

JavaScript Grp1.0316

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組別：設計課第 6 組

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一． 題目

使用 HTML / CSS / Javascript 設計一曆法

【繳交】

1. JavaScript 程序文字檔 (txt)
2. 執行結果截圖 (png)
3. JavaScript 程序設計說明 (pdf)
4. Powerpoint (PPT)

+ 曆法的選擇

<https://zh.wikipedia.org/wiki/%E5%8E%86%E6%B3%95%E5%88%97%E8%A1%A8>
曆法列表

+ 曆法的設計

<https://www.rfoot-print.com/calendar.html>

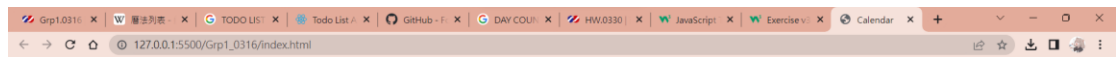
+ 附加功能

TODO LIST

DAY COUNTDOWN

https://www.google.com/search?
q=day+countdown&tbm=isch&ved=2ahUKEwiY_fOprt_9AhU6m1YBHS6cAvwQ2-
cCegQIABAA&oq=dAY+COUNTDOWN&gs_lcp=CgNpbWcQARgAMgclABCABBATMgclABCABBAT
MgclABCABBATMgclABCABBATMgclABCABBATMgclABCABBATMgclABCABBATMgclABCABBAT
MgclABCABBATMgclABCABBATUABYAGCiLWgAcAB4AIABKogBKpIBATGYAQcQqAQtd3Mtd2l6L
WltZ8ABAQ&scient=img&ei=a3kSZNibMLq22roPriK4A8&bih=821&biw=1280&rlz=1C1CHZN_zh-
TWTW993TW1009

二. 截圖



<

April 2023

>

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Todo List

輸入待辦事項

新增

Day Countdown

輸入一個日期 (YYYY-MM-DD)



<

November 2022

>

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

<

April 2023

>

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

127.0.0.1:5500 顯示
您選擇的時間為 2023年3月6日

確定

Todo List

輸入待辦事項

新增



吃早餐

刪除



吃午餐

刪除



吃晚餐

刪除



吃宵夜

刪除

Todo List

輸入待辦事項

新增



吃午餐

刪除



吃晚餐

刪除



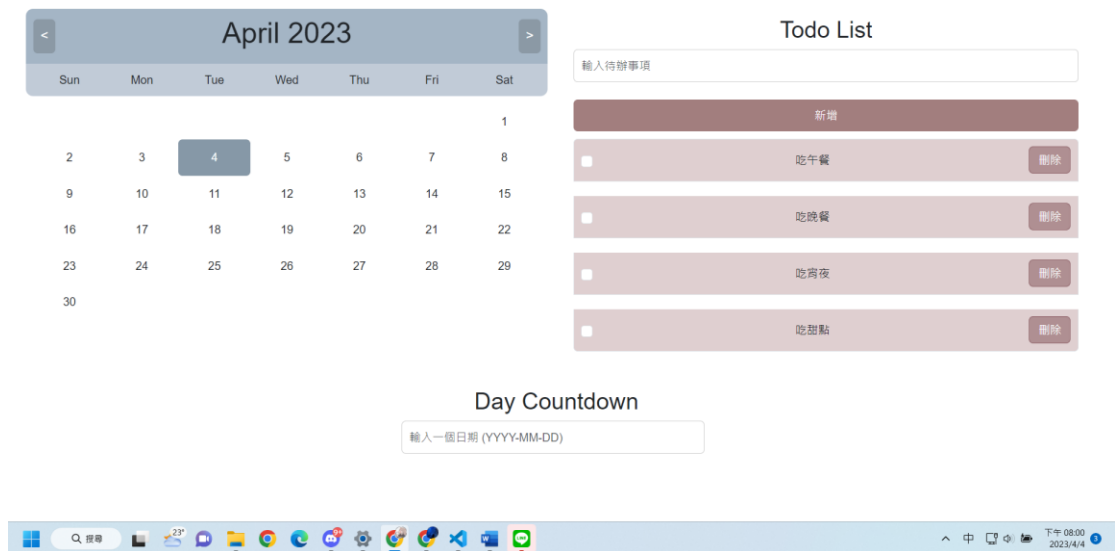
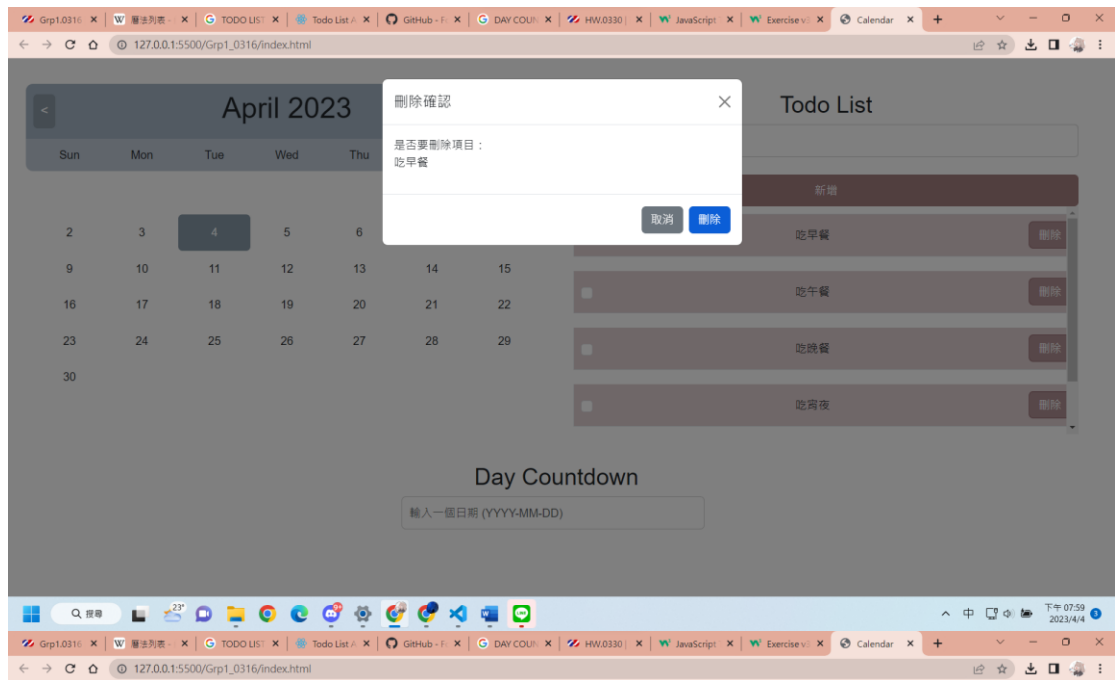
吃宵夜

刪除



吃甜點

刪除



Todo List

新增



吃午餐

刪除



吃晚餐

刪除



吃宵夜

刪除



吃甜點

刪除

Day Countdown

272 days

Day Countdown

請輸入一個有效的日期

三． 說明

首先通過 `document.querySelector()` 方法獲取了幾個 DOM 元素，如月曆、月份、星期、日期等。接下來，通過一些基本的 JavaScript 方法，如 `createElement()`、`innerHTML`、`appendChild()` 等，將相應的內容顯示在網頁上。在顯示日期的部分，程式通過計算每個月有多少天以及第一天是星期幾來顯示當前月份的所有日期，並且在當前日期上加上一個背景顏色。

此外，程式還通過添加事件監聽器來實現一些交互功能，如切換月份、添加待辦事項、刪除待辦事項以及計算日期差等。最後，整個程式還需要經過一個 `renderCalendar()` 函數的調用才能正常運行。

四 · .html 程式

```
<!DOCTYPE html>
<html>

<head>
  <title>Calendar</title>

  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/boot
strap.min.css" rel="stylesheet"
    integrity="sha384-GLhlTQ8iRABdZLl603oVMWSktQOp6b7In1Zl3/Jr59b6EG
GoI1aFkw7cmDA6j6gD" crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootst
rap.bundle.min.js"
    integrity="sha384-w76AqPfDkMBDXo30jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYd
gRZgiwxhTBTkF7CXvN"
    crossorigin="anonymous"></script>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>
  <div class="container-contact">
    <div class=" row row-block">
      <div class="col-sm-6">
        <div class="calendar">
          <div class="month">
            <button class="prev btn">&lt;</button>
            <h1></h1>
            <button class="next btn">&gt;</button>
          </div>
          <div class="weekdays">
```

```

        <div>Sun</div>
        <div>Mon</div>
        <div>Tue</div>
        <div>Wed</div>
        <div>Thu</div>
        <div>Fri</div>
        <div>Sat</div>
    </div>
    <div class="days"></div>
</div>
<div class="col-sm-6">
    <div class="todo-list">
        <h2>Todo List</h2>
        <form>
            <input class="form-control" style="width: 100%;"
type="text" id="todo-input"
                placeholder="輸入待辦事項"><br>

            <input type="submit" class="btn" style="width:
100%;" id="add-todo-btn" value="新增">

        </form>
        <div style="max-height:315px; overflow-y:
overlay">
            <ul class="list-group" id="todo-list"></ul>
        </div>
    </div>
</div>
<div class="col-sm-12">
    <div class="day-countdown">
        <h2>Day Countdown</h2>
        <center>
            <input class="form-control" type="text"
id="countdown-input" placeholder="輸入一個日期 (YYYY-MM-DD)">
            <div id="countdown-result"></div>
        </center>
    </div>
</div>

```



```

        </div>
    </div>
</div>
<!-- 刪除確認方塊 -->
<div class="modal fade" id="staticBackdrop" data-bs-backdrop="static"
data-bs-keyboard="false" tabindex="-1"
    aria-labelledby="staticBackdropLabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h1 class="modal-title fs-5" id="staticBackdropLabel">
刪除確認</h1>
                <button type="button" class="btn-close"
data-bs-dismiss="modal" aria-label="Close"></button>
            </div>
            <div class="modal-body">
                <p id="static_backdrop_check_label" style="word-wrap:
break-word;"></p>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">取消</button>
                <button type="button" class="btn btn-primary"
data-bs-dismiss="modal" onclick="del()">刪除</button>
            </div>
        </div>
    </div>
</div>
<script type="text/javascript" src="script.js"></script>
</body>
</html>

```

五 · .css 程式

```

html {
    width: 99vw;

```

```
}

body {
  padding: 25px;
}

.calendar {
  font-family: Arial, sans-serif;
  margin: 10px auto;
}

.month {
  display: flex;
  justify-content: space-between;
  align-items: center;
  background-color: #a4b5c5;
  padding: 10px;
  border-radius: 10px 10px 0px 0px;
}

.month .btn {
  color: #fff;
  background-color: #8b99a5;
  border-color: #8b99a5;
}

.month .btn:hover {
  color: #fff;
  background-color: #6c757d;
  border-color: #6c757d;
}

.weekdays {
  display: flex;
  flex-wrap: wrap;
  background-color: #c1cbd7;
  padding: 10px;
  border-radius: 0px 0px 10px 10px;
```

```
}

.weekdays div {
  width: calc(100% / 7);
  height: 25px;
  display: flex;
  justify-content: center;
  align-items: center;
}

.days {
  display: flex;
  flex-wrap: wrap;
  background-color: #fff;
  padding: 10px;
}

.days div {
  width: calc(100% / 7);
  height: 50px;
  display: flex;
  justify-content: center;
  align-items: center;
}

.prev,
.next {
  background-color: #ffffff;
  color: #fff;
  border: none;
  padding: 10px;
  font-size: 18px;
  cursor: pointer;
}

.date {
  display: flex;
  justify-content: center;
```

```
    align-items: center;
    font-size: 20px;
}

.todo-list {
    max-width: 700px;
    margin: 20px auto;
    font-family: Arial, sans-serif;
}

.todo-list h2 {
    text-align: center;
}

#todo-input {
    padding: 10px;
    font-size: 16px;
    width: 80%;
    margin-right: 10px;
    border: 1px solid #ccc;
}

#add-todo-btn {
    background-color: #a27e7e;
    color: #fff;
    border: none;
    padding: 10px;
    font-size: 16px;
    cursor: pointer;
}

#todo-list {
    list-style-type: none;
    padding: 0;
}

li .btn {
    color: #fff;
```

```
    background-color: #af8f92;
    border-color: #8b5d63;
}

li .btn:hover {
    color: #fff;
    background-color: #8b5d63;
    border-color: #8b5d63;
}

#todo-list li {
    margin: 10px 0;
    display: flex;
    justify-content: space-between;
    align-items: center;
    background-color: #dfcfd0;
    padding: 10px;
}

input[type="checkbox"]:checked+label {
    text-decoration: line-through;
}

.day-countdown {
    max-width: 700px;
    margin: 20px auto;
    font-family: Arial, sans-serif;
}

.day-countdown h2 {
    text-align: center;
}

#countdown-input {
    padding: 10px;
    font-size: 16px;
    width: 60%;
    margin-right: 10px;
}
```

```
    border: 1px solid #ccc;
}

#countdown-result {
    font-size: 20px;
    font-weight: bold;
    margin-top: 10px;
}

#countdown-result span {
    font-size: 16px;
    font-weight: normal;
    margin-left: 5px;
}
```

六 · .js 程式

```
const calendar = document.querySelector(".calendar");
const month = document.querySelector(".month h1");
const weekdays = document.querySelector(".weekdays");
const days = document.querySelector(".days");

const todoInput = document.getElementById("todo-input");
const addTodoBtn = document.getElementById("add-todo-btn");
const todoList = document.getElementById("todo-list");

const countdownInput = document.getElementById("countdown-input");
const countdownResult = document.getElementById("countdown-result");

const months = ["January", "February", "March", "April", "May", "June",
"July", "August", "September", "October", "November", "December"];

const daysOfWeek = ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"];

let currentDate = new Date();
let currentMonth = currentDate.getMonth();
let currentYear = currentDate.getFullYear();
```

```
let currentDay = currentDate.getDay();

// 顯示月曆
function renderCalendar() {
    // 重置
    month.innerHTML = "";
    weekdays.innerHTML = "";
    days.innerHTML = "";

    // 顯示月份和年份
    month.innerHTML = months[currentMonth] + " " + currentYear;

    // 顯示星期
    for (let i = 0; i < daysOfWeek.length; i++) {
        const weekday = document.createElement("div");
        weekday.innerHTML = daysOfWeek[i];
        weekdays.appendChild(weekday);
    }

    // 顯示日期
    let daysInMonth = new Date(currentYear, currentMonth + 1, 0).getDate();
    let firstDay = new Date(currentYear, currentMonth).getDay();
    firstDay = 0 - firstDay + 1;
    for (let i = firstDay; i <= daysInMonth; i++) {
        const day = document.createElement("div");
        day.className = "btn";
        if (i > 0) {
            day.innerHTML = i
        }
        if (i == currentDate.getDate() && currentMonth ==
currentDate.getMonth() && currentYear == currentDate.getFullYear()) {
            day.style.backgroundColor = '#8698a7';
            day.style.color = 'ffffff';
        }
        days.appendChild(day);
    }

    // 確認日期視窗
```

```
const calendarDays = document.querySelectorAll(".days div");
calendarDays.forEach(function (calendarDay) {
    calendarDay.addEventListener("click", function () {
        alert("您選擇的時間為 " + currentYear + "年" + currentMonth + "
月" + this.innerHTML + "日");
    });
});

renderCalendar();

// 切換到上個月
document.querySelector(".prev").addEventListener("click", function () {
    currentMonth--;
    if (currentMonth < 0) {
        currentMonth = 11;
        currentYear--;
    }
    renderCalendar();
});

// 切換到下個月
document.querySelector(".next").addEventListener("click", function () {
    currentMonth++;
    if (currentMonth > 11) {
        currentMonth = 0;
        currentYear++;
    }
    renderCalendar();
});

var li;

// 添加待辦事項
addTodoBtn.addEventListener("click", function () {
    if (todoInput.value.trim() !== "") {
        const todo = document.createElement("li");
        todo.className = "list-group-item";
```



```

const input = document.createElement("input");
const label = document.createElement("label");
const button = document.createElement("button");

input.className = "form-check-input me-1";
input.type = "checkbox";
input.value = "";

label.className = "form-check-label";
label.innerHTML = todoInput.value;
label.style.wordWrap = "break-word";
label.style.maxWidth = "80%"

button.innerHTML = "刪除";
button.className = "btn";
button.dataset.bsToggle = "modal";
button.dataset.bsTarget = "#staticBackdrop";

button.onclick = function () {
    li = this.parentNode;
    var label =
this.parentNode.querySelector('.form-check-label').innerHTML;
    document.getElementById("static_backdrop_check_label").inner
HTML = "是否要刪除項目：<br>" + label;
};

todo.appendChild(input);
todo.appendChild(label);
todo.appendChild(button);

todoList.appendChild(todo);
todoInput.value = "";
}
});

// 刪除待辦事項
function del() {

```

```
li.parentNode.removeChild(li);
}

// 倒數計時日期
countdownInput.addEventListener("input", function () {
    const date = new Date(countdownInput.value);
    if (date instanceof Date && !isNaN(date)) {
        const timeDiff = date.getTime() - currentDate.getTime();
        const daysDiff = Math.ceil(timeDiff / (1000 * 60 * 60 * 24));
        countdownResult.innerHTML = daysDiff + "<span> days</span>";
    } else {
        countdownResult.innerHTML = "請輸入一個有效的日期";
    }
});
```