okta

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6InJleXhncGZvcnR0dHVnc21hbXp0Iiwicm9sZSI6ImFub24iLCJpYXQiOiE2ODYxMzg4NjUsImV4cCI6MjAwMTcxNDg2NX0.FZDaPqk3HpYZmSmBWswpa9a3iEnlI8at7kn9i2Nm8ZI

HEADER: ALGORITHM & TOKEN TYPE

```
{
  "alg": "HS256",
  "typ": "JWT"
}
```

PAYLOAD: DATA

```
{
  "iss": "supabase",
  "ref": "reyxgpfortttugsmamzt",
  "role": "anon",
  "iat": 1686138865,
  "exp": 2001714865
}
```

VERIFY SIGNATURE

```
HMACSHA256(
  base64UrlEncode(header) + "." +
  base64UrlEncode(payload),
  eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6InJleXhncGZvcnR0dHVnc21hbXp0Iiwicm9sZSI6ImFub24iLCJpYXQiOiE2ODYxMzg4NjUsImV4cCI6MjAwMTcxNDg2NX0.FZDaPqk3HpYZmSmBWswpa9a3iEnlI8at7kn9i2Nm8ZI
) ☐ secret base64 encoded
```

[Signature Verified](#)

[SHARE JWT](#)

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.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6InJleXhncGZvenR0dHVnc21hbXp0Iiwicm9sZSI6ImFub24iLCJpYXQiOiJlZ20DYmZg4NjUsImV4cCI6MjAwMTc0NDg2NX0.04FPSQTaFXld3q_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.eyJpc3MiOiJzdXBhYmFzZSIsInJlZiI6InJleXhncGZvenR0dHVnc21hbXp0Iiwicm9sZSI6ImFub24iLCJpYXQiOiJlZ20DYmZg4NjUsImV4cCI6MjAwMTc0NDg2NX0.04FPSQTaFXld3q_uzLTGFZYTJgkQRjzQVQKtrymAUSU

Type of token

HEADER: ALGORITHM & TOKEN TYPE

PAYLOAD: DATA

VERIFY SIGNATURE

HMACSHA256(

base64UrlEncode(header) + "." +

base64UrlEncode(payload),

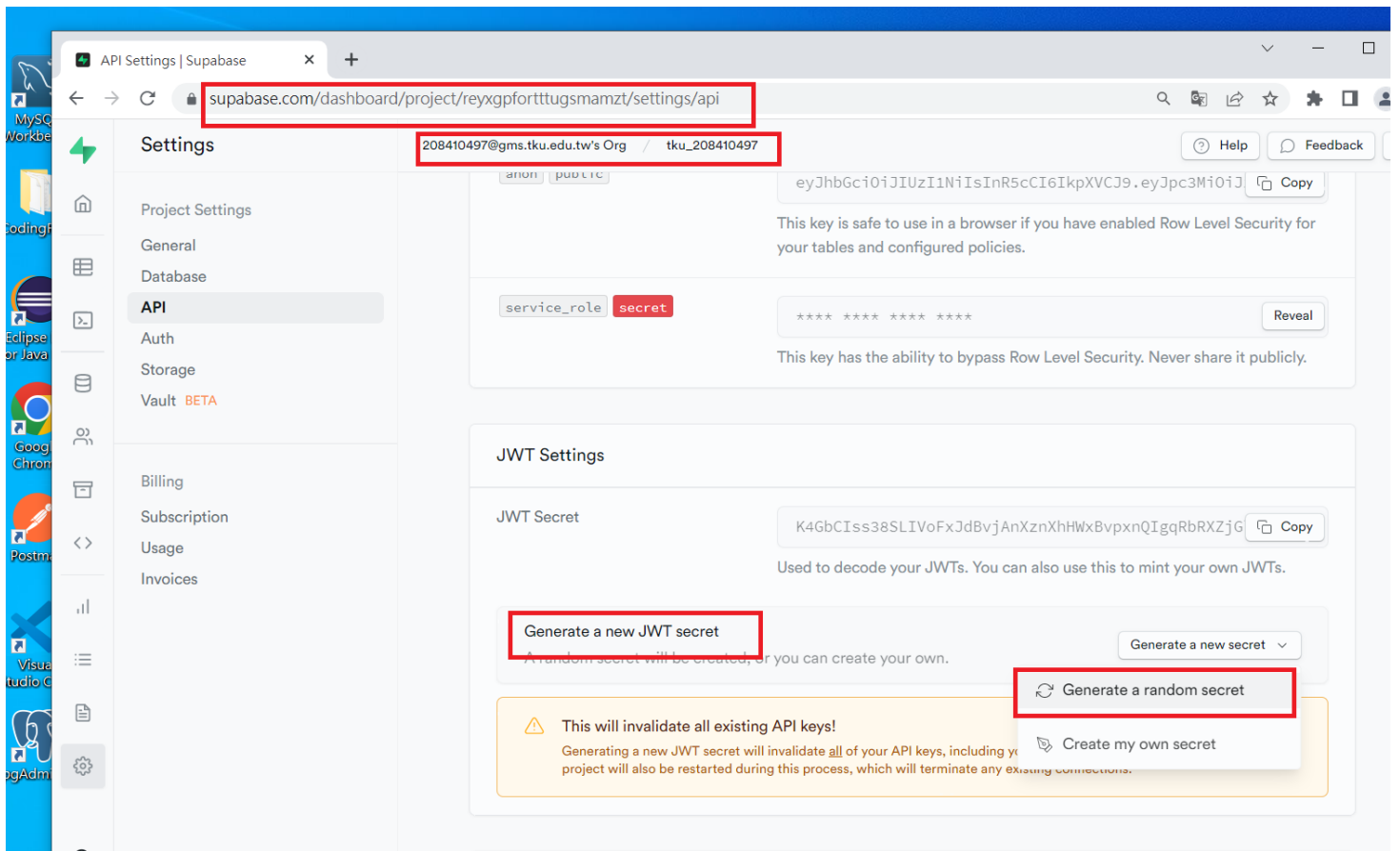
K4GbCIes38SLIVoFxJdBv:

) ☐ 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 status is **401 Unauthorized** with a response time of 70 ms and a body size of 567 B. The response body is shown in JSON format:

```
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

HomeWorkspacesAPI NetworkExplore

Search Postman

Invite

Upgrade

My Workspace

NewImport

Overview

GET https://reyxgpfortttugsmamzt.supabase.co/rest/v1/cart_97?select=*

No Environment

Collections

My first collection

First folder inside collection

Second folder inside collection

Create a collection for your requests

Create Collection

GET https://reyxgpfortttugsmamzt.supabase.co/rest/v1/cart_97?select=*

Send

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettingsCookies

Postman-Token<calculated when request is sent>

Host<calculated when request is sent>

User-AgentPostmanRuntime/7.30.1

Accept*/*

Accept-Encodinggzip, deflate, br

Connectionkeep-alive

apikeyeyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...

Body

200 OK641 ms1.91 KB

Save Response

PrettyRawPreviewVisualizeJSON

```
49  "amount": 1
50  }
51  {
52    "id": 8,
53    "title": "Samsung Galaxy Flip 4",
54    "price": 999.99,
55    "img": "https://reyxgpfortttugsmamzt.supabase.co/storage/v1/object/public/demo-97/cart-97/samsungs7.png",
56    "amount": 1
57  }
58  }
```

(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 panel shows a query result for 'select * from category2_97'. The query is executed, and the results are displayed in a table with 5 rows. The table has columns: id, name, size, remote_url, and local_url. The status bar at the bottom indicates 'Total rows: 5 of 5' and 'Query complete 00:00:00.141'.

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

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 bar at the top contains the endpoint: `https://reyxgpfortttugsmamzt.supabase.co/rest/v1/category2_97?select=*`. The Headers tab is selected, displaying the following headers:

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...	

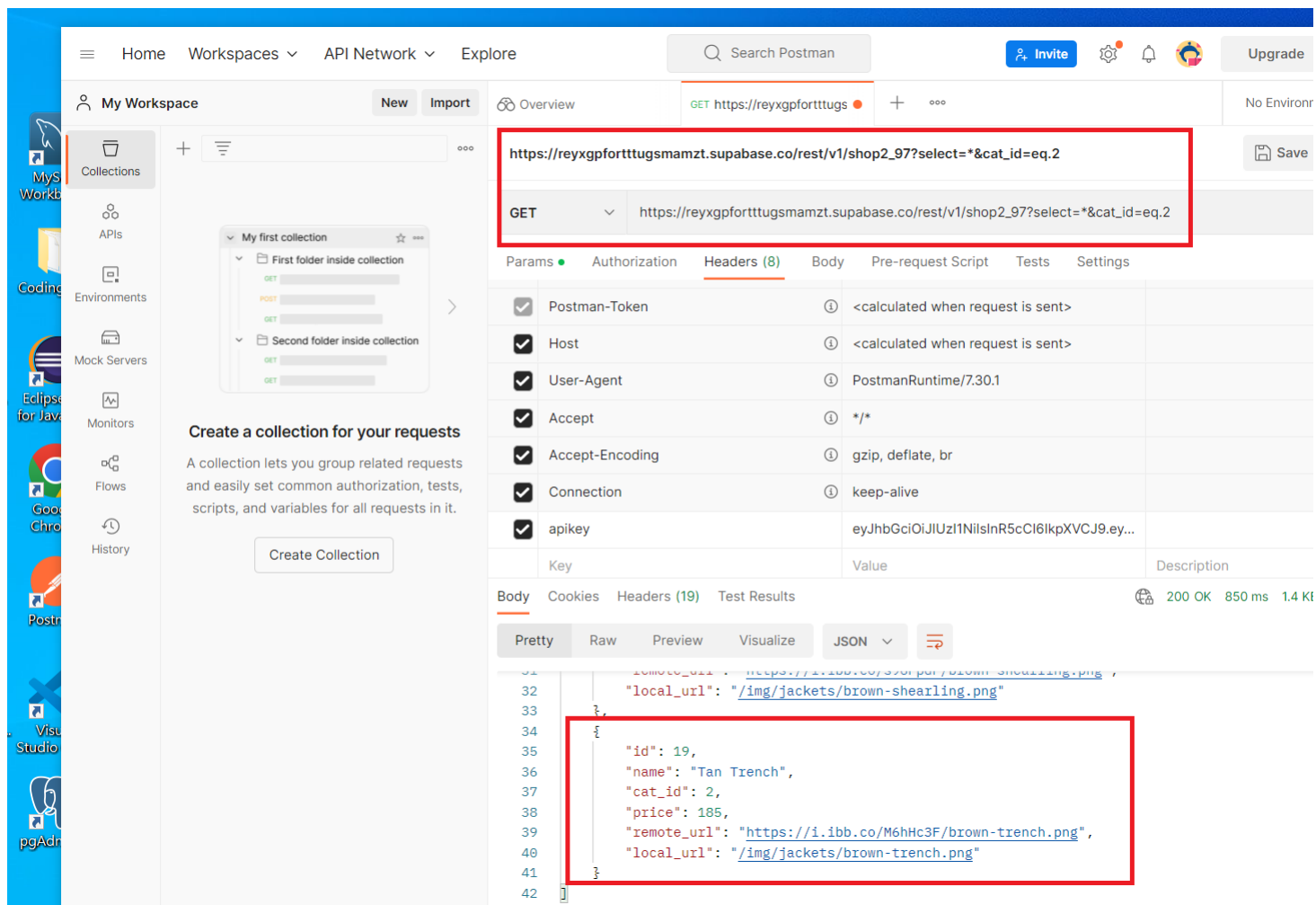
The Body tab shows the response in JSON format:

```
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 }
```

Two red boxes highlight the API key in the headers and the JSON response body.

(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

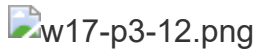
106d289a Pan208410497 Wed Jun 7 20:26:28 2023 +0800 P2: Supabase & Postman API testing

(35%) P3: React Using Supabase

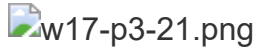
(10%) P3-1: Show Crown2 homepage with route /static_crown2_xx, by converting index.html directly to CrownStaticPage_xx.js

w17-p3-11.png

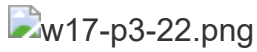
Wrapper code



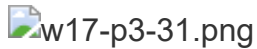
(10%) P3-2: Show Crown2 homepage with route /supa_crown2_xx, by fetching category data from Supabase and put them into Crown2SupaPage_xx.js



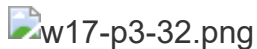
code for fetching category data



(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

Commits

main

Commits on Jun 7, 2023

Merge pull request #1 from Pan208410497/master

Verified

948efe2

Pan208410497 committed now

Done.

3332c82

Pan208410497 committed 4 minutes ago

P3: React Using Supabase

ca4571c

Pan208410497 committed 12 minutes ago

P2: Supabase & Postman API testing

106d289

Pan208410497 committed 12 minutes ago

P1: Show Info of Your Github Repo, Client Supa Github, Vercel as follows

1287d53

Pan208410497 committed 13 minutes ago