

Github URL

Github Vercel

Vercel api project URL

P1: get menu items from local json (product.json)

參考到的 API 網站來源：

Store rest URL

使用上學期補交作業之前端頁面套用到此次 API 上，因為主題與服飾網路商店有關，上網找到有關商店的 API 網站(Store rest API)作為這次 projects.json 的資源。

The screenshot shows the documentation page for the StoreApi. The left sidebar has sections for Product, User, and Category. The Product section is expanded, showing endpoints like Get all products, Get a single product, etc. The main content area is titled 'Guide' and contains code snippets for 'Get all Products' and 'Get a single product'. The 'Get all Products' snippet is:

```
fetch('https://api.storerestapi.com/products')
  .then(response => response.json())
  .then(json => console.log(json))
```

The 'Get a single product' snippet is:

```
fetch('https://api.storerestapi.com/products/running-sneaker')
  .then(response => response.json())
  .then(json => console.log(json))
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a project structure with folders like .vscode, css, demo, API-project, api, js, md, Api-project, w01-w11, and w015_40.md.
- Product.json Content:** The file is highlighted in the center. Its content is as follows:


```
{
        "_id": "61ab420c0f34753bcdfa787",
        "title": "special cotton shirt for men",
        "price": 15,
        "category": {
          "_id": "61ab1ca64a0fef3f27dc663f",
          "name": "BRA TOP",
          "slug": "mens-fashion"
        },
        "description": "",
        "createdBy": {
          "role": "ROLE_CUSTOMER",
          "_id": "612e49b9345dcc333ac6cb41",
          "name": "Sofia Lily"
        },
        "createdAt": "2021-12-04T10:25:16.546Z",
        "updatedAt": "2021-12-11T03:14:40.195Z",
        "slug": "special-cotton-shirt-for-men",
        "image": "./images/item.1.png"
      }
```

實作過程：

參考 w15store-product，將網路上找來的 API 製作出 product.json，使用 fetchData 非同步(async、await)抓到 product.json 陣列。

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a project structure with folders like .vscode, css, demo, API-project, api, js, md, Api-project, w01-w11, and w015_40.md.
- app_40.js Content:** The file contains JavaScript code for fetching data. The relevant part is highlighted in red:


```
// const url = 'https://api.storerestapi.com/products';
const url = './api/product.json';

const pContainer = document.querySelector('.item-center');
const shopBtns = document.querySelectorAll('.btn-2');
const search = document.querySelector('#search'); //id用#
const submit = document.querySelector('#submit');
const mealsEl = document.querySelector('#meals');

// const為常數，須給定值，let為變數
let allProducts;
let products; //篩選出來的product

const fetchData = async () => {
  try {
    const response = await fetch(url);
    const data = await response.json();
    console.log('fetch data', data);
    return data;
  } catch (err) {
    console.log(err);
  }
}

const displayItems = (products) => [
  // 讀取陣列內容
  const array = [];
  for (let i=1; i<20; i++){
    array.push(i);
  }
  let displayContent = products.map((product) => {
    const [price, title, image] = product;
    return`
```

從 local json 中 return 出陣列中的內容，再透過監聽 console 出 allProducts 的內容

Visual Studio Code (left) and Google Chrome DevTools (right) showing the code and the resulting product listing page.

```

18 const fetchData = async () => {
19   try {
20     const response = await fetch(url);
21     const data = await response.json();
22     console.log('fetch data', data);
23     return data;
24   } catch (err) {
25     console.log(err);
26   }
27 }
28
29 const displayItems = (products) => {
30   // 檢取陣列內容
31   const array = [];
32   for (let i=1; i<20; i++){
33     array.push(i);
34   }
35   let displayContent = products.map((product) => {
36     const [price, title, image] = product;
37     return`
38       <article class="item">
39         
44         <div class="item-content">
45           <h1>F</h1>
46           <h2>商品編號 052519</h2>
47           <h3>${title}</h3>
48           <h4>NT. ${price}</h4>
49         </div>
50       </article>
51     `;
52   });
53   // console.log('displayContent', displayContent);
54   pContainer.innerHTML = displayContent;
55 }
56
57 window.addEventListener('DOMContentLoaded', async () => {
58   allProducts = await fetchData();
59   console.log('all products', allProducts);
60   await displayItems(allProducts);
61 });

```

The DevTools Network tab shows the request to `127.0.0.1:5502/demo/API-project/index.html?#section-tiles` and the response body containing the fetched product data.

完成以及未完成：

Done

Google Chrome browser screenshot showing the final product listing page.

The page has a header "NT.1200 FREE SHIPPING" and navigation links: NEW ARRIVALS, ALL ITEMS, MADE IN KOREA, RECOMMEND, and a search bar.

The main content area displays a grid of product cards. Each card includes a thumbnail image, a product name, and a price.

- Card 1:** End of May Special Cotton Shirt For Men NT.15
- Card 2:** High Quality Men Distress Skinny Blue Jeans NT. 90
- Card 3:** Cotton O Neck Mens Clothing T Shirts NT. 30
- Card 4:** (partially visible)
- Card 5:** (partially visible)
- Card 6:** (partially visible)

The sidebar on the left lists various categories and filters.

P2: get company products by pressing shop buttons

實作過程(一樣使用 Store rest API)：

在 HTML 中加入 data-id，利用 dataset 呼叫，取得 data-id 的值。

The screenshot shows the development environment with the following components:

- Code Editor:** Shows the `index.html` file with HTML code. A red box highlights a section of buttons with `data-id` attributes.
- Browser Preview:** Displays the website interface for "NT 1200 FREE". It includes a sidebar with categories like "RECOMMEND", "ALL ITEMS", and "Men's Fashion". Below the sidebar are product cards for "0525 NEW!", "0511 last week", "0427", and "0420".
- DevTools Console:** Shows the JavaScript console output. A red box highlights the output for "shopId all", which lists various product categories and their details.

做按鈕監聽，按下按鈕事件發生時觸發被監聽的物件，可利用 `btn` 做出篩選動作，選擇想要的 item

The screenshot shows the development environment with the following components:

- Code Editor:** Shows the `app_40.js` file with JavaScript code. A red box highlights the event listener for the "shopBtns" array.
- Browser Preview:** Displays the website interface for "NT 1200 FREE SHIPPING". It includes a sidebar with categories like "ALL ITEMS", "MADE IN KOREA", and "RECOMMEND". Below the sidebar are product cards for "052519 Running Sneaker NT.200" and other items.
- DevTools Console:** Shows the JavaScript console output. A red box highlights the output for "shopId all", which lists various product categories and their details.

完成以及未完成：

Done

PER

NEW ARRIVALS ALL ITEMS MADE IN KOREA RECOMMEND Search

現貨不用等
本週活動
新品9折優惠
指定商品88折
限時特價
ALL ITEMS
All
Men's Fashion
Women's Fashion
Bags & Shoes
Jewlary & Watches
Computers
Phone & Tablets
Home & Furniture
Tools & Hardware
每週新品
0525 NEW!
0511 Last Week
0427
0420

End of May

F

商品編號 052519
Special Cotton Shirt For Men
N.T. 15

End of May

F

商品編號 052519
High Quality Men Distress Skinny Blue Jeans
N.T. 90

End of May

F

商品編號 052519
Cotton O Neck Mens Clothing T Shirts
N.T. 30

End of May

F

End of May

F

End of May

F

PER

NEW ARRIVALS ALL ITEMS MADE IN KOREA RECOMMEND Search

現貨不用等
本週活動
新品9折優惠
指定商品88折
限時特價
ALL ITEMS
All
Men's Fashion
Women's Fashion
Bags & Shoes
Jewlary & Watches
Computers
Phone & Tablets
Home & Furniture
Tools & Hardware
每週新品
0525 NEW!
0511 Last Week
0427
0420

End of May

F

商品編號 052519
High Quality Men Distress Skinny Blue Jeans
N.T. 90

End of May

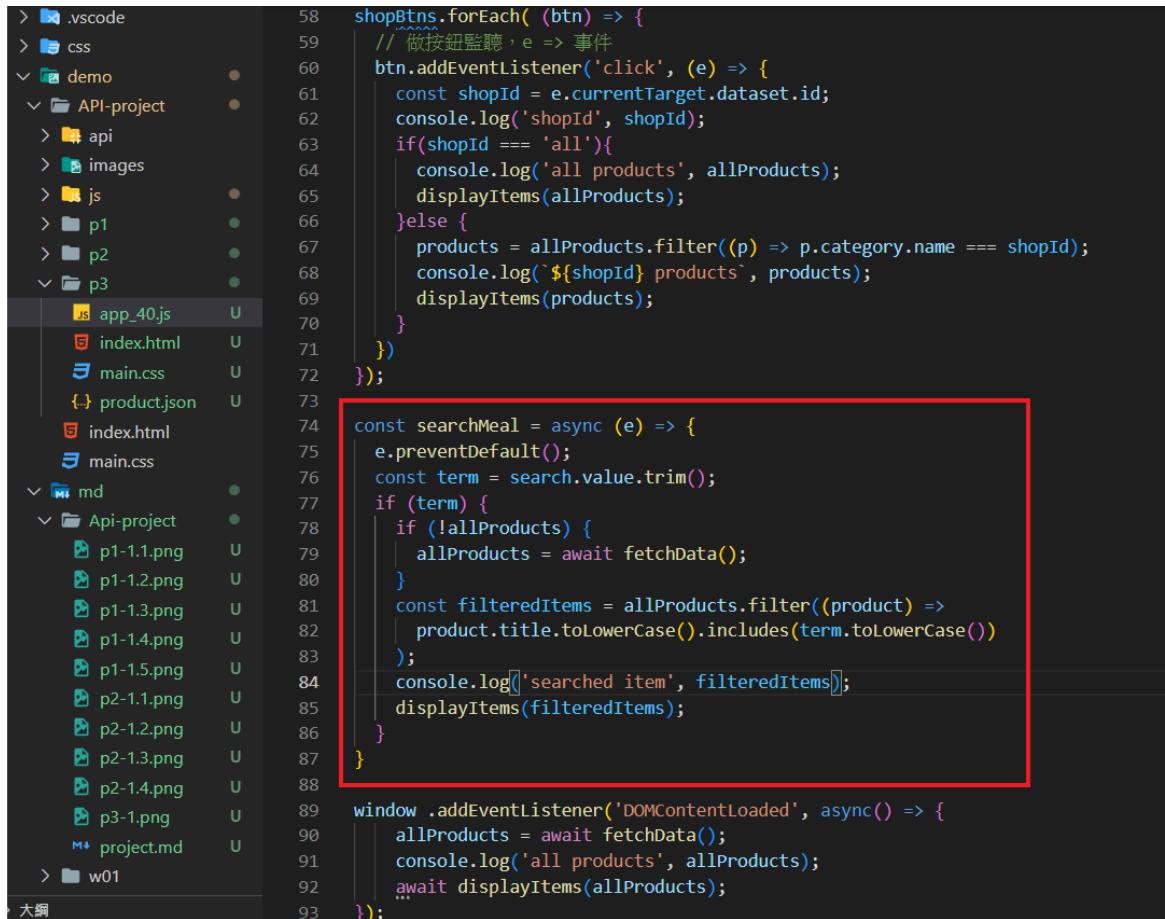
F

商品編號 052519
Cotton O Neck Mens Clothing T Shirts
N.T. 30

P3: Show products by search term

實作過程(一樣使用 Store rest API)：

參考了 w16 meal-finder，因老師是用 fetch 抓取 API 網址，但因 Store rest API 原本的 json 沒有圖片檔，所以使用自己的圖片檔加入 json，過程中使用了老師的方法，以及匯集前幾週的 local json 端做法試了很多次也無法抓取到資料最後是參考了網路資料所做出來的結果。



The screenshot shows a file explorer on the left and a code editor on the right. The file explorer displays a project structure with folders like .vscode, css, demo, API-project, js, images, p1, p2, and p3, along with files such as app_40.js, index.html, main.css, product.json, and index.html. The code editor contains a JavaScript file with code related to handling shop buttons and performing a search based on a term input.

```
shopBtns.forEach( (btn) => {
  // 做按鈕監聽，e => 事件
  btn.addEventListener('click', (e) => {
    const shopId = e.currentTarget.dataset.id;
    console.log(`shopId`, shopId);
    if(shopId === 'all'){
      console.log(`all products`, allProducts);
      displayItems(allProducts);
    }else {
      products = allProducts.filter((p) => p.category.name === shopId);
      console.log(`#${shopId} products`, products);
      displayItems(products);
    }
  });
}

const searchMeal = async (e) => {
  e.preventDefault();
  const term = search.value.trim();
  if (term) {
    if (!allProducts) {
      allProducts = await fetchData();
    }
    const filteredItems = allProducts.filter((product) =>
      product.title.toLowerCase().includes(term.toLowerCase())
    );
    console.log(`searched item`, filteredItems);
    displayItems(filteredItems);
  }
}

window.addEventListener('DOMContentLoaded', async() => {
  allProducts = await fetchData();
  console.log(`all products`, allProducts);
  await displayItems(allProducts);
});
```

在前端頁面的部分因為是用上學期只運用 HTML、CSS 所做出來的成品，在搜尋圖示的部分從原本只是 icon 變成 button 且多了移過去有手(cursor: pointer;)的部分，讓整個網頁變得更加精緻、逼真。而 search 文字的部分從原本的只是文字加底線變成真的可以 input type 去做搜索。

NT.1200 FREE SHIPPING



NEW ARRIVALS

ALL ITEMS

MADE IN KOREA

RECOMMEND



search



現貨不用等

本週活動

新品9折優惠

指定商品88折

限時特價

ALL ITEMS

All

Men's Fashion

Women's Fashion

Bags & Shoes

Jewlary & Watches

Computers

Phone & Tablets

Home & Furniture

Tools & Hardware

每週新品



F

商品編號 052519
Special Cotton Shirt For Men
NT.15



F

商品編號 052519
High Quality Men Distress Skinny Blue Jeans
NT. 90



F

商品編號 052519
Cotton O Neck Mens Clothing T Shirts
NT. 30



NEW ARRIVALS

ALL ITEMS

MADE IN KOREA

RECOMMEND



Search



In Period



現貨不用等

本週活動

新品9折優惠

指定商品88折

限時特價

ALL ITEMS

All

Men's Fashion

Women's Fashion

Bags & Shoes

Jewlary & Watches

Computers

Phone & Tablets

Home & Furniture

Tools & Hardware

每週新品



F

商品編號 052519
Special Cotton Shirt For Men
NT. 15



F

商品編號 052519
High Quality Men Distress Skinny Blue Jeans
NT. 90



F

商品編號 052519
Cotton O Neck Mens Clothing T Shirts
NT. 30



完成以及未完成：

Done

127.0.0.1:5502/demo/API-project/p3/index.html

NT.1200 FREE SHIPPING

NEW ARRIVALS ALL ITEMS MADE IN KOREA RECOMMEND   

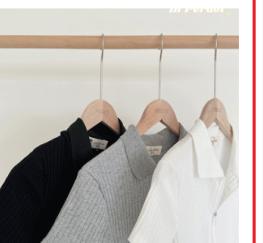
現貨不用等
本週活動
新品9折優惠
指定商品88折
限時特價

ALL ITEMS

All
Men's Fashion
Women's Fashion
Bags & Shoes
Jewelry & Watches
Computers
Phone & Tablets
Home & Furniture
Tools & Hardware
每週新品
0525 NEW!
0511 Last Week
0427
0420
0330
0310


商品編號 052519
Special Cotton Shirt For Men
NT. 15


商品編號 052519
Cotton O Neck Mens Clothing T Shirts
NT. 30


商品編號 052519
Cotton Pullover Embroidery Sweatshirt
Women
NT. 100

DevTools is now available in Chinese!
Always match Chrome's language
Switch DevTools to Chinese
Don't show again

Console ↗ 1 hidden

Filter Default levels ▾

1 Issue:  1

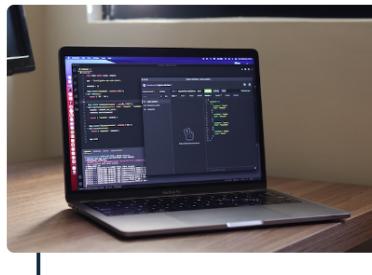
Unchecked runtime.lastError: The message port closed before a response was received.

fetch data app_40.js:22
(20) [{} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {}]
all products app_40.js:91
(20) [{} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {} , {}]
searched item app_40.js:84
▼ [{}]
 ▶ 0: {_id: '61ab420c0f34753bcdfa787', title: '\$'...}
 length: 1
 [[Prototype]]: Array(0)
searched item app_40.js:84
▼ [{}]
 ▶ 0: {_id: '61ab420c0f34753bcdfa787', title: '\$'...}
 1: {_id: '61ab42790f34753bcdfa787', title: '\$'...}
 2: {_id: '61ab42d0f34753bcdfa79e', title: '\$'...}
 length: 3
 [[Prototype]]: Array(0)

下午10:20
2023/6/10

心得甘苦談

127.0.0.1:5502/demo/API-project/p4/portfolio/index.html



從一開始知道 project 的題目，到找 API 的過程其實花了一蠻長的時間，因還未太過了解 API 是什麼，以及如何應用。但當下已經明確知道自己主題的方向是什麼(服飾商品的商店)，所以相對來說也較有一個明確的方向可以去找 API。

在找到 API 之後又是一大難題，因為不知道所選的 API 能否套用在自己設計的前端網頁上，結果剛好我所選的



從一開始知道 project 的題目，到找 API 的過程其實花了蠻長的時間，因還未太過了解 API 是什麼，以及如何應用。但當下已經明確知道自己主題的方向是什麼(服飾商品的商店)，所以相對來說也較有一個明確的方向可以去找 API 。

在找到 API 之後又是一大難題，因為不知道所選的 API 能否套用在自己設計的前端網頁上，結果剛好我所選的 API 沒有自帶圖片，所以無法完全套用 API 的 url，必須使用 local json 去抓資料，而馬上出現了一個問題就是如果使用 local 端的圖片無法隨著 P2 所做的篩選所變換圖片，只能固定出現前幾張照片，最後求救於助教才得以完美解決(將圖片檔直接寫入 json)。

在那之後在 P3 的搜尋部分又是一大挑戰。因為圖片問題無法像老師 w16 週所做的 meal-finder 一樣利用 fetch 抓取 API url，依舊只能用 local 端去抓資料，這也是我在做這次的 project 中覺得最困難的地方，因為沒有範本可以參考，利用前幾週上課內容，自己也試了很多方式都無果，最後只能一直在網路上找資料，查詢如何讓 js 連接 local 端內容而做出搜索動作，最後也終於成功做出搜尋功能。

在這當中因為有利用上學期所做的檔案去做，所以可以更明顯的看出這學期多學了非常多的內容，且與真正的網頁越來越像，每次做 project 都可以更了解上課所學內容，因為可以真正理解後派上用場，這才是上這堂課覺得最大的收穫。