

(30%) JavaScript 網頁設計 1N 期中上機考-2 -- 斷網考試

2024-4-18 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，情節嚴重者會送校。
2. iClass 上請繳交 mid21_xx.md, mid21_xx.pdf，還有壓縮檔 mid21_xx.zip 3 個檔案
3. 請直接將答案寫在 mid21_xx.md 上，老師實作的圖片放在 mid21_htc.pdf 上，請依照老師所給的圖片來實作並標註
4. 跟期中考相關的檔案及目錄名稱有 xx 時，必須要改成學號後 2 碼，沒有修改時，會視違犯情況扣分。
5. 每一張圖片要有機房左側背景，圖片上要有你的學號(或後兩碼)，圖片標註要跟老師所標註的類似。違者會依情節扣分。
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。

Your (Name, ID): (江宇鵬, 212410210)

Mid21 斷網題目 (30%)

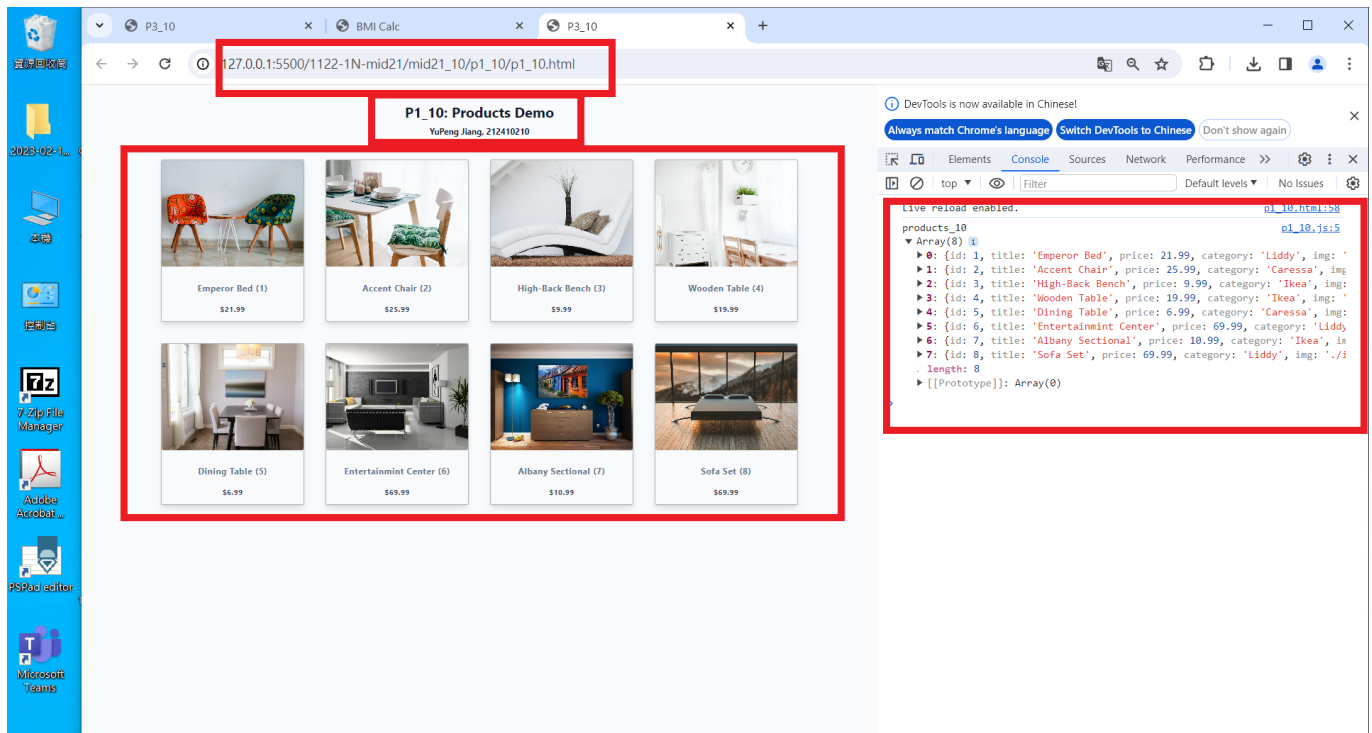
- P1 (10%): 10 分
- P2 (10%): 10 分
- P3 (10%): 10 分

總分: 30 分

(10%) P1: Products Demo -- 透過 JavaScript 來建構


請從 p1_data_xx.js 中之 all_products_xx 陣列產生 8 筆產品資料放入 products_xx 中。第 1 筆之 id 是你學號最後一碼，由此往下找 8 筆，如果學號最後一碼是 0 則從 id=10 產品開始，取得 10, 11, 12, 1, 2, 3, 4, 5，放入 products_xx 中。

記得，每一項產品名稱後面要顯示產品 id，如第 1 筆的 Albany Sectional (P7)，其中的 P7 就表示產品 id=7



Your Answer

=> Chrome 顯示，如上圖

 mid21-p1-2.png

=> js code

將 `p1_10.js` code 放入此

```
import { products_10, all_products_10 } from './p1_data_10.js';

const productContainer = document.querySelector('.products-container');

console.log('products_10', products_10);

const DisplayProducts = (products_10) => {
  let DisplayProducts = products_10
    .map((item) => {
      const { id, title, price, category, img } = item;
      return `
<div class="single-product">
  
  <footer>
    <h3 class="name">${title} (${id})</h3>
    <span class="price">${price}</span>
  </footer>
`
    })
    .join('');
}
```

```
        </div>
      </div>
    `;
  })
  .join('');
  productContainer.innerHTML = DisplayProducts;
};

document.addEventListener('DOMContentLoaded', () => {
  DisplayProducts(products_10);
});
```


(10%) P2: DOM 應用 -- BMI 計算

BMI = (體重 / 身高²) 體重以公斤計算，身高以公尺計算

BMI < 18.5	Underweight
18.5 <= BMI <= 24	Normal
BMI > 24	Overweight


=> **test for underweight BMI**

weight: 50kg height: 175 cm

 mid21-p2-1.png


=> **test for normal BMI**

weight: 70kg height: 175 cm

 mid21-p2-2.png


=> **test for overweight BMI**

weight: 90kg height: 175 cm

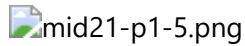
 mid21-p2-3.png

Your Answer

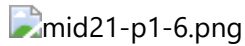
=> **test for lower BMI**

 mid21-p1-4.png

=> **test for normal BMI**



=> **test for higher BMI**



```
const calculateBtn = document.querySelector('#calculate');
const bmiResult = document.querySelector('#result');
const suggest = document.querySelector('#suggest');
const weight = document.querySelector('#weight');
const height = document.querySelector('#height');

function InputWeight() {
  const w = parseFloat(weight.value);
  console.log('W', w);
  return w;
}
console.log('InputWeight', InputWeight());
// const InputWeight = InputWeight();

function InputHeight() {
  const h = parseFloat(height.value);
  console.log('h', h);
  return h;
}
console.log('InputHeight', InputHeight());
// const InputHeight = InputHeight() / 100;

function bmiCalc_10(InputHeight, InputWeight) {
  return InputWeight / (InputHeight * InputHeight);
}
function bmi_normal_low(InputHeight) {
  return 18.5 * (InputHeight * InputHeight);
}
function bmi_normal_high(InputHeight) {
  return 24 * (InputHeight * InputHeight);
}

// function bmiCalcResult_10(InputHeight, InputWeight) {
//   let bmi = bmiCalc_10(InputHeight, InputWeight).toFixed(2);
// }

// function bmiDataCalc_10(data) {
//   data.forEach(function (item) {
//     bmiCalcResult_10(item.InputHeight, item.InputWeight);
//   });
// }

////////////////////////////////////
const LowerReturn = (bmiResult) => {
  const InputWeight = InputWeight();
  const InputHeight = InputHeight() / 100;
```

```

    const BMI = InputWeight / (InputHeight * InputHeight);
    let LowerReturn = bmiResult
      .map((Kg) => {
        return `
          Your BMI is ${BMI} which is ${Kg} kg lower than normal
        `;
      })
      .join('');
    bmiResult.innerHTML = LowerReturn;
  };

  const higherReturn = (bmiResult) => {
    const InputWeight = InputWeight();
    const InputHeight = InputHeight() / 100;
    const BMI = InputWeight / (InputHeight * InputHeight);
    let higherReturn = bmiResult
      .map((Kg) => {
        return `
          Your BMI is ${BMI} which is ${Kg} kg higher than normal
        `;
      })
      .join('');
    bmiResult.innerHTML = higherReturn;
  };

  const normalReturn = (bmiResult) => {
    const InputWeight = InputWeight();
    const InputHeight = InputHeight() / 100;
    const BMI = InputWeight / (InputHeight * InputHeight);
    let normalReturn = bmiResult
      .map((Kg) => {
        return `
          Your BMI is ${BMI} which is normal
        `;
      })
      .join('');
    bmiResult.innerHTML = normalReturn;
  };

  function bmiCalcSuggestion_10(InputHeight, InputWeight) {
    let bmi = InputWeight / (InputHeight * InputHeight);
    if (bmi < 18.5) {
      let normal_low = bmi_normal_low(InputHeight);
      LowerReturn(normal_low);
      document.addEventListener('DOMContentLoaded', () => {
        LowerReturn(bmiResult);
      });
    } else if (bmi < 24) {
      normalReturn(bmiResult);
      document.addEventListener('DOMContentLoaded', () => {
        normalReturn(bmiResult);
      });
    } else {
      let normal_high = bmi_normal_high(InputHeight);

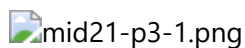
```

```
        higherReturn(normal_high);
        document.addEventListener('DOMContentLoaded', () => {
            higherReturn(bmiResult);
        });
    }
}
function bmiDataSuggestion_10(data) {
    data.forEach(function (item) {
        bmiCalcSuggestion_10(item.InputHeight, item.InputWeight);
    });
}

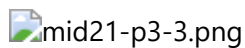
weight.addEventListener('click', C);
height.addEventListener('click', F);
```

(10%) P3: DOM 整合題

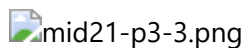
=> 按下左邊 **L1** 按鈕，會顯現 淡江大戲選單，共 **5** 個



=> 按下 淡江大戲 **3** 按鈕，會顯現淡江大戲 **3** 的圖片 (**images/TKU3.png**)

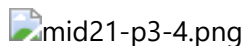


=> 按下左邊 **L2** 按鈕，會將淡江大戲選單全部清除

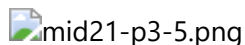


Your Answer

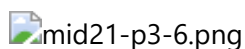
=> 按下左邊 **L1** 按鈕，會顯現 淡江大戲選單，共 **5** 個



=> 按下 淡江大戲 **3** 按鈕，會顯現淡江大戲 **3** 的圖片 (**images/TKU3.png**)



=> 按下左邊 **L2** 按鈕，會將淡江大戲選單全部清除



```
function changeImage(index) {
    const player = document.querySelector('#player');
    console.log('player', player);
    switch (index) {
```

```
    }  
  }  
  
  function showTKU60() {  
    const p = document.querySelector('#menu1');  
    p.addEventListener('click', () => {});  
  }  
  
  function clearMenu1All() {  
    const p = document.querySelector('#menu1');  
    p.addEventListener('click', () => {});  
  }
```