

(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-supabase-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): (name, id)

- P1-1 (6%): ? 分
- P1-2 (6%): ? 分
- P1-3 (6%): ? 分
- P1-4 (6%): ? 分
- P1-5 (6%): ? 分
- P2-1 (10%): ? 分
- P2-2 (10%): ? 分
- P2-3 (10%): ? 分
- P2-4 (5%): ? 分
- P3-1 (10%): ? 分
- P3-2 (10%): ? 分
- P3-3 (10%): ? 分
- P3-4 (5%): ? 分
- 總分: ? 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 'htchung / 1112_2N_wp2_demo_id'. The page is in dark mode. Several sections are highlighted with red boxes:

- The repository URL in the address bar: `https://github.com/htchung/1112_2N_wp2_demo_id` (Private)
- The commit count indicator: `77 commits` (highlighted in a red box)
- The 'About' section: `No description, website, or topics provided.`
- The 'Activity' section: `0 stars`, `1 watching`, `0 forks`
- The 'Releases' section: `No releases published`, `Create a new release`
- The 'Packages' section: `0` (highlighted in a red box)

The main content area lists files and their commit history:

File	Description	Time Ago
bin	W15-P3: fetch menu data from local Node PostgreSQL	2 weeks ago
demo	add demo/w16 cocktail code	last week
dev-server	W16-P1: Display the <Home /> page with 3 static cockt...	last week
public	setup w03 starter code	4 months ago
routes	W15-P3: fetch menu data from local Node PostgreSQL	2 weeks ago
utils	W04-P1: Connect Supabase, create card_xx table with 9 ...	3 months ago
views	W03-P2: fetch 9 data from card_xx table and placed in c...	4 months ago
.gitignore	W03-P3: create card_xx tale in SUPABASE	4 months ago

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

The screenshot shows a GitHub repository page for `htchung / 1112_2N_wp2_demo_id`. The main navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The 'Code' tab is selected. Below the navigation is a 'Commits' section with a dropdown menu set to 'main'. A red box highlights the commit list for May 31, 2023, which contains seven commits by user `htchung` from last week. Another red box highlights the commit list for May 30, 2023, which contains one merge commit. A third red box highlights the commit list for May 24, 2023, which contains four commits by user `htchung` from two weeks ago.

- Commits on May 31, 2023
 - add demo/w16 cocktail code (htchung committed last week)
 - W16-P4: Display the <SingleCocktail_xx /> page (htchung committed last week)
 - W16-P3: implement <SearchForm_xx /> (htchung committed last week)
 - W16-P2: Display <Home /> with searchTerm = 'a' (htchung committed last week)
 - W16-P1: Display the <Home /> page with 3 static cocktails (htchung committed last week)
 - add dev/w16 cocktails (htchung committed last week)
- Commits on May 30, 2023
 - Merge branch 'main' of https://github.com/htchung/1112_2N_wp2_demo_id (htchung committed last week)
- Commits on May 24, 2023
 - w15 finish up (htchung committed 2 weeks ago)
 - W15-P4: fetch menu data from local.json (htchung committed 2 weeks ago)
 - W15-P3: fetch menu data from local Node PostgreSQL (htchung committed 2 weeks ago)
 - W15-P2: rewrite MenuByCategoryPage_xx.js can handle filter buttons (htchung committed 2 weeks ago)

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

My Github SupaDemo URL

The screenshot shows a GitHub repository page for `htchung / 1112-client-db_123456789`. The main navigation bar includes links for Pull requests, Issues, Codespaces, Marketplace, and Explore. The 'Code' tab is selected. A red box highlights the repository URL in the top navigation bar. The repository details section shows 1 branch and 0 tags. A green button labeled 'Code' is highlighted. The commit list shows several commits by user `htchung`, including a commit titled 'answer for Wednesday exam'. On the right side, there is an 'About' section with a red box highlighting the URL `1112-client-db-xx.vercel.app`. The 'About' section also lists Readme, Activity, 0 stars, 1 watching, and 0 forks. There is also a 'Releases' section indicating 'No releases published'.

htchung / 1112-client-db_123456789 Private

1 branch 0 tags

Switch branches or tags

htchung answer for Wednesday exam

1 b956cd9 1 hour ago 7 commits

public add Crown2 static and supabase page 2 days ago

src answer for Wednesday exam 1 hour ago

.gitignore first commit 3 weeks ago

README.md first commit 3 weeks ago

package-lock.json first commit 3 weeks ago

package.json first commit 3 weeks ago

About

1112-client-db-xx.vercel.app

Readme

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

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

My Vercel SupaDemo URL

The screenshot shows a browser window displaying a restaurant menu. The URL in the address bar is https://1112-client-supra-123456789.vercel.app/supa_menu_xx. The page has a header with the title "Menu From Supabase Menu Table" and subtitle "Hsingtai Chung, 123456789". Below the header is a navigation bar with buttons for "All", "Breakfast", "Lunch", "Dessert", and "Shakes". The main content area displays six menu items in a grid:

Image	Name	Price	Description
	Buttermilk Pancakes	15.59	Lore ipsum dolor sit amet consectetur adipisicing elit. Quam dolores ut iusto quas quia dignissimos ullam. Enim voluptas, expedita
	Diner Double	13.99	Lore ipsum dolor sit amet consectetur adipisicing elit. Quam dolores ut iusto quas quia dignissimos ullam. Enim voluptas, expedita
	Godzilla Milkshake	6.99	Lore ipsum dolor sit amet consectetur adipisicing elit. Quam dolores ut iusto quas quia dignissimos ullam. Enim voluptas, expedita
	Country Delight	20.99	Lore ipsum dolor sit amet consectetur adipisicing elit. Quam dolores ut iusto quas quia dignissimos ullam. Enim voluptas, expedita
	Egg Attack	2.99	Lore ipsum dolor sit amet consectetur adipisicing elit. Quam dolores ut iusto quas quia dignissimos ullam. Enim voluptas,
	Oreo Dream	18.99	Lore ipsum dolor sit amet consectetur adipisicing elit. Quam dolores ut iusto quas quia dignissimos ullam. Enim voluptas,

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

1811a74 htchung Wed Jun 7 16:54:12 2023 +0800 P1: Show Info of Your Github Repo, Client DB Github, Vercel as fo

The screenshot shows a GitHub repository page for 'htchung / 1112_2N_wp2_demo_id'. The repository is private. The main navigation bar includes links for Pull requests, Issues, Codespaces, Marketplace, and Explore. Below the repository name, there are links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The 'Code' link is underlined, indicating it is the active tab. The page title is 'Commits'. A dropdown menu shows 'main' is selected. The commit history starts with a commit from 'htchung' on June 7, 2023, with the message 'P1: Show Info of Your Github Repo, Client DB Github, Vercel as follows'. This commit is highlighted with a red box. Another commit from the same user on May 31, 2023, is also listed.

htchung / 1112_2N_wp2_demo_id Private

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Commits

main

-o Commits on Jun 7, 2023

P1: Show Info of Your Github Repo, Client DB Github, Vercel as follows
htchung committed 2 minutes ago

-o Commits on May 31, 2023

(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 interface. On the left, there's a sidebar with various icons. The main area has two sections: 'Encoded' and 'Decoded'. In the 'Encoded' section, a long string of characters is pasted into a red-bordered input field. In the 'Decoded' section, the token is broken down into its components: 'HEADER: ALGORITHM & TOKEN TYPE' (containing JSON: {"alg": "HS256", "typ": "JWT"}), 'PAYLOAD: DATA' (containing JSON: {"iss": "supabase", "ref": "erogcveccbzsyhbgputf", "role": "anon", "iat": 1683698215, "exp": 1999274215}), and 'VERIFY SIGNATURE' (containing HMACSHA256 code). A red box highlights the 'your-256-b+XEjh4eaQOB' part of the verification code. At the bottom left, a red box highlights the 'Signature Verified' message, and at the bottom right, a blue button says 'SHARE JWT'.

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

Encoded PASTE A TOKEN HERE

Decoded EDIT THE PAYLOAD AND SECRET

HEADER: ALGORITHM & TOKEN TYPE

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

PAYOUT: DATA

```
{  
  "iss": "supabase",  
  "ref": "erogcveccbzsyhbgputf",  
  "role": "anon",  
  "iat": 1683698215,  
  "exp": 1999274215  
}
```

VERIFY SIGNATURE

```
HMACSHA256(  
  base64UrlEncode(header) + "." +  
  base64UrlEncode(payload),  
  your-256-b+XEjh4eaQOB|  
) || secret base64 encoded
```

Signature Verified

SHARE JWT

new anon key by generating a new JWT secret

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

```
HEADER: ALGORITHM & TOKEN TYPE
{
  "alg": "HS256",
  "typ": "JWT"
}

PAYLOAD: DATA
{
  "iss": "supabase",
  "ref": "erogcvecccbzyhbgputf",
  "role": "anon",
  "iat": 1686039859,
  "exp": 2001615859
}

VERIFY SIGNATURE
HMACSHA256(
  base64UrlEncode(header) + "." +
  base64UrlEncode(payload),
  JjXig0Nc83rQPsD8Y3cQ==)
) □ secret base64 encoded
```

A red box highlights the 'Signature Verified' message at the bottom left, and another red box highlights the payload section of the decoded token.

The screenshot shows the Supabase dashboard under the 'Settings' tab. The 'API' section is selected. In the 'JWT Settings' area, there is a button labeled 'Generate a new JWT secret' with a red box around it. A warning message below it states: 'This will invalidate all existing API keys! Generating a new JWT secret will invalidate all of your API keys, including the current one. Your project will also be restarted during this process, which will terminate any existing connections.' To the right of the button is a dropdown menu with the option 'Generate a new secret'.

(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 a Postman request to `https://erogcveccbzsyhbputf.supabase.co/rest/v1/menu_xx?select=*`. The Headers tab shows an `apikey` field with a value of `eyJhbGciOiJIUzI1NiIsInR5cCl6IkpxVCJ9eyJpc3...` and an `Authorization` field with a value of `Bearer eyJhbGciOiJIUzI1NiIsInR5cCl6IkpxVCJ9eyJ...` . The response body is a JSON object with a message: `{"message": "Invalid API key", "hint": "Double check your Supabase `anon` or `service_role` API key."}`.

Postman, new anon key, successfully get all menu_xx products

The screenshot shows a Postman request to `https://erogcveccbzsyhbputf.supabase.co/rest/v1/menu_xx?select=*`. The Headers tab shows a `Host` field with a value of `<calculated when request is sent>`, a `User-Agent` field with a value of `PostmanRuntime/7.32.2`, and other standard headers like `Accept`, `Accept-Encoding`, `Connection`, `keep-alive`, `apikey`, and `Authorization`. The response body is a JSON array of menu items, with the first item being: `[{"id": 10, "title": "brooke lark", "category": "breakfast", "price": 9.99, "img": "https://erogcveccbzsyhbputf.supabase.co/storage/v1/object/public/demo-xx/md_img/brooke-lark.jpg", "descrip": "Sometimes the very best breakfast eats are the simple"}]`.

(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 interface. On the left, the database structure is listed under 'Tables (12)'. The 'category2_xx' table is selected and highlighted with a red box. The 'shop2_xx' table is also visible further down the list. In the center, a query window displays the following SQL code:

```
1 SELECT * FROM public.category2_xx
2 ORDER BY id ASC
```

The results of the query are shown in a table titled 'Data Output' with columns: id [PK] integer, name character varying, size character varying, remote_url character varying, and local_url character varying. The data is as follows:

	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/cvpnL1/hats.png	/img/homepage/hats.png
2	2	jackets	[null]	https://i.ibb.co/px2tCc3/jackets.png	/img/homepage/jackets.png
3	3	sneakers	[null]	https://i.ibb.co/0jqHpn/p/sneakers.png	/img/homepage/sneakers.png
4	4	womens	large	https://i.ibb.co/GCCdy8t/womens.png	/img/homepage/womens.png
5	5	mens	large	https://i.ibb.co/R70vBrQ/men.png	/img/homepage/mens.png

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

The screenshot shows the Postman interface. On the left, the 'Collections' section lists several environments, with '1112-supabase-2N' selected and highlighted with a red box. In the main area, a 'GET' request is configured with the URL https://erogcveccbzbzsyhbput.supabase.co/rest/v1/category2_xx?select=*. The 'Headers' tab is selected, showing the following headers:

- Accept: */*
- Accept-Encoding: gzip, deflate, br
- Connection: keep-alive
- apikey: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJpc3MiOluZdxBhYmfzzSislnJlZl6lmvzb2djmVY2J6c3loYmdwdXRmlwiicm9sZS16imFub24iLCJpYXQiOjE2ODYwMzk4NTkslmV4cCl6MjAwMTYxNtg10X0.s4aSbXTaxSVuLnW6t6zcsJkGalYoVh.Ozp.p477xig
- Authorization: (Key)

The 'Body' tab shows the response data in JSON format, which includes two categories: 'womens' and 'mens'. The 'Pretty' tab shows the expanded JSON structure.

(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%) Git log for P2

remember to git log for P2

4f4951b htchung Wed Jun 7 16:57:57 2023 +0800 P2: Supabase & Postman API testing

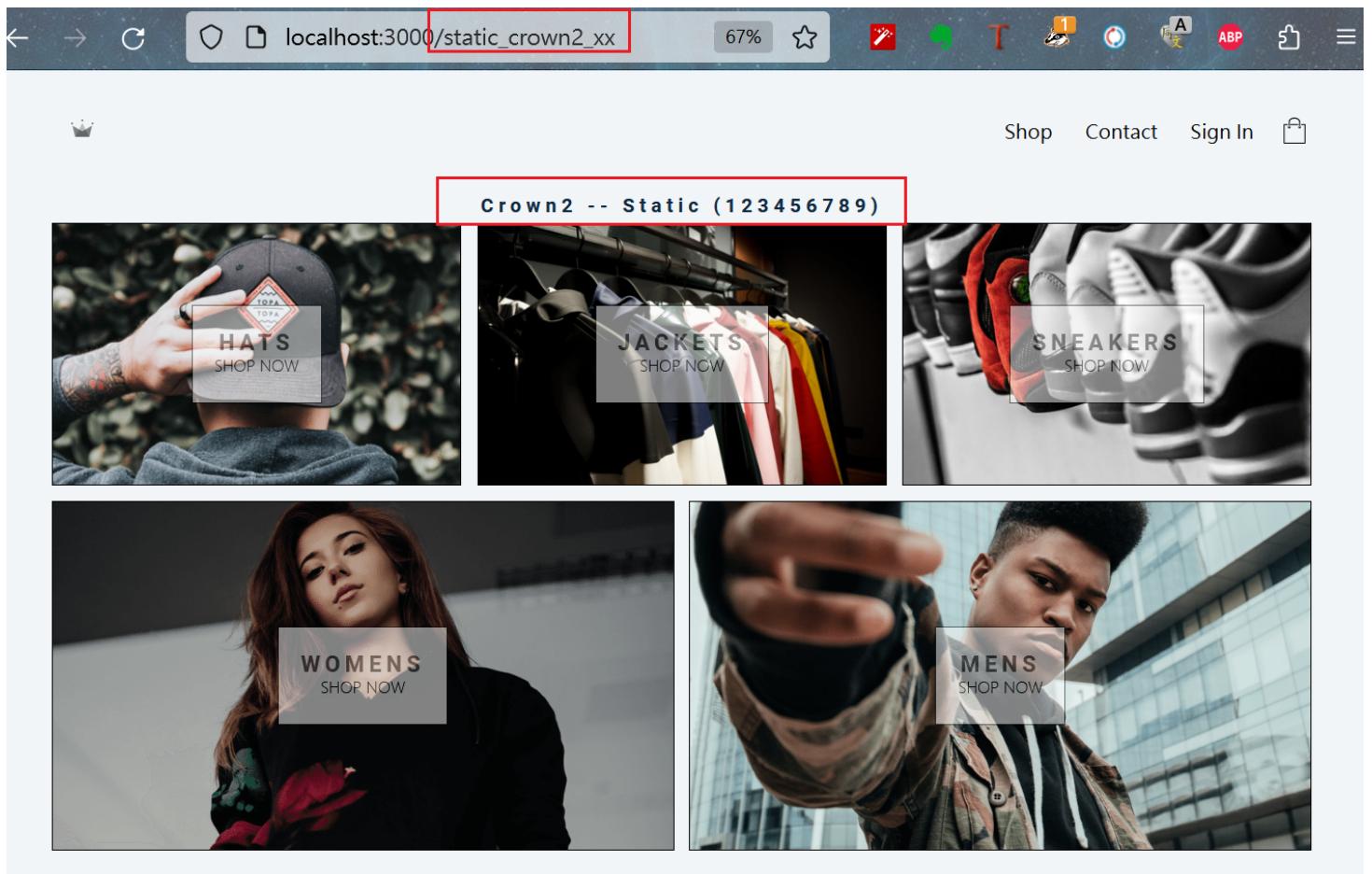
The screenshot shows the Postman interface with the following details:

- Collection:** My Workspace
- Request:** GET products of cat_id=4 from shop2_xx
- URL:** https://erogcveccbzsy/hbgputf.supabase.co/rest/v1/shop2_xx?select=*&cat_id=eq.4
- Headers:** (8)
 - Accept: */*
 - Accept-Encoding: gzip, deflate, br
 - Connection: keep-alive
 - apikey: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3...
 - Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9....
- Body:** (Pretty)

```
47      "remote_url": "https://i.ibb.co/vicvwNf/yellow-track-suit.png",
48      "local_url": "/img/womens/yellow-track-suit.png"
49    },
50    {
51      "id": 34,
52      "name": "white Blouse",
53      "cat_id": 4,
54      "price": 20,
55      "remote_url": "https://i.ibb.co/qBcrsJg/white-vest.png",
56      "local_url": "/img/womens/white-vest.png"
57    }
58  ]
```
- Status:** 200 OK
- Time:** 861 ms
- Size:** 1.68 KB

(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



Wrapper code

The screenshot shows the VS Code interface with the following details:

- File Explorer:** Shows the project structure. A red box highlights the file `JS Crown_xx.js` under `src/assets/wrapper`.
- Editor:** Displays the code for `Crown_xx.js`. A red box highlights the entire content of the file.
- Terminal:** Shows the output of the build process, indicating 1 warning.

```
import styled from 'styled-components';
const Wrapper = styled.div`
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

/* body {
  font-family: 'Open Sans Condensed';
  padding: 20px 60px;
}

code {
  font-family: source-code-pro, Menlo, Monaco,
  Consolas, 'Courier New',
  monospace;
}

a {
  text-decoration: none;
  color: black;
}
```

webpack compiled with 1 warning

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

Crown2 -- Supabase (123456789)

Hats SHOP NOW

Jackets SHOP NOW

Sneakers SHOP NOW

Womens SHOP NOW

Mens SHOP NOW

props

```
new entry: ""
```

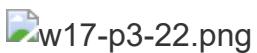
hooks

```
1 State: [{}]
```

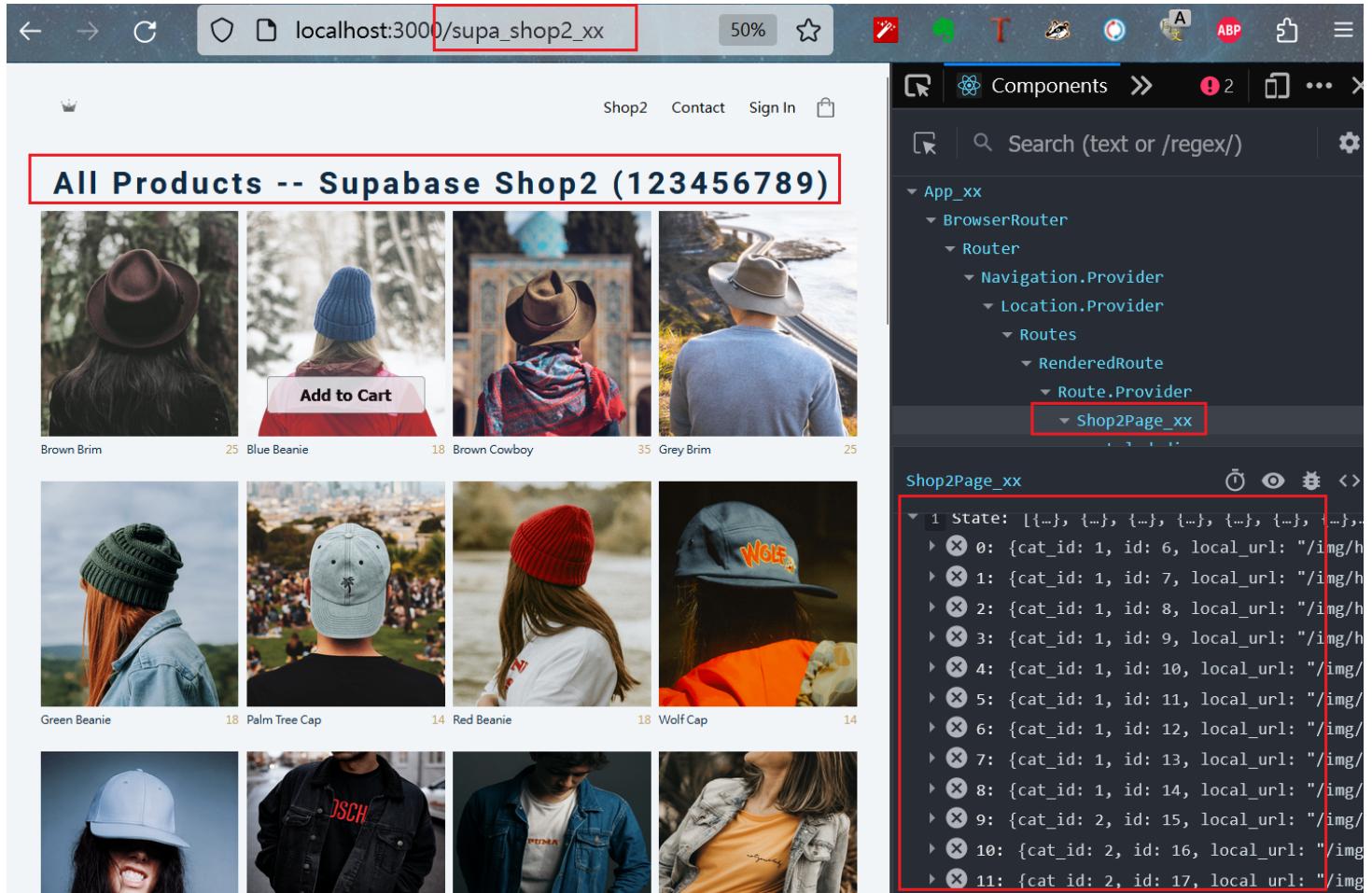
- ▶ 0: {id: 1, link_url: "/crown2_xx/shop2_x..."}
▶ 1: {id: 2, link_url: "/crown2_xx/shop2_x..."}
▶ 2: {id: 3, link_url: "/crown2_xx/shop2_x..."}
▶ 3: {id: 4, link_url: "/crown2_xx/shop2_x..."}
▶ 4: {id: 5, link_url: "/crown2_xx/shop2_x..."}
new entry

```
2 Effect: f () {}
```

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



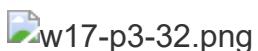
The screenshot shows a web browser window with the URL `localhost:3000/supa_shop2_xx`. The page content is a grid of 12 product images, each with a name and a quantity. The products are:

- Brown Brim (25)
- Blue Beanie (18)
- Brown Cowboy (35)
- Grey Brim (25)
- Green Beanie (18)
- Palm Tree Cap (14)
- Red Beanie (18)
- Wolf Cap (14)
- White Cap (18)
- JSCH Denim Jacket (18)
- Denim Jacket (18)
- Orange T-shirt (14)

To the right of the browser is a developer tools sidebar. The component tree shows the structure of the application. The state of the `Shop2Page_xx` component is highlighted with a red box and contains the following data:

```
1 State: [{}]
  ▾ 0: {cat_id: 1, id: 6, local_url: "/img/h..."}
  ▾ 1: {cat_id: 1, id: 7, local_url: "/img/h..."}
  ▾ 2: {cat_id: 1, id: 8, local_url: "/img/h..."}
  ▾ 3: {cat_id: 1, id: 9, local_url: "/img/h..."}
  ▾ 4: {cat_id: 1, id: 10, local_url: "/img/h..."}
  ▾ 5: {cat_id: 1, id: 11, local_url: "/img/h..."}
  ▾ 6: {cat_id: 1, id: 12, local_url: "/img/h..."}
  ▾ 7: {cat_id: 1, id: 13, local_url: "/img/h..."}
  ▾ 8: {cat_id: 1, id: 14, local_url: "/img/h..."}
  ▾ 9: {cat_id: 2, id: 15, local_url: "/img/h..."}
  ▾ 10: {cat_id: 2, id: 16, local_url: "/img/h..."}
  ▾ 11: {cat_id: 2, id: 17, local_url: "/img/h..."}
```

code for fetching category data



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

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-6-6"

f6d0cd7 htchung Wed Jun 7 17:02:14 2023 +0800      P3: React Using Supabase
4f4951b htchung Wed Jun 7 16:57:57 2023 +0800      P2: Supabase & Postman API testing
1811a74 htchung Wed Jun 7 16:54:12 2023 +0800      P1: Show Info of Your Github Repo, Client Supa Github, Vercel as
```

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

htchung / 1112_2N_wp2_demo_id Private Unwatch 1 ▾

Code Issues Pull requests Actions Projects Wiki Security Insights

Commits

main ▾

Commits on Jun 7, 2023

P3: React Using Supabase
htchung committed 1 minute ago

P2: Supabase & Postman API testing
htchung committed 5 minutes ago

P1: Show Info of Your Github Repo, Client Supa Github, Vercel as follows
htchung committed 9 minutes ago