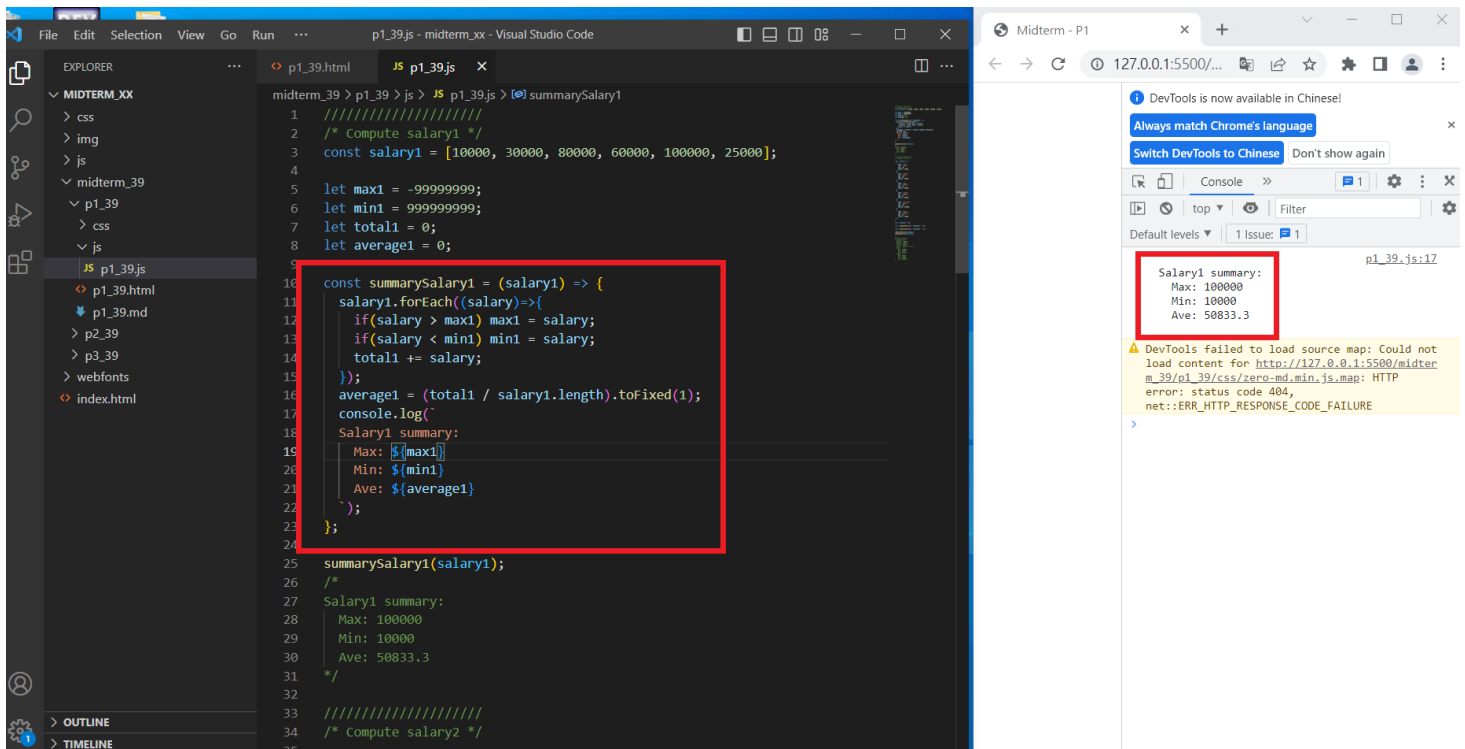


## P1-1: Compute Salary1



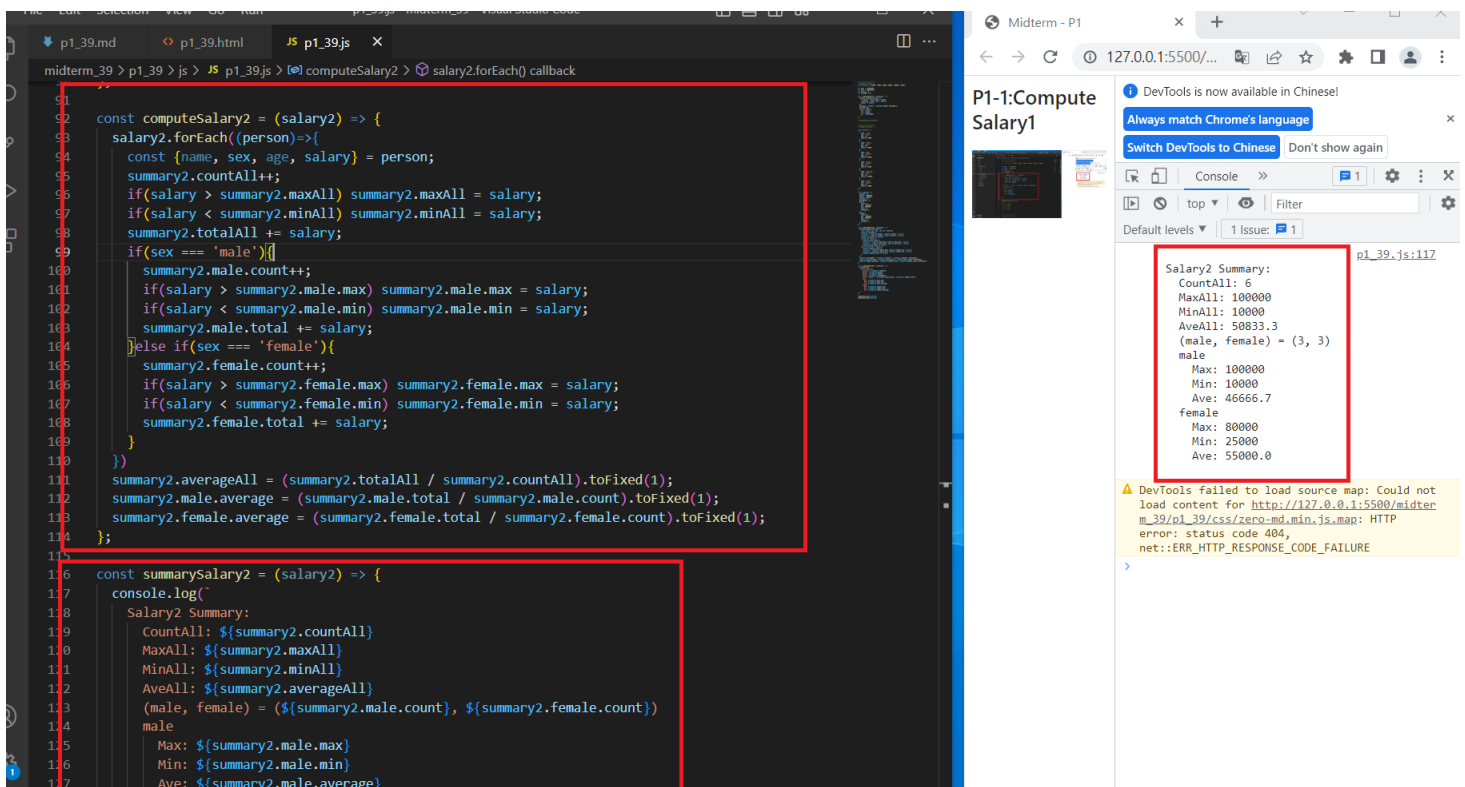
The screenshot shows the VS Code editor with the file `p1_39.js` open. The code defines a function `summarySalary1` that takes an array of salaries and returns an object with `Max`, `Min`, and `Ave` properties. The function is called with the array `[10000, 30000, 80000, 60000, 100000, 25000]`. The Chrome DevTools console shows the output of the function call, which is a summary object.

```
const summarySalary1 = (salary1) => {
  salary1.forEach((salary) => {
    if(salary > max1) max1 = salary;
    if(salary < min1) min1 = salary;
    total1 += salary;
  });
  average1 = (total1 / salary1.length).toFixed(1);
  console.log(`
Salary1 summary:
Max: ${max1}
Min: ${min1}
Ave: ${average1}
`);
};

summarySalary1(salary1);
```

Salary1 summary:  
Max: 100000  
Min: 10000  
Ave: 50833.3

## p1-2: Compute Salary2



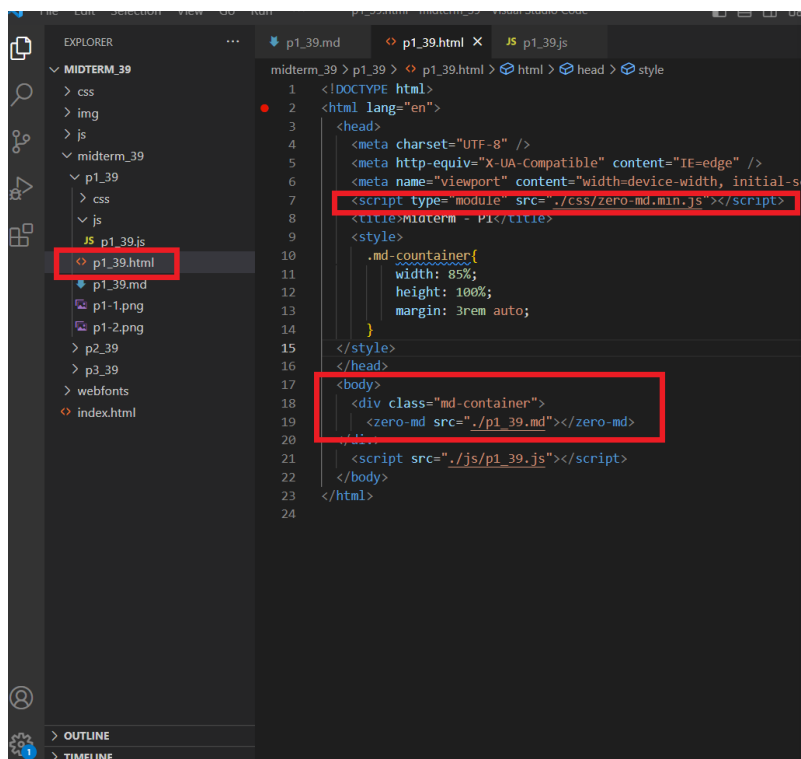
The screenshot shows the VS Code editor with the file `p1_39.js` open. The code defines a function `computeSalary2` that takes an array of objects (each with `name`, `sex`, `age`, and `salary`) and returns a summary object. The function is called with the array `salary2`. The Chrome DevTools console shows the output of the function call, which is a summary object.

```
const computeSalary2 = (salary2) => {
  salary2.forEach((person) => {
    const {name, sex, age, salary} = person;
    summary2.countAll++;
    if(salary > summary2.maxAll) summary2.maxAll = salary;
    if(salary < summary2.minAll) summary2.minAll = salary;
    summary2.totalAll += salary;
    if(sex === 'male'){
      summary2.male.count++;
      if(salary > summary2.male.max) summary2.male.max = salary;
      if(salary < summary2.male.min) summary2.male.min = salary;
      summary2.male.total += salary;
    } else if(sex === 'female'){
      summary2.female.count++;
      if(salary > summary2.female.max) summary2.female.max = salary;
      if(salary < summary2.female.min) summary2.female.min = salary;
      summary2.female.total += salary;
    }
  });
  summary2.averageAll = (summary2.totalAll / summary2.countAll).toFixed(1);
  summary2.male.average = (summary2.male.total / summary2.male.count).toFixed(1);
  summary2.female.average = (summary2.female.total / summary2.female.count).toFixed(1);
};

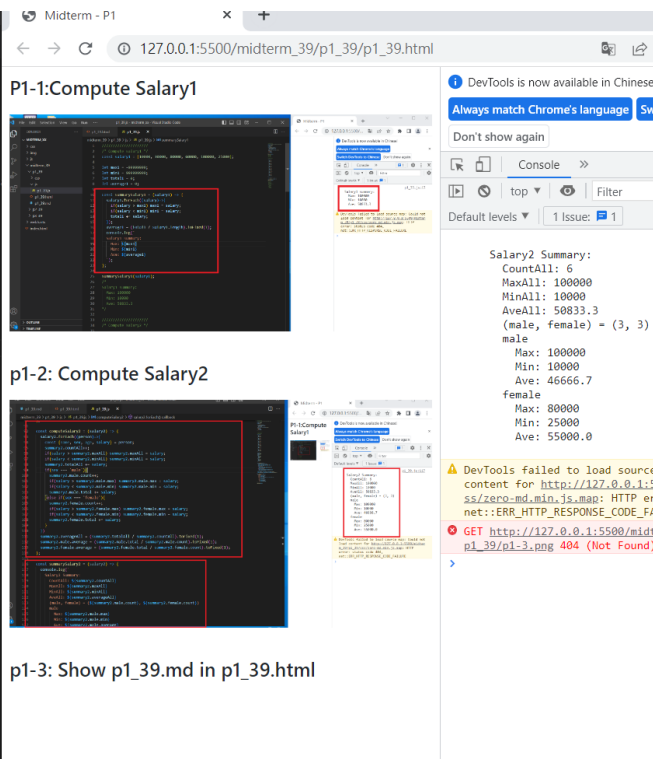
const summarySalary2 = (salary2) => {
  console.log(`
Salary2 Summary:
CountAll: ${summary2.countAll}
MaxAll: ${summary2.maxAll}
MinAll: ${summary2.minAll}
AveAll: ${summary2.averageAll}
(male, female) = (${summary2.male.count}, ${summary2.female.count})
male
Max: ${summary2.male.max}
Min: ${summary2.male.min}
Ave: ${summary2.male.average}
`);
};
```

Salary2 Summary:  
CountAll: 6  
MaxAll: 100000  
MinAll: 10000  
AveAll: 50833.3  
(male, female) = (3, 3)  
male  
Max: 100000  
Min: 10000  
Ave: 46666.7  
female  
Max: 80000  
Min: 25000  
Ave: 55000.0

## p1-3: Show p1\_39.md in p1\_39.html



```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7     <script type="module" src="/css/zero-md.min.js"></script>
8     <title>Midterm - P1</title>
9   </head>
10  <body>
11    <div class="md-container">
12      <zero-md src="/p1_39.md"></zero-md>
13    </div>
14    <script src="/js/p1_39.js"></script>
15  </body>
16 </html>
```



P1-1: Compute Salary1

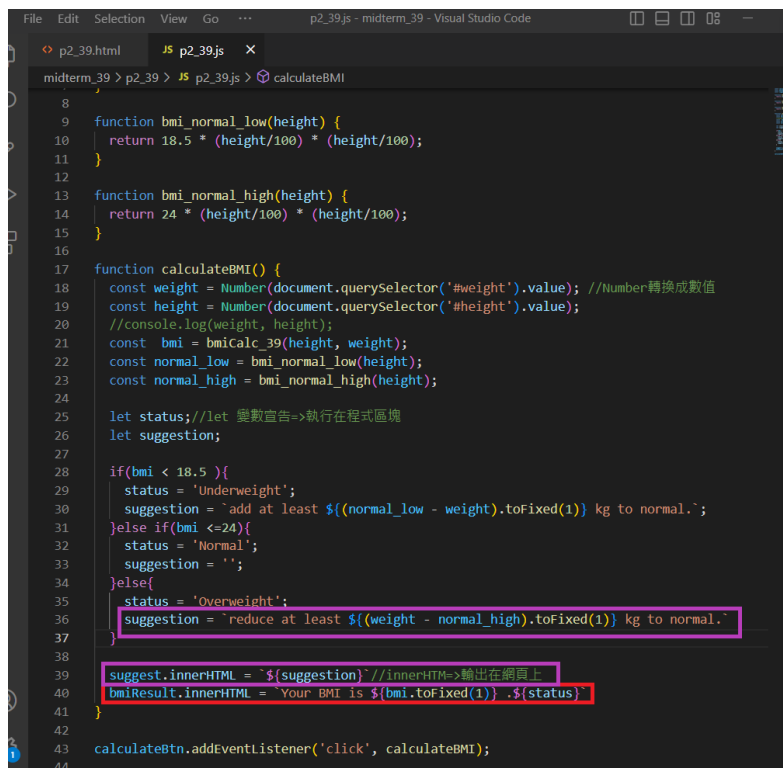
P1-2: Compute Salary2

P1-3: Show p1\_39.md in p1\_39.html

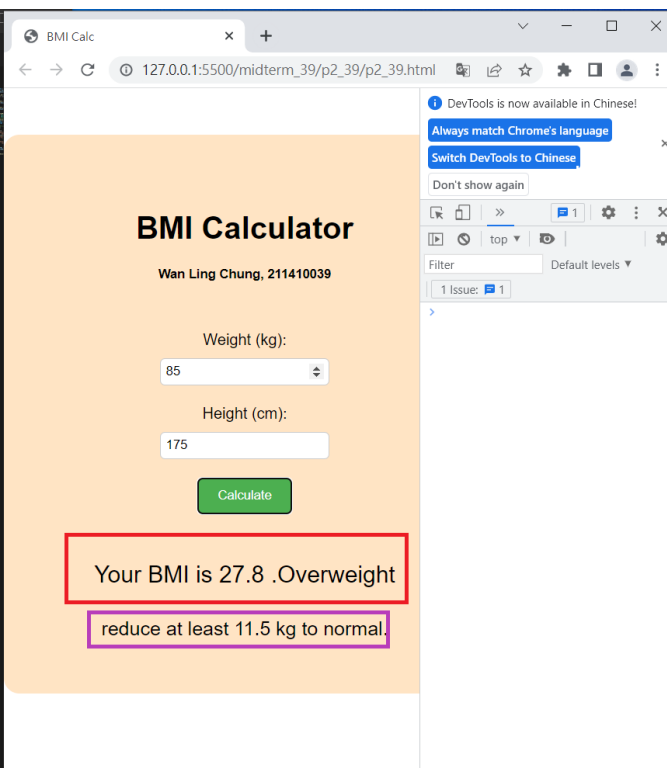
Salary2 Summary:

Category	Count	Max	Min	Ave
CountAll	6			
MaxAll	100000			
MinAll	10000			
AveAll	50833.3			
(male, female)	(3, 3)			
male		Max: 100000	Min: 10000	Ave: 46666.7
female		Max: 80000	Min: 25000	Ave: 55000.0

## P2: BMI Calculation



```
1 function bmi_normal_low(height) {
2   return 18.5 * (height/100) * (height/100);
3 }
4
5 function bmi_normal_high(height) {
6   return 24 * (height/100) * (height/100);
7 }
8
9 function calculateBMI() {
10  const weight = Number(document.querySelector("#weight").value); //Number轉換成數值
11  const height = Number(document.querySelector("#height").value);
12  //console.log(weight, height);
13  const bmi = bmiCalc_39(height, weight);
14  const normal_low = bmi_normal_low(height);
15  const normal_high = bmi_normal_high(height);
16
17  let status; //let 變數宣告=>執行在程式區塊
18  let suggestion;
19
20  if(bmi < 18.5){
21    status = 'Underweight';
22    suggestion = `add at least ${((normal_low - weight).toFixed(1))} kg to normal.`;
23  }else if(bmi <=24){
24    status = 'Normal';
25    suggestion = '';
26  }else{
27    status = 'Overweight';
28    suggestion = `reduce at least ${((weight - normal_high).toFixed(1))} kg to normal.`;
29  }
30
31  suggest.innerHTML = `${suggestion}` //innerHTML=>輸出在網頁上
32  bmiResult.innerHTML = `Your BMI is ${bmi.toFixed(1)} .${status}`
33 }
34
35 calculateBtn.addEventListener('click', calculateBMI);
```



BMI Calculator

Wan Ling Chung, 211410039

Weight (kg): 85

Height (cm): 175

Calculate

Your BMI is 27.8 .Overweight

reduce at least 11.5 kg to normal.

## P3: Fetch Products from json array

```
File Edit Selection View Go Run Terminal Help p3_39.js - midterm_39 - Visual Studio Code

EXPLORER
MIDTERM_39
  > css
  > img
  > js
    JS classdemo_39.js
    JS script_39.js
  > midterm_39
    > p1_39
    > p2_39
    > p3_39
      > css
      > images
      > js
        JS p3_39.js
        JS product_data.js
      > scss
        _global.scss
        p3_39.scss
      > p3_39.html
      > p3_theme.html
      > webfonts
      > index.html
  > OUTLINE

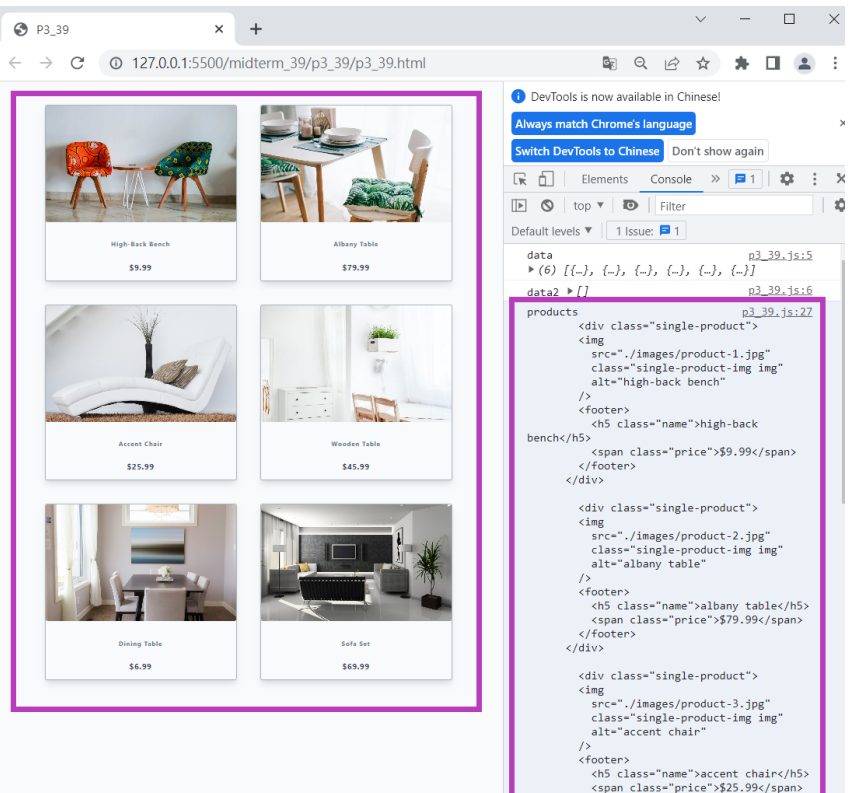
index.html
JS classdemo_39.js
JS p3_39.js
JS product_data.js

midterm_39 > p3_39 > js > JS p3_39.js > fetchData
1 import {data, data2} from './product_data.js'; //要寫.js, 只有一個不能加{}
2
3 const productContainer = document.querySelector('.products-container');
4

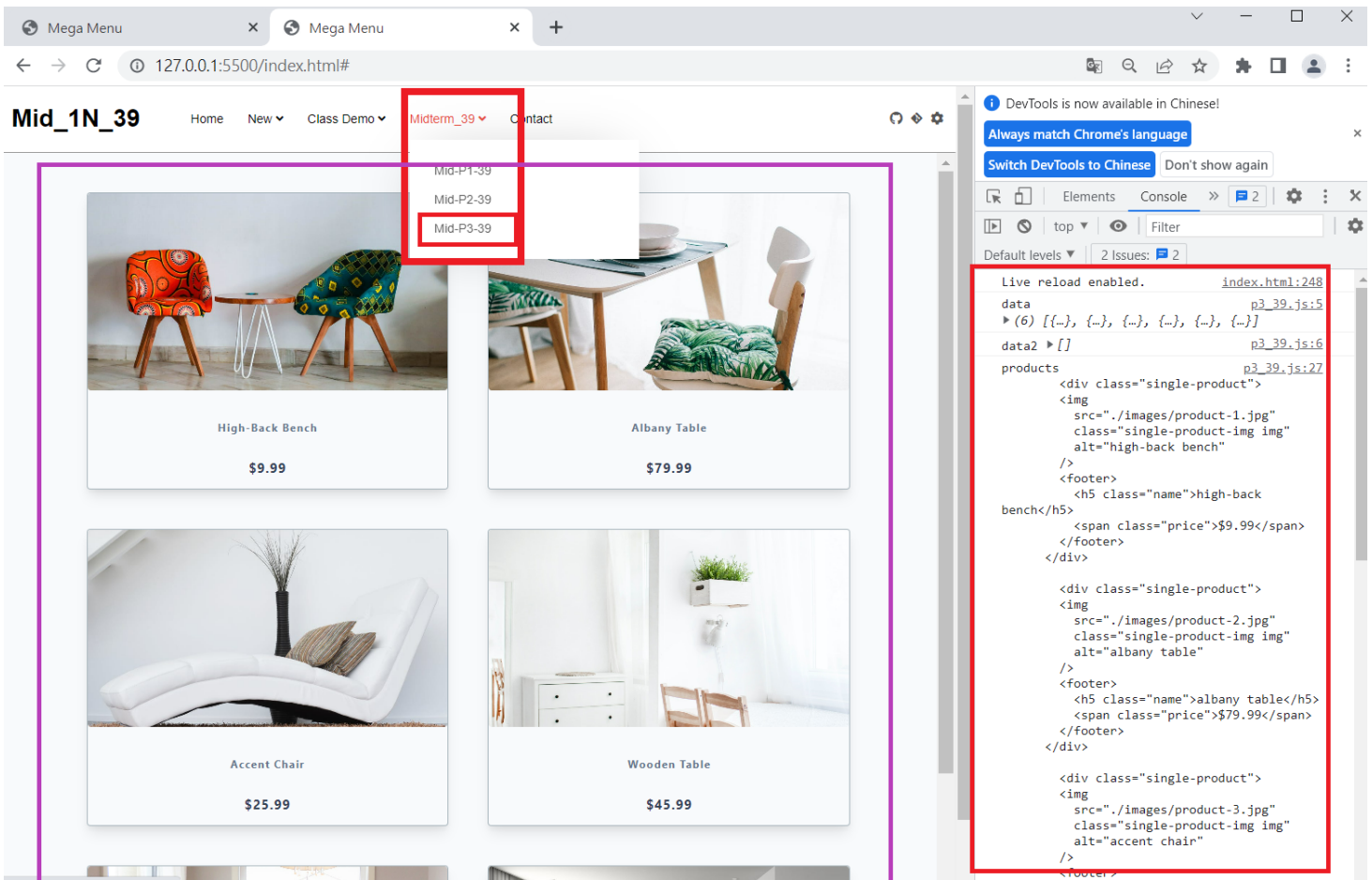
JS product_data.js
midterm_39 > p3_39 > js > JS product_data.js >
1 export const data = [
2   {
3     id:1,
4     img:'./images/product-1.jpg',
5     name: 'high-back bench',
6     price: 9.99
7   },
8   { ...
9   },
10  { ...
11  },
12  { ...
13  },
14  { ...
15  },
16  { ...
17  },
18  { ...
19  },
20  { ...
21  },
22  { ...
23  },
24  { ...
25  },
26  { ...
27  },
28  { ...
29  },
30  { ...
31  },
32  { ...
33  },
34  { ...
35  },
36  { ...
37  },
38  { ...
39  },
40  { ...
41  },
42  { ...
43  },
44  { ...
45  },
46  { ...
47  },
48  { ...
49  },
50  { ...
51  },
52  { ...
53  },
54  { ...
55  },
56  { ...
57  },
58  { ...
59  },
60  { ...
61  },
62  { ...
63  },
64  { ...
65  },
66  { ...
67  },
68  { ...
69  },
70  { ...
71  },
72  { ...
73  },
74  { ...
75  },
76  { ...
77  },
78  { ...
79  },
80  { ...
81  },
82  { ...
83  },
84  { ...
85  },
86  { ...
87  },
88  { ...
89  },
90  { ...
91  },
92  { ...
93  },
94  { ...
95  },
96  { ...
97  },
98  { ...
99  },
100 { ...
101 }
102 ]
103
104 export const data2 = []
105
106 //export default data;
```

```
p3_theme.html - midterm_39 - Visual Studio Code
JS product_data.js
JS p3_39.js
p3_theme.html

midterm_39 > p3_39 > js > JS p3_39.js > fetchData
1 import {data, data2} from './product_data.js'; //要寫.js, 只有一個不能
2
3 const productContainer = document.querySelector('.products-container');
4
5 console.log('data', data);
6 console.log('data2', data2);
7
8 const fetchData = (data)=>{
9   let products = data.map((item)=>{ //products是一個陣列 ...
10     // ...
11   }).join('');
12   console.log('products', products);
13   productContainer.innerHTML = products;
14 }
15
16 p3_theme.html
17
18 <div class="products-container">
19   <div class="single-product">
20     
25     <div class="single-product">
26       <div class="name">high-back bench</div>
27       <div class="price">$9.99</div>
28     </div>
29   </div>
30   <div class="single-product">
31     <div class="name">albany table</div>
32     <div class="price">$79.99</div>
33   </div>
34   <div class="single-product">
35     <div class="name">accent chair</div>
36     <div class="price">$25.99</div>
37   </div>
38   <div class="single-product">
39     <div class="name">wooden table</div>
40     <div class="price">$45.99</div>
41   </div>
42   <div class="single-product">
43     <div class="name">dining table</div>
44     <div class="price">$6.99</div>
45   </div>
46   <div class="single-product">
47     <div class="name">sofa set</div>
48     <div class="price">$69.99</div>
49   </div>
50 </div>
```



#### P4: Use menu to show P1, P2, P3

[illegible]

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-04-26"  
d949908 21141003901~ Thu Apr 27 22:01:12 2023 +0800 w11-midterm
```