

w10-w12 說明

專案目標：

- 練習從前端操作資料的 CRUD 功能。
- 熟悉 Supabase 的操作，包括資料庫管理與 API 呼叫。

資料存儲：使用 **MongoDB**、**local JSON** 和 **Supabase** 作為三種資料來源。

資料傳遞：透過後端提供的 **RESTful API** 進行資料操作。

前端操作：

- 使用 `useMutation` 完成資料的新增、更新與刪除。
- 透過三個對應的路由操作不同來源的資料。
- 即時顯示操作結果。
- 透過 Supabase 提供的 API 進行資料查詢與操作，並學習其存取機制。

後端測試：可使用 **Postman** 進行 API 測試。

w10-w12

=> 新增路由 & navbar component

The screenshot shows a development environment with two code editors and a browser preview.

Code Editors:

- App_xx.jsx:** Shows a router configuration with three routes: '/', 'midBlog_xx', and 'demoGetBlog_xx'. The '/' route points to `<HomePage_xx/>`. The 'midBlog_xx' route points to `<Mid1SupaBlog_xx/>`. The 'demoGetBlog_xx' route points to `<SupaGetBlog_xx/>`.
- HomeLayout_90.jsx:** Shows a component definition for `HomeLayout_90`. It imports `{ Outlet } from 'react-router'`. The component returns a `<h1>HomeLayout</h1>` and an `<Outlet>` element.

Terminal:

```
VITE v5.1.5 ready in 291 ms
→ Local: http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
上午9:27:46 [vite] hmr update /src/pages/HomeLayout_90.jsx
上午9:30:28 [vite] hmr update /src/App_xx.jsx
```

Browser Preview:

The browser window displays the URL `localhost:5173/midBlog_xx`. The page title is "HomeLayout". The content includes a heading "Mid1: Get Blogs Using React Query" and a sub-heading "Hsingtai Chung, 123456789". Below this are two blog posts:

- Sun Rise From The Mountain**: Includes a sunrise photo, a "TRAVEL" tag, and "Read More" and "Edit" buttons.
- Serene Lake With Trees**: Includes a lake photo, a "TRAVEL" tag, and "Read More" and "Edit" buttons.

The screenshot shows a developer's environment with two panes. The left pane is a code editor displaying a component named `Navbar_90.jsx`. The code includes logic for a dropdown menu and a mega menu. A red box highlights the dropdown menu section. The right pane is a browser window showing a live preview of a website at `localhost:5173/demoGetBlog_xx`. The site features a header with a logo and navigation links. A sidebar on the right displays a dropdown menu with items: "demo: SupagetBlog", "mid1: SupaBlog", "mid2: NodeBlog", and "Service 4". Below the sidebar are three cards: one for coffee (LIFESTYLE), one for travel to Paris (TRAVEL), and one for coffee friendship (LIFESTYLE). Each card has a "Read More" link.

```
client_90 > src > components > Navbar_90.jsx > Navbar_90
  4   0 = () => {
  5
  6     <div>
  7       <ul>
  8         <li> ...
  9       </ul>
 10      <ul>
 11        <li> ...
 12      </ul>
 13    </div>
 14    <div>
 15      <ul>
 16        <li> ...
 17        <li> ...
 18        <li> ...
 19        <li> ...
 20      </ul>
 21    </div>
 22
 23    <div>
 24      <ul>
 25        <li> ...
 26        <li> ...
 27        <li> ...
 28        <li> ...
 29        <li> ...
 30        <li> ...
 31        <li> ...
 32        <li> ...
 33        <li> ...
 34        <li> ...
 35        <li> ...
 36        <li> ...
 37        <li> ...
 38      </ul>
 39    </div>
 40  </div>
 41 </li>
 42 <li> ...
 43   <ul>
 44     <li> ...
 45     <li> ...
 46     <li> ...
 47     <li> ...
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 83     <li> ...
 84     <li> ...
 85     <li> ...
 86     <li> ...
 87     <li> ...
 88     <li> ...
 89     <li> ...
 90   </ul>
 91 </li>
 92 <li> ...
 93   <ul>
 94     <li> ...
 95     <li> ...
 96     <li> ...
 97     <li> ...
 98     <li> ...
 99     <li> ...
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 103    <li> ...
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 105    <li> ...
 106    <li> ...
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 108    <li> ...
 109    <li> ...
 110    <li> ...
 111    <li> ...
 112    <li> ...
 113    <li> ...
 114    <li> ...
 115    <li> ...
 116    <li> ...
 117    <li> ...
 118    <li> ...
 119    <li> ...
 120    <li> ...
 121    <li> ...
 122    <li> ...
 123    <li> ...
 124    <li> ...
 125    <li> ...
 126    <li> ...
 127  </ul>
 128</div>
```

The screenshot shows a multi-tab interface in VS Code. The tabs include:

- App.jsx (active tab):

```
client_90 > src > App.jsx > router > children > path
12 const queryClient = new QueryClient({
13   });
14
15 const router = createBrowserRouter([
16   {
17     path: '/',
18     element: <HomeLayout_90/>,
19     children: [
20       {
21         index: true,
22         element: <HomePage_xx/>
23       },
24       {
25         path: 'midBlog_xx',
26         element: <MidBlogPage_xx/>
27       }
28     ]
29   }
30 ])
```
- index.html
- Navbar_90.jsx
- HomeLayout_90.jsx
- Navbar_90.js

Code snippets are highlighted with red boxes:

- In App.jsx: The entire code block under the `router` definition.
- In Navbar_90.jsx: The `Wrapper` component definition.
- In HomeLayout_90.jsx: The `<Navbar_90/>` component call.
- In Navbar_90.js: The `Wrapper` component definition.

=> 使用 Mongodb & 後端設定

Screenshot of VS Code showing three files: `server_xx.js`, `app.js`, and `blogs.js`. The code in `app.js` and `blogs.js` is highlighted with red boxes.

```

    // 在 app.js 中
    const port = process.env.PORT;
    app.listen(port, () => {
      console.log(`App running on port ${port}`);
    });

    // 在 blogs.js 中
    router.get('/', async(req, res) => {
      const blogs = await Blog.find();
      res.json(blogs);
    })
  
```

Terminal output:

```

    sheng@LAPTOP-NJCRK40 MINGW64 ~/1112-wp2-2N_90 (main)
    $ cd demo/w12_mongo_90/server_90/
    sheng@LAPTOP-NJCRK40 MINGW64 ~/1112-wp2-2N_90/demo/w12_mongo_90/server_90 (main)
    $ node server_xx.js
    App running on port 5000
    MongoDB Connected
    MongoDB Server connected
  
```

=> 前端畫面

Screenshot of a web browser showing a blog list page. A DevTools panel is open on the right side.

Page Title: Mid2: Get Blogs Using React

DevTools Panel:

- Console tab shows logs related to React DevTools and blog data.
- Logs include:
 - chunk-TXPG7S17.js?v=2cde09f4:9
 - Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>
 - blog data undefined
 - blog data undefined
 - blog data (9) [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}]
 - blog data (9) [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}]

=> 新增一筆資料 & code

localhost:5173/mid2logLocal_xx

LIFESTYLE ☕ Coffee Make You Feel Good
Read More Edit Del

LIFESTYLE ☕ Coffee Make You Calm
Read More Edit Del

TRAVEL 🌍 Rocks Of Queen Head In Yehliu, Taiwan
Read More Edit Del

LIFESTYLE ☕ Coffee Brings Friendship
Read More Edit Del

LIFESTYLE ☕
林泓君 207410290
Read More Edit Del

Add Blog Clear All Load All

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

Console

```
Sending data: Mid2NodeBlogLocal_xx.jsx:33
  {img: '/images/my-1.jpg', remote_img: '', category: 'Lifestyle', title: '林泓君 207410290', desc: 'Mid Exam -- React'}
```

```
blog data: Mid2NodeBlogLocal_xx.jsx:27
  {img: '/images/my-1.jpg', remote_img: '', category: 'Lifestyle', title: '林泓君 207410290', desc: 'Mid Exam -- React'}
```

```
blog data: Mid2NodeBlogLocal_xx.jsx:27
  {img: '/images/my-1.jpg', remote_img: '', category: 'Lifestyle', title: '林泓君 207410290', desc: 'Mid Exam -- React'}
```

```
axios new data: Mid2NodeBlogLocal_xx.jsx:42
  {img: '/images/my-1.jpg', remote_img: '', category: 'Lifestyle', title: '林泓君 207410290', desc: 'Mid Exam -- React'}
```

```
blog data: Mid2NodeBlogLocal_xx.jsx:27
  {img: '/images/my-1.jpg', remote_img: '', category: 'Lifestyle', title: '林泓君 207410290', desc: 'Mid Exam -- React'}
```

```
blog data: Mid2NodeBlogLocal_xx.jsx:27
  {img: '/images/my-1.jpg', remote_img: '', category: 'Lifestyle', title: '林泓君 207410290', desc: 'Mid Exam -- React'}
```

```
blog data: Mid2NodeBlogLocal_xx.jsx:27
  {img: '/images/my-1.jpg', remote_img: '', category: 'Lifestyle', title: '林泓君 207410290', desc: 'Mid Exam -- React'}
```

```
blog data: Mid2NodeBlogLocal_xx.jsx:27
  {img: '/images/my-1.jpg', remote_img: '', category: 'Lifestyle', title: '林泓君 207410290', desc: 'Mid Exam -- React'}
```

File Edit Selection View Go Run Terminal Help

Mid2NodeBlogLocal_xx.jsx | Mid1SupaBlog_xx.jsx

```
demo > w12_mongo_90 > client_90 > src > pages > mid1_xx > Mid2NodeBlogLocal_xx.jsx > Mid2NodeBlogLocal_xx.jsx
```

```
const Mid2NodeBlogLocal_xx = () => {
  // Create
  const { mutate: addBlog } = useMutation({
    mutationFn: async ({ img, remote_img, category, title, desc }) => {
      try {
        console.log('Sending data:', { img, remote_img, category, title, desc })
        const { data } = await axios.post('http://localhost:5000/api/blogs',
          {
            img,
            remote_img,
            category,
            title,
            desc
          })
        console.log('axios new data', data)
      } catch (error) {
        console.log(error)
      }
    },
    onSuccess: () => {
      queryClient.invalidateQueries({
        queryKey: [ 'blogs_xx' ]
      })
      toast.success('blog added, will refresh')
    }
  })
  return (
    <div>
      <h1>Mid2NodeBlogLocal_xx</h1>
      <button>Add Blog</button>
      <button>Clear All</button>
      <button>Load All</button>
    </div>
  )
}

Mid2NodeBlogLocal_xx.jsx
```

```
const Mid2NodeBlogLocal_xx = () => {
  return (
    <div>
      <h1>Mid2NodeBlogLocal_xx</h1>
      <button>Add Blog</button>
      <button>Clear All</button>
      <button>Load All</button>
    </div>
  )
}

Mid2NodeBlogLocal_xx.jsx
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
e_modules@babel\parser\lib\index.js:13905:10)
上午7:17:17 [vite] hmr update /src/pages/BlogForm.jsx
上午7:18:10 [vite] hmr update /src/pages/mid1_xx/Mid1SupaBlog_xx.jsx
上午7:18:53 [vite] hmr update /src/pages/mid1_xx/Mid1SupaBlog_xx.jsx (x2)
上午7:19:30 [vite] hmr update /src/pages/mid1_xx/Mid1SupaBlog_xx.jsx (x3)
上午8:09:09 [vite] hmr update /src/pages/mid1_xx/Mid1SupaBlog_xx.jsx (x4)
上午8:09:35 [vite] hmr update /src/pages/mid1_xx/Mid2NodeBlogLocal_xx.jsx
上午8:10:09 [vite] hmr update /src/components/Navbar_90.jsx
```

Ln 90, Col 4 Spaces: 2 UFT-8 CRLF {} JavaScript JSX ⏪ Go Live ⏪ Go Live

=> 使用Supabase

localhost:5173/midBlog_xx

```

import { useState, useEffect } from 'react';
import { ToastContainer, toast } from 'react-toastify';
import { supabase } from '../..../db/client/supabase';
import { useQuery, useMutation, useQueryClient } from '@tanstack/react-query';

import Wrapper from '../../../../../assets/wrappers/BlogPage_xx';
import BlogForm from '../BlogForm'; // 引入表單組件

import { LiaMugHotSolid, LiaTheRedYeti } from 'react-icons/lia';
import { CiGlobe } from 'react-icons/ci';

const Mid1SupaBlog_xx = () => {
  const [name, setName] = useState('林泓君');
  const [id, setId] = useState(207410290);
  const [selectedBlog, setSelectedBlog] = useState(null);
  const queryClient = useQueryClient();

  // Read
  const { data, isLoading, isError, error } = useQuery([
    queryKey: ['blogs_xx'],
    queryFn: async () => {
      try {
        let { data, error } = await supabase.from('mid2_blog_90').select('*');
        console.log('blogs', data);
        return data;
      } catch (error) {
        console.error('Error fetching data:', error.message);
        throw new Error(error.message);
        // console.log(error);
      }
    },
  ]);
}

```

=> 新增一筆資料 & code

localhost:5173/midBlog_xx

DevTools is now available in Chinese!

Always match Chrome's language Switch DevTools to Chinese X

Don't show again

Console

```

blogs
  ▶ (?) [{...}, {...}, {...}, {...}, {...}, {...}, {...}]
blogs
  ▶ (6) [{...}, {...}, {...}, {...}, {...}, {...}]
blogs
  ▶ (7) [{...}, {...}, {...}, {...}, {...}, {...}, {...}]

```

```

// Create
const [ mutate, addBlog ] = useMutation({
  mutationFn: async ({ id, title, descrip, category, img, remote_url }) =>
    try {
      const { data, error } = await supabase
        .from('mid2_blog_90')
        .insert([{ id, title, descrip, category, img, remote_url }])
        .select();
    } catch (error) {
      console.log(error);
    },
  onSuccess: () => {
    queryClient.invalidateQueries({
      queryKey: ['blogs_xx'],
    });
    toast.success('blog added, will refresh');
  },
  onError: (error) => {
    toast.error(error.response.data);
  },
});

```

```

12  const Mid1SupaBlog_xx = () => {
13    const [ mutate, addBlog ] = useMutation({
14      mutationFn: async ({ id, title, descrip, category, img, remote_url }) =>
15        try {
16          const { data, error } = await supabase
17            .from('mid2_blog_90')
18            .insert([{ id, title, descrip, category, img, remote_url }])
19            .select();
20        } catch (error) {
21          console.error(`Error fetching data: ${error.message}`);
22          throw new Error(error.message);
23        }
24      },
25    );
26
27    // Create
28    const [ mutate, addBlog ] = useMutation({
29      mutationFn: async ({ id, title, descrip, category, img, remote_url }) =>
30        try {
31          const { data, error } = await supabase
32            .from('mid2_blog_90')
33            .insert([{ id, title, descrip, category, img, remote_url }])
34            .select();
35        } catch (error) {
36          console.log(error);
37        },
38      },
39    );
40
41    // Load All
42    const blogs = [
43      ...queryClient.getQueryData(['blogs_xx']) || [],
44    ];
45
46    return (
47      <div>
48        <h1>Blogs</h1>
49        <div>
50          <table>
51            <thead>
52              <tr>
53                <th>Title</th>
54                <th>Category</th>
55                <th>Image</th>
56              </tr>
57            </thead>
58            <tbody>
59              {blogs.map((blog) => (
60                <tr key={blog.id}>
61                  <td>{blog.title}</td>
62                  <td>{blog.category}</td>
63                  <td><img alt={blog.img} /></td>
64                </tr>
65              ))}
66            </tbody>
67          </table>
68        </div>
69        <div>
70          <button>Add Blog</button>
71          <button>Clear All</button>
72        </div>
73      </div>
74    );
75  }
76
77  export default Mid1SupaBlog_xx;

```

Table Editor

Sky001's Org Free / tku_207410290 Connect Enable branching

schema: public

+ New table

Search tables...

	id	title	descrip	category	img
	1	Seven Reasons Why Coffee Is Awesome	Lorem ipsum dolor sit amet consectetur a	lifestyle	/images/photo-1.jpg
	2	Travel To Paris	Lorem ipsum dolor sit amet consectetur a	travel	/images/photo-2.jpg
	3	Coffee Brings Friendship	Lorem ipsum dolor sit amet consectetur a	lifestyle	/images/photo-3.jpg
	4	Coffee Make You Feel Good	Lorem ipsum dolor sit amet consectetur a	lifestyle	/images/photo-4.jpg
	5	Coffee Make You Calm	Lorem ipsum dolor sit amet consectetur a	lifestyle	/images/photo-5.jpg
	6	Coffee Make You Calm	Lorem ipsum dolor sit amet consectetur a	lifestyle	/images/photo-6.jpg
	10	htchung 123456789	Lorem ipsum dolor sit amet consectetur a	lifestyle	/images/my-1.jpg

blog_1n_90

blog_90

blog_f2_90

bookings

bookings_90

cabins

cabins_90

card2_90

cart_90

company_90

guests

guests_90

menu_90

mid2_blog_90

product_90