(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): (陳亮瑜, 208410331)

Mid21 斷網題目 (30%)

• P1 (10%): 10 分

• P2 (10%): 7分

• P3 (10%): 2分

總分: ? 分

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

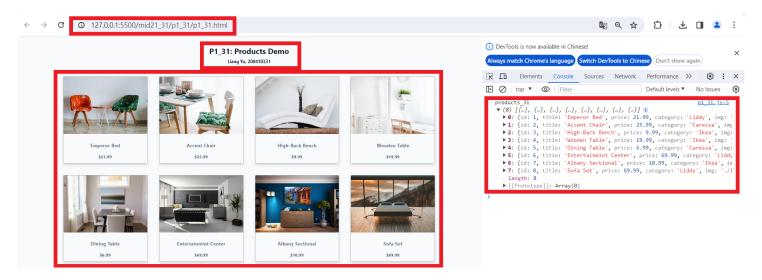
請從 p1_data_xx.js 中之 all_products_xx 陣列產生 8 筆產品資料放入 products_xx 中。第 1 筆之 id 是你學號最後一碼,由此往下找 8 筆,如果學號最後一碼是 0 則從 id=10 產品開始, 取得 10, 11, 12, 1, 2, 3, 4, 5, 放入 products xx 中。

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

mid21-p1-1.png

Your Answer

=> Chrome 顯示, 如上圖



```
將 p1 31.js code 放入此
import { products_31, all_products_31 } from './p1_data_31.js';
const productContainer = document.querySelector('.products-container');
console.log('products_31', products_31);
const DisplayProducts = (products) => {
  let displayMenu = products
    .map((item) => {
      const { id, title, category, price, img, desc } = item;
      return `
    <div class="single-product">
    <img
      src=${img}
      class="single-product-img img"
      alt="high-back bench"
    />
    <footer>
      <h3 class="name">${title}</h3>
      <span class="price">$${price}</span>
    </footer>
  </div>
    })
    .join('');
  productContainer.innerHTML = displayMenu;
};
document.addEventListener('DOMContentLoaded', () => {
  DisplayProducts(products_31);
});
```

(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 > 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

```
將 p2_31.js code 放入此
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 weightInput() {
 // return userInput.value
  return parseInt(weight.value);
}
function heightInput() {
  // return userInput.value
  return parseInt(height.value);
}
function outputResult(result, text) {
  let bmiResult = bmiCalc_31(height, weight);
  calculateBtn.textContent = text;
  bmiResult.textContent = result;
  suggest.textContent = text;
}
function bmiCalc_31(weight, height) {
 weight = weightInput().toFixed(2);
 height = heightInput().toFixed(2);
  console.log('weight', weight);
  bmiResult.textContent = weight / (height * height);
  return weight / (height * height);
}
function bmiCalcSuggestion_31(height, weight) {
  let result = bmiCalc_31(height, weight).toFixed(2);
 if (result < 18.5) {
    let normal_low = bmi_normal_low(height);
    suggest.textContent = `Your BMI is ${result} Underweight. add at least ${(
      normal_low - weight
    ).toFixed(2)}kg.`;
  } else if (result < 24) {</pre>
    suggest.textContent = `Your BMI is${result}normal.`;
```

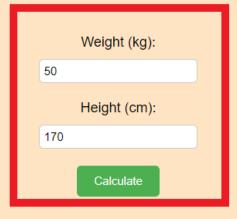
```
} else {
    let normal_high = bmi_normal_high(height);
    console.log('normal_high', normal_high);
    suggest.textContent = `Your BMI is ${result} Overweight. reduce at least ${(
     weight - normal_high
    ).toFixed(2)}kg to normal.`;
  }
}
function bmi_normal_low(height) {
  return 18.5 * (height * height);
}
function bmi_normal_high(height) {
  return 24 * (height * height);
}
// function bmiDataCalcSuggestion(data) {
//
     data.forEach(function (item) {
       bmiCalcSuggestion_31(item.height, item.weight);
//
//
     });
// }
calculateBtn.addEventListener('click', bmiCalcSuggestion_31);
```

127.0.0.1:5500/mid21_31/p2_31/p2_31.html

P2_31: BMI Calculation

Liang Yu, 208410331

BMI Calculator



0.0017301038062283738

Your BMI is 0.00 Underweight, add at least NaNkg.

① 127.0.0.1:5500/mid21_31/p2_31/p2_31.html

P2_31: BMI Calculation

Liang Yu, 208410331

ВМІ	Calculator
V	Veight (kg):
19 H	deight (cm):
1.75	Calculate
_	
Your BM	19 II is19.00normal.

① 127.0.0.1:5500/mid21_31/p2_31/p2_31.html

P2_31: BMI Calculation

Liang Yu, 208410331

_	BMI Calculator
	Weight (kg):
	70
	Height (cm):
	1.75
	Calculate
	70
Your Bi	MI is 70.00 Overweight. reduce at least NaNkg to normal.

(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

mid21-p3-1.png

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

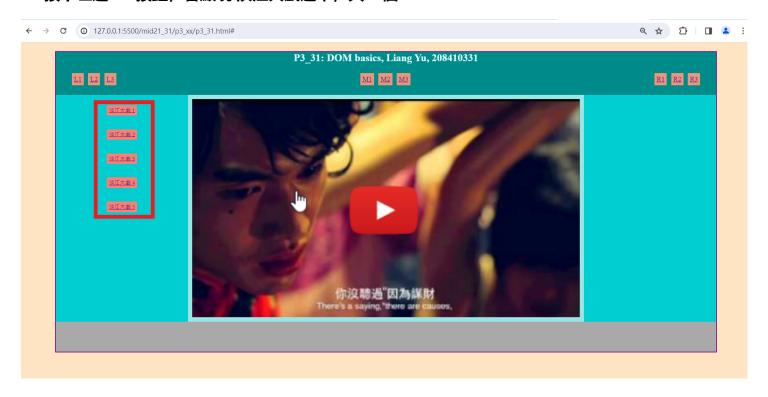
mid21-p3-3.png

=> 按下左邊 L2 按鈕, 會將淡江大戲選單全部清除

mid21-p3-3.png

Your Answer

=> 按下左邊 L1 按鈕,會顯現 淡江大戲選單,共 5 個



```
p3_31.js code
function changeImage(index) {
  const player = document.querySelector('#player');
  console.log('player', player);
  switch (index) {
  }
}
function showTKU60() {
  const p = document.querySelector('#menu1');
}
function clearMenu1All() {
  const p = document.querySelector('#menu1');
}
window.addEventListener('DOMContentLoaded', () => {
  showTKU60();
  console.log('click', click);
});
```

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

mid21-p3-5.png

=> 按下左邊 L2 按鈕,會將淡江大戲選單全部清除

mid21-p3-6.png