

(7%) Database 2A 期末上機考 1 -- 開放網路

2023,6,7, 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-db-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. 每一張圖片請放入 Supabase，必須以遠端圖片方式存在。
6. 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。
 - P1-1 (6%): 6 分
 - P1-2 (6%): 6 分
 - P1-3 (6%): 6 分
 - P1-4 (6%): 6 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
 - P3-1 (10%): 5 分
 - P3-2 (15%): 10 分
 - P4-3 (10%): 5 分
 - 總分: 85 分

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

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

[My Github Repo URL](#)

Dainear / 1112-2A-db-demo-410410228 Private

Code Issues Pull requests Actions Projects Security Insights Settings

main 1 branch 0 tags Go to file Add file <> Code About

No description, website, or topics provided.

Readme Activity 0 stars 2 watching 0 forks

Dainear w15 finish 0524 7fac154 2 weeks ago 31 commits

bin	w15 0524	2 weeks ago
demo	w15 finish 0524	2 weeks ago
public	add demo/md/w01 files	4 months ago
routes	w15 0524	2 weeks ago
utils	w15 0524	2 weeks ago
views	w12 0504 finish	last month
.gitignore	w11 0426	2 months ago
README.md	Initial commit	4 months ago
app.js	w15 0524	2 weeks ago
category_28.tar	w06 p4 not 0323	3 months ago
crown2_28.tar	w06 p4 not 0323	3 months ago

Releases No releases published Create a new release

Packages No packages published Publish your first package

(6%)P1-2: Show Your Github commits for week 14 and 15

Dainear / 1112-2A-db-demo-410410228 Private

Code Issues Pull requests Actions Projects Security Insights Settings

Commits

main

Commits on May 24, 2023

- w15 finish 0524 Dainear committed 2 weeks ago 7fac154
- w15 0524 Dainear committed 2 weeks ago 68b8081

Commits on May 18, 2023

- w14 0518 Dainear committed 3 weeks ago 1e60f93

Commits on May 17, 2023

- w14 0517 Dainear committed 3 weeks ago f9f93ed

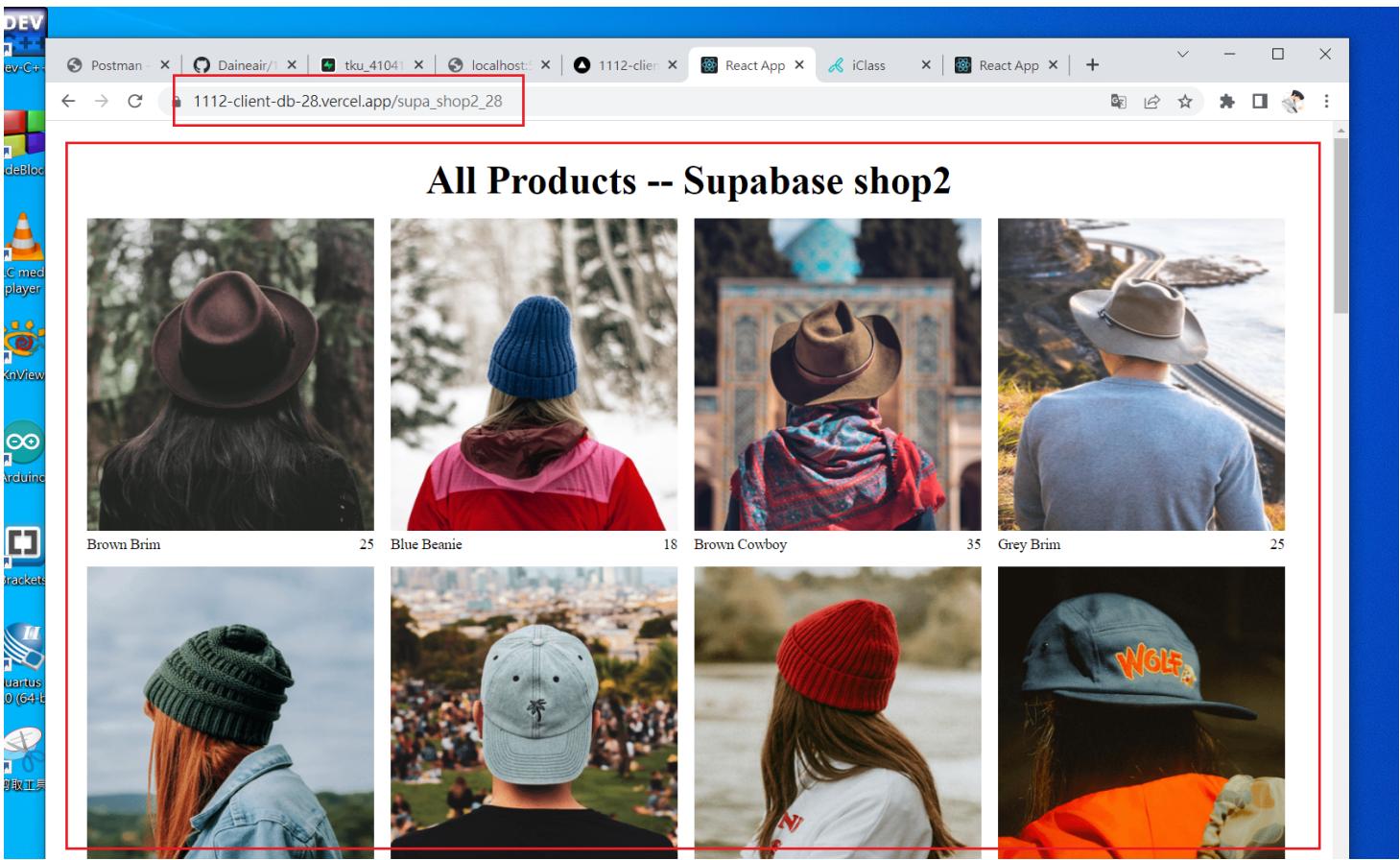
(6%)P1-3: Show Your Github Client DB

My Client DB Repo URL

The screenshot shows a browser window with multiple tabs open. The active tab is a GitHub repository page for 'Daineair / 1112-client-db_28'. The repository is private, has 1 branch, and 0 tags. It contains several files: public (w14 0517), src (w15 0524), .gitignore (w14 0517), README.md (w14 0517), notes.txt (w14 0517), package-lock.json (w14 0517), and package.json (w14 0517). The commit history shows 5 commits from w15 0524, with the most recent being 2 weeks ago. In the 'About' section, there is a link to '1112-client-db-28.vercel.app' which is highlighted with a red box. The 'Code' dropdown menu is also highlighted with a red box. The browser's address bar shows the URL 'github.com/Daineair/1112-client-db_28'.

(6%)P1-4: Show Your Vercel page for Client DB for route /supa_shop2_xx

My Vercel URL



(6%)p1-5: Git log for P1

A screenshot of a GitHub repository page for "Daineair / 1112-2A-db-demo-410410228". The page shows the commit history under the "main" branch. The commits are listed in chronological order: 1. A commit from June 7, 2023, titled "P1: Show Info of Your Github Repo, Client DB GitHub, Vercel as follows" by "Daineair committed now". 2. A commit from May 24, 2023, titled "w15 finish 0524" by "Daineair committed 2 weeks ago". 3. A commit from May 24, 2023, titled "w15 0524" by "Daineair committed 2 weeks ago". 4. A commit from May 18, 2023, titled "w14 0518" by "Daineair committed 3 weeks ago". The GitHub interface includes navigation links for Pull requests, Issues, Codespaces, Marketplace, and Explore.

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-6-6"
e7d9cb55      Daineair      Wed Jun 7 13:53:19 2023 +0800  P1: Show Info of Your Github Repo, Client DB Git
```

(35%)P2: Supabase & Postman API testing

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

old anon key

The screenshot shows a Windows desktop environment with a taskbar at the bottom. On the taskbar, there are several open browser tabs, including Postman, GitHub, API Sett, localho..., 1112-cl..., React A..., iClass, React A..., JSON W..., and the current tab, jwt.io. The jwt.io tab displays a JWT token being decoded.

Encoded: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJpc3MiOiJzdXBhYmFzZSIzInJlZiI6ImppZXodHRrdHVzdmI2Y3lxbmtpIiwicm9sZSI6ImFub24iLCJpYXQiOjE2ODYxMTc3ODcsImV4cCI6MjAwMTY5Mzc4N30.muYVpj1Vg_Mwv0cnButnZcI28pbWt9smaqfYF_MeDg

Decoded:

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

Payload:{ "iss": "supabase", "ref": "jiewhtktusvivcyqnki", "role": "anon", "iat": 1686117787, "exp": 2001693787 }

VERIFY SIGNATURE:HMACSHA256(base64UrlEncode(header) + "." + base64UrlEncode(payload), "yN01HCK2oNuK5R+ZlVbts") secret base64 encoded

Signature Verified

SHARE JWT

new anon key by generating a new JWT secret

The screenshot shows the jwt.io website interface. On the left, under 'Encoded', a long string of characters is displayed, which is the JWT token. On the right, under 'Decoded', the token's structure is shown in JSON format:

```
{ "alg": "HS256", "typ": "JWT" }{ "iss": "supabase", "ref": "jiewhtktusivcyqnki", "role": "anon", "iat": 1686118212, "exp": 2001694212 }
```

Below the decoded token, a red box highlights the 'Signature Verified' message.

The screenshot shows the Supabase dashboard under the 'API Settings' section. On the left sidebar, 'API' is selected. In the main area, it says 'Your API is secured behind an API gateway which requires an API Key for every request. You can use the keys below to use Supabase client libraries.' Below this, two sets of API keys are listed: 'anon' (public) and 'service_role' (secret). The 'secret' key is highlighted with a red box. At the bottom, there is a 'JWT Settings' section with a 'JWT Secret' field containing a long string of characters. A button labeled 'Generate a new JWT secret' is highlighted with a red box. A warning message states: '⚠️ This will invalidate all existing API keys! Generating a new JWT secret will invalidate all of your API keys, including y...'. A tooltip for this button says: 'A random secret will be created, or you can create your own.' Another tooltip for the 'Generate a new secret' dropdown says: 'Used to decode your JWTs. You can also use this to mint your own JWTs.' A 'Create my own secret' button is also visible.

(10%)P2-2: Use Postman to get all shop2 products

Postman, old anon key, fail to get all shop2 products

The screenshot shows the Postman application interface. On the left, the sidebar lists 'My Workspace' with a collection named '1112-supabase-2A-410410228'. Inside this collection, there is a GET request titled 'Get all products from shop2_28 (no RLS)'. The request URL is `https://jiewhttktusivvcyqnnki.supabase.co/rest/v1/shop2_28?select=*`. The 'Headers' tab is selected, showing two entries: 'apikey' with value `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpxVCJ9.eyJ...` and 'Authorization' with value `Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpxV...`. The 'Body' tab is collapsed. Below the request details, the 'Test Results' section is expanded, showing a response status of 401 Unauthorized with a response time of 241 ms and a body size of 567 B. The response body is displayed in JSON format:

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

Postman, new anon key, successfully get all shop2 products

The screenshot shows the Postman interface with the following details:

- Workspace:** My Workspace
- Collection:** 1112-supabase-2A-410410228
- Request:** GET / Get all products from shop2_28 (no RLS)
- URL:** https://jewhttktusvivcyqnnki.supabase.co/rest/v1/shop2_28?select=*
- Headers (9):** apikey, Authorization
- Authorization (Key):** Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJpc3MiUlJzdXBhYmFzZSIsInJlZil6ImppZXdo dHRdHVzdlm2Y3lxbmtpIwlwicm9sZSl6ImFu b24iLCJpYXQiOjE2ODYxMTgyMTIiSmV4cCl 6MjAwMTY5NDIxMn0.hHNQnVOG4v_WVzP _9m6AQYbp3OlbeWvyoHQqwjPC_
- Body:** JSON response (Pretty view) showing a single product item:

```
272 "local_url": "/img/mens/roll-up-jean-shirt.png"
273 {
274   "id": 40,
275   "name": "Burgundy T-shirt",
276   "cat_id": 5,
277   "price": 25,
278   "remote_url": "https://i.ibb.co/mh3VM1f/polka-dot-shirt.png",
279   "local_url": "/img/mens/polka-dot-shirt.png"
280 }
281
282 }
```

(10%)P2-3: create category2_xx (no RLS) to contain five categories of Crown homepage

show five category data in Supabase

The screenshot shows the Supabase Table editor interface. The left sidebar lists several tables under the 'Tables (6)' section, with 'category2_28' highlighted by a red box. The main area displays the 'category2_28' table with the following data:

	id	name	size	remote_url
1	1	hats	NULL	https://i.ibb.co/cvpnL1/hats.png
2	2	jackets	NULL	https://i.ibb.co/px2tCc3/jackets.png
3	3	sneakers	NULL	https://i.ibb.co/0jqHpnP/sneakers.png
4	4	womens	large	https://i.ibb.co/GCCdy8t/womens.png
5	5	mens	large	https://i.ibb.co/R70vBrQ/men.png

At the top of the table view, there is a warning message: "WARNING: You are allowing anonymous access to your table. Enable Row Level Security." A red box highlights this message. The top navigation bar shows the URL 'supabase.com/dashboard/project/jiewhttktusivcyqnki/editor/29223'. The top right corner of the window has a close button.

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

The screenshot shows the Postman interface with a collection named "1112-supabase-2A-410410228". A red box highlights the "Get all categories from category2_28 (no RLS)" request. The request details show a GET method and the URL https://jiewhtktusivcyqnnki.supabase.co/rest/v1/category2_28?select=*. The "Authorization" section contains a Bearer token. The response body is displayed in JSON format, showing a single category object with an ID of 5, name "mens", size "large", and URLs for remote and local images. A red box highlights this JSON response.

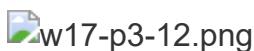
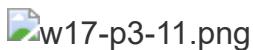
(5%)p2-4: Git log for P2

The screenshot shows a GitHub repository page for "Daineair / 1112-2A-db-demo-410410228". The "Code" tab is selected. A red box highlights a commit on June 7, 2023, titled "P2: Supabase & Postman API testing" made by "Daineair committed now". Another commit is visible below it. The "Commits" section shows commits for May 24, 2023, and May 18, 2023, with titles like "w15 finish 0524" and "w15 0524". A red box highlights the commit "w15 finish 0524". The GitHub interface includes standard navigation and repository management buttons.

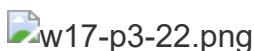
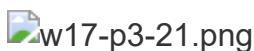
```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-6-6"
4a2b3ad3      Daineair      Wed Jun 7 14:37:23 2023 +0800  P2: Supabase & Postman API testing
e7d9cb55      Daineair      Wed Jun 7 13:53:19 2023 +0800  P1: Show Info of Your Github Repo, Client DB Git
```

(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

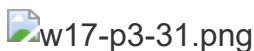


(15%) P3-2: Show Crown2 homepage with route /supa_crown2_xx, by fetching category data from Supabase and put them into Crown2SupaPage_xx.js

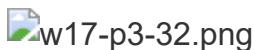


(10%) P3-3: make navbar works for Shop2 and Logo

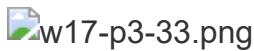
Shop2 link to the route /supa_shop2_xx



show code in w17-p3-32.png



Logo link to the route /supa_crown2_xx



show code in w17-p3-34.png

