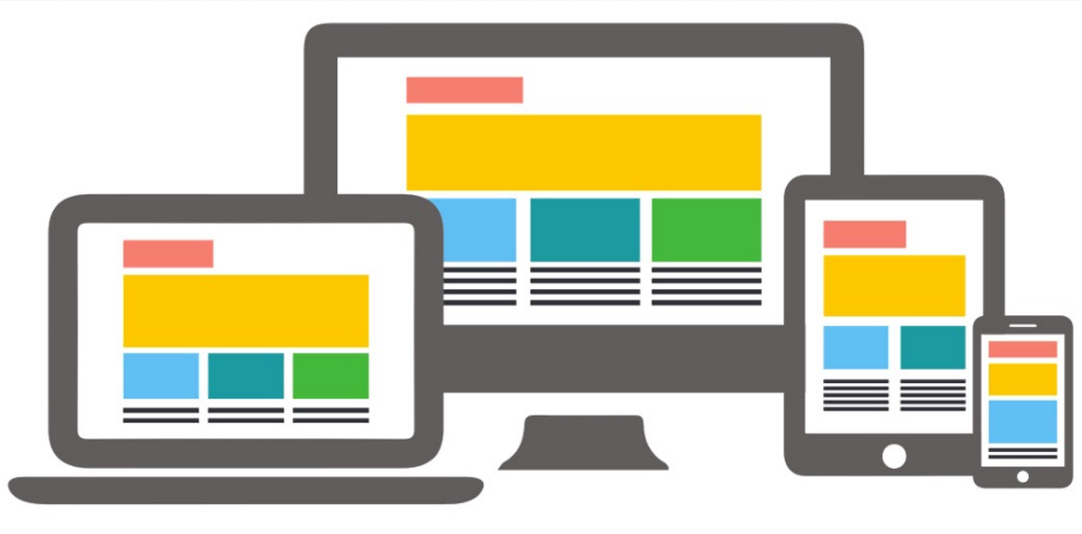
BOOTSTRAP 5

高莉淇

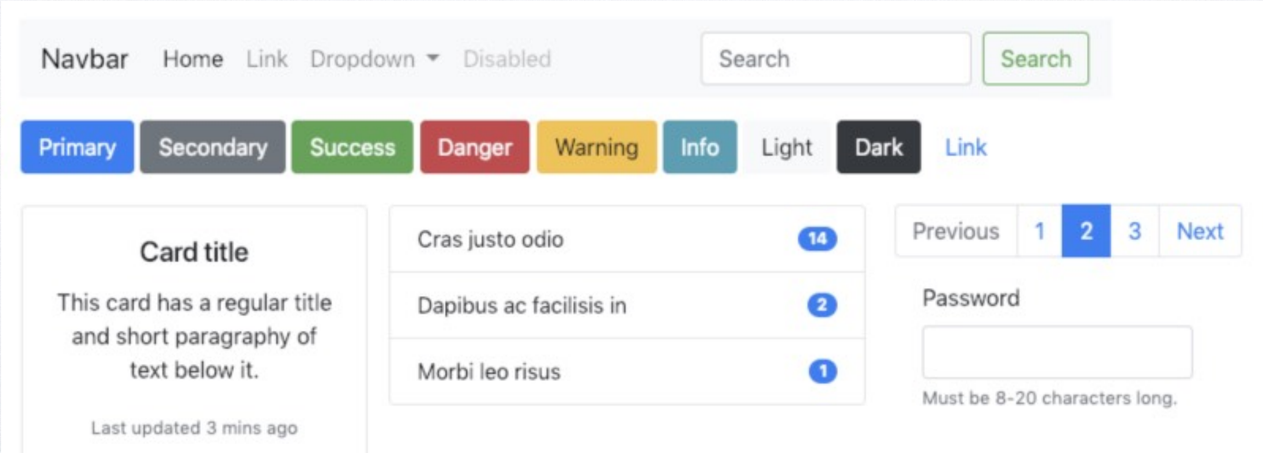
RWD

- 響應式網頁設計 Responsive Web Design
- 因應市面上多種的 Device，使得一個網頁，運用在多個平台上



BOOTSTRAP

- Bootstrap 是一個由 HTML、CSS 和 JavaScript 寫成的前端框架，核心的設計目標是達成RWD響應式與行動優先
    - 包含許多事先做好的組件。
    - 提供完整的 css grid system 使你可以輕鬆打造響應式的 layout。
    - 提供高度的客製化彈性並有著良好的瀏覽器支援度。



引入 BOOTSTRAP

- 使用 CDN （Content Delivery Networks）來包含Bootstrap5

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>
```

- 下載必要檔案到本地端 bootstrap.min.css 和 bootstrap.bundle.min.js

```
<link href="css/bootstrap.min.css" rel="stylesheet">
<script src="js/bootstrap.bundle.min.js"></script>
```

- 參考文件 Bootstrap

Build fast, responsive sites with Bootstrap

今天教的東西不用死記，用到再查

TEXT SIZE / BG COLOR

- 設定字體大小

.fs-1 text

.fs-2 text

.fs-3 text

.fs-4 text

.fs-5 text

.fs-6 text

- 設定字體顏色

.text-primary

.text-secondary

.text-success

.text-danger

.text-warning

.text-info

.text-light

.text-dark

.text-muted

.text-white

- 設定背景顏色

.bg-primary

.bg-secondary

.bg-success

.bg-danger

.bg-warning

.bg-info

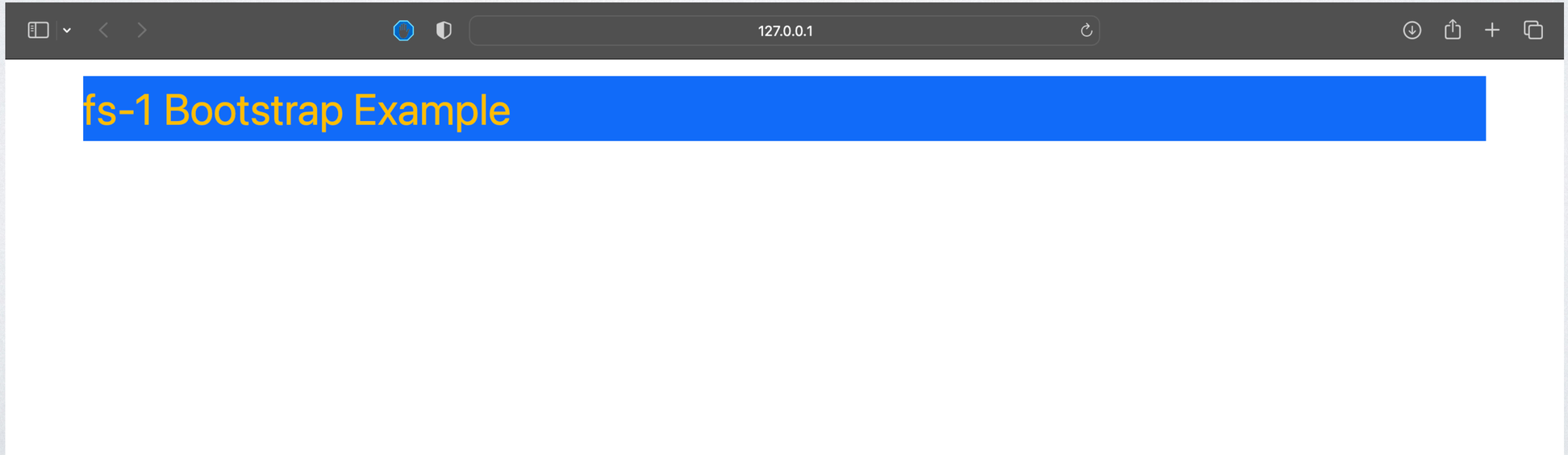
.bg-light

.bg-dark

.bg-white

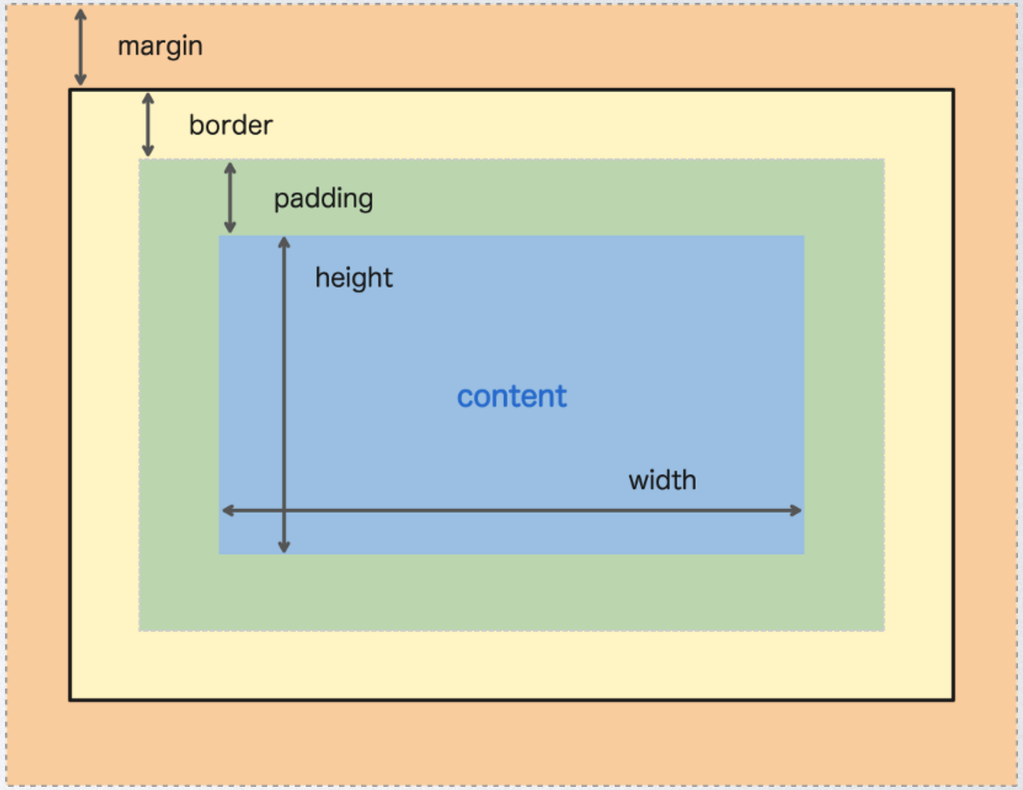
TEXT SIZE / BG COLOR

- 搭配文件：1_text.html
- 練習做出以下畫面，更換字體大小顏色及背景顏色



BOX MODEL

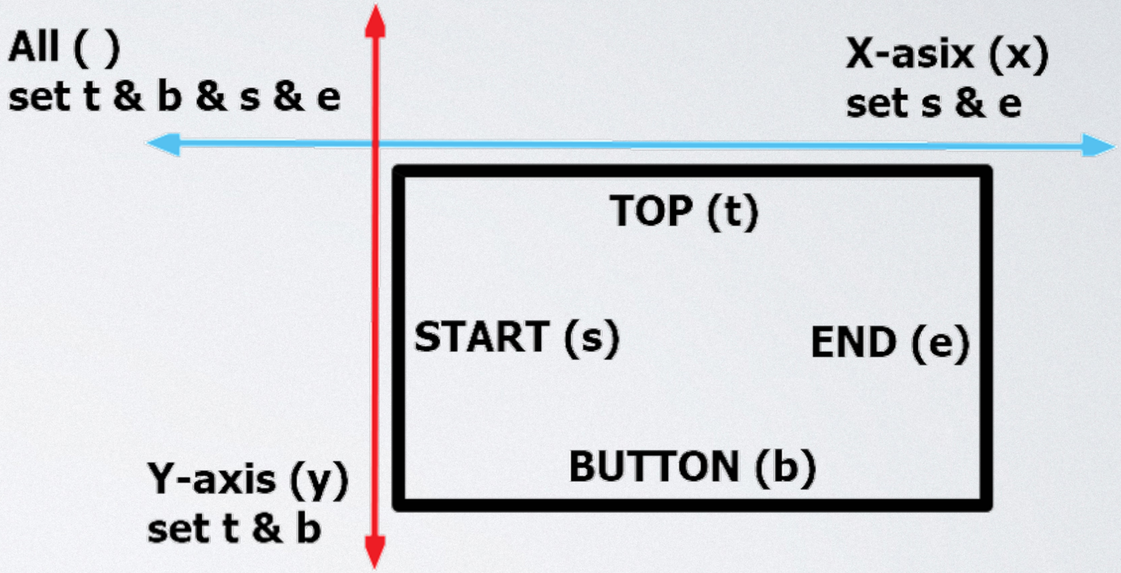
- Margin： Element 之間的相隔空間
- Border： Element 框線
- Padding： Border 與 Content 之間的空隙
- Content： Element 內容



BOX MODEL

- Margin：m<side>-<space size>
- Padding：p<side>-<space size>

- Example：
  - mb-1 (Margin Button 1)
  - m-2 (Margin All 2)
  - ps-3 (Padding Start 3)
  - py-4 (Padding Yaxis 4)



BOX MODEL

- Margin : m<side>-<space size>
- Padding : p<side>-<space size>

- **Side**

  t - margin-top or padding-top

  b - margin-bottom or padding-bottom

  s - margin-left or padding-left

  e - margin-right or padding-right

  x - both padding-left and padding-right or margin-left and margin-right

  y - both padding-top and padding-bottom or margin-top and margin-bottom

  blank - margin or padding on all 4 sides

BOX MODEL

- Margin：m<side>-<space size>
- Padding：p<side>-<space size>

rem為寬度單位，預設值為2%大小。

- **Space size**

  0 - sets margin or padding to 0

  1 - sets margin or padding to .25rem

  2 - sets margin or padding to .5rem

  3 - sets margin or padding to 1rem

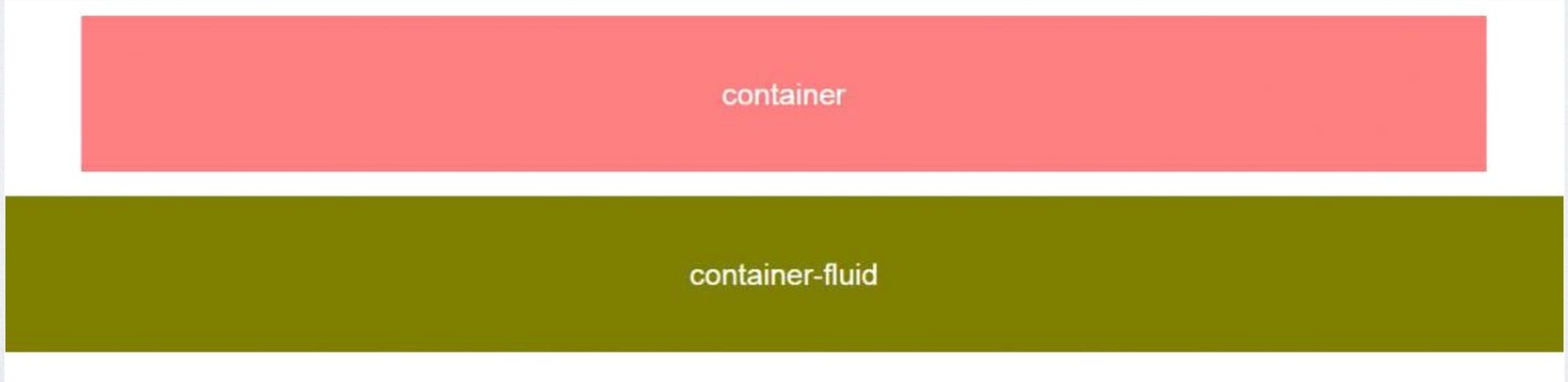
  4 - sets margin or padding to 1.5rem

  5 - sets margin or padding to 3rem

  auto - sets margin to auto

CONTAINER

- **container**：提供一個響應式固定寬度的容器，max-width在不同的螢幕寬度有不同的值
- **container-fluid**：提供一個響應式滿版寬度的容器



CONTAINER

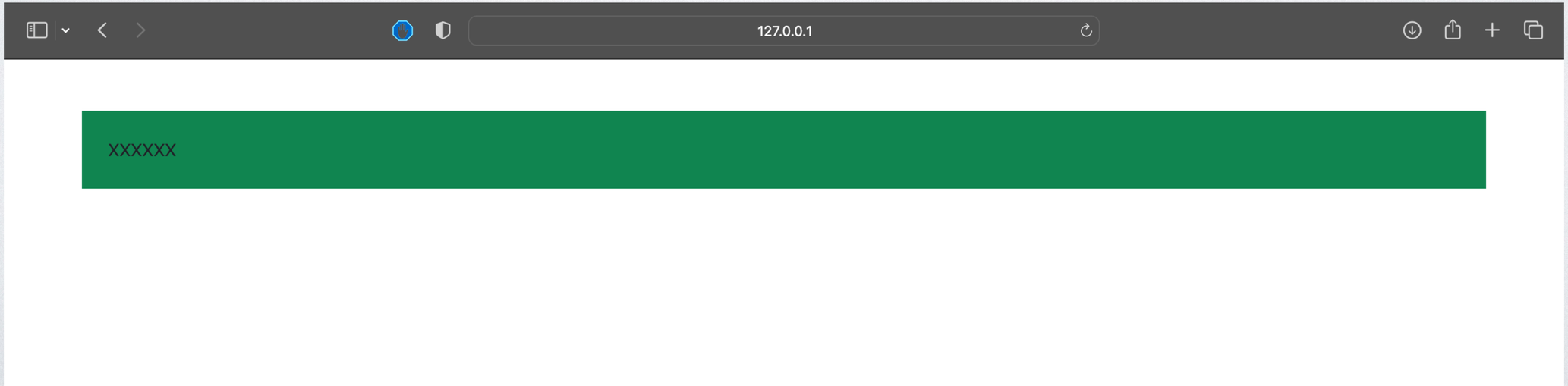
- container-<rwd_size>

<rwd_size> =	none	sm	md	lg	xl	xxl
	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	X-Large ≥1200px	XX-Large ≥1400px
.container	100%	540px	720px	960px	1140px	1320px
.container-sm	100%	540px	720px	960px	1140px	1320px
.container-md	100%	100%	720px	960px	1140px	1320px
.container-lg	100%	100%	100%	960px	1140px	1320px
.container-xl	100%	100%	100%	100%	1140px	1320px
.container-xxl	100%	100%	100%	100%	100%	1320px
.container-fluid	100%	100%	100%	100%	100%	100%

BOX MODEL

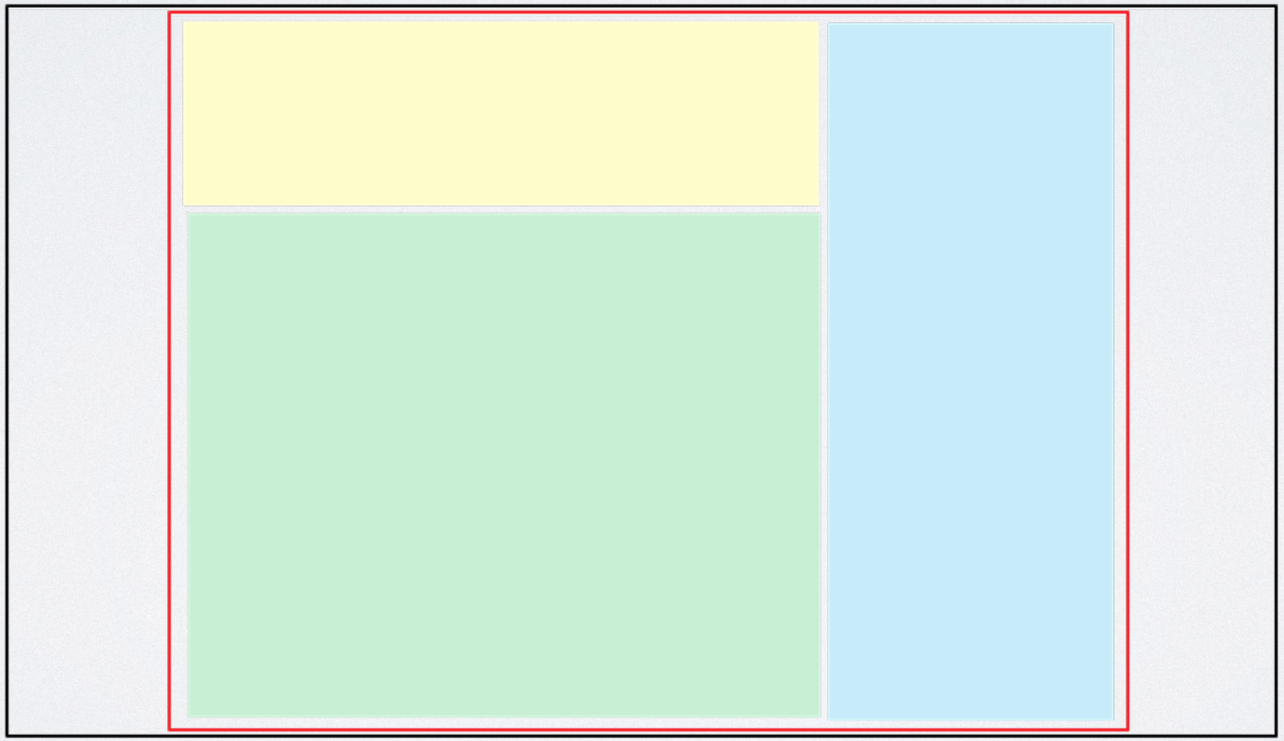
- 搭配文件：2_boxmodel.html

- 練習做出以下畫面
- 讓 XXX 以及綠色框框都不要貼邊，且用到響應式固定寬度的容器



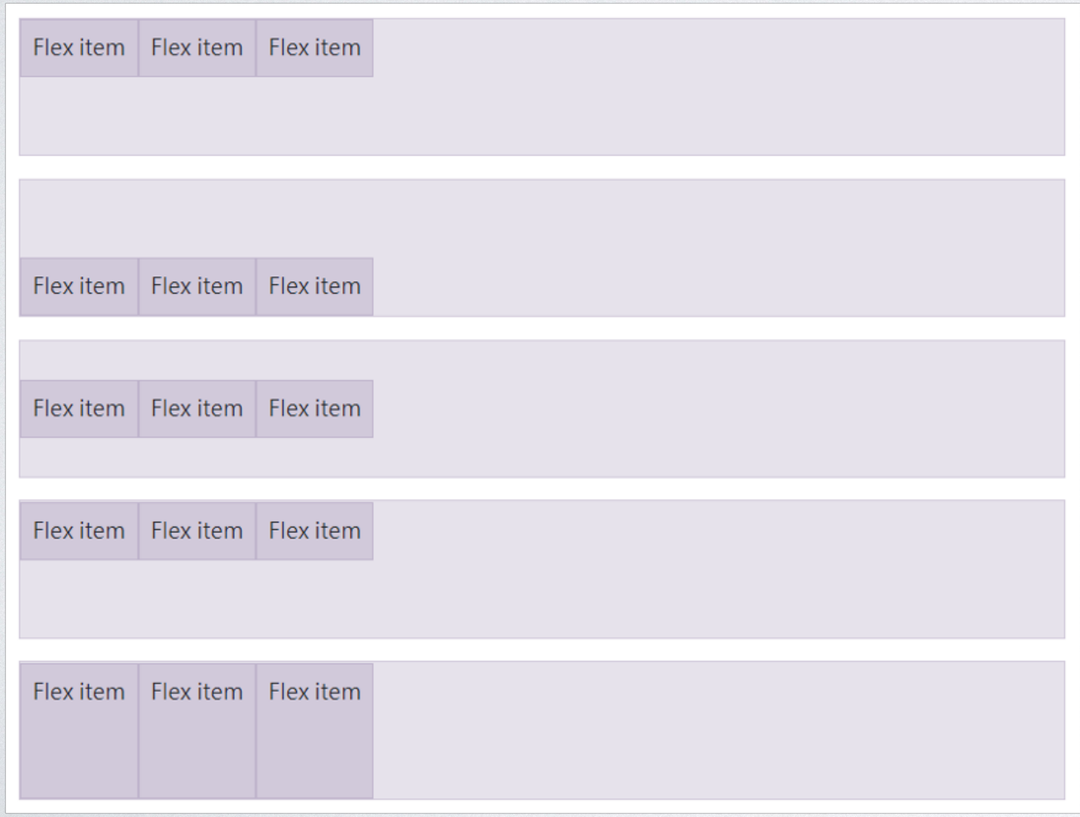
FLEX

- 在設定好的寬度下，切割版面



FLEX

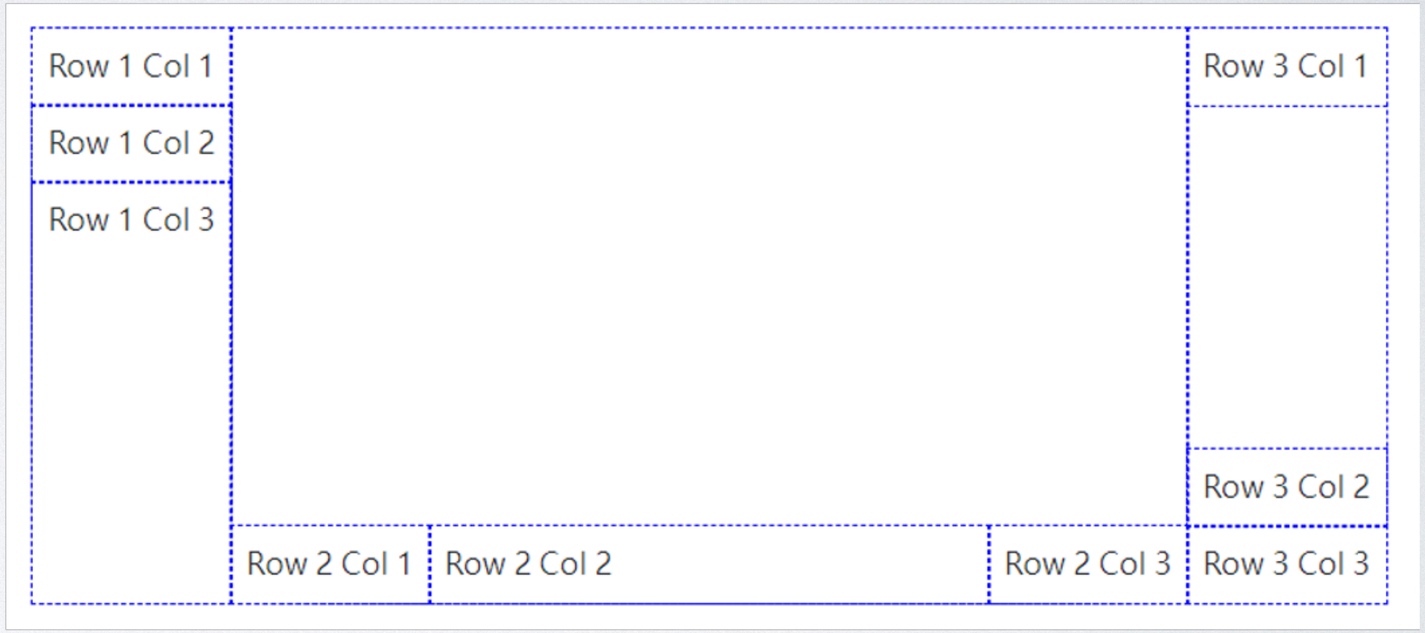
- 在設定好的寬度下，切割版面



FLEX

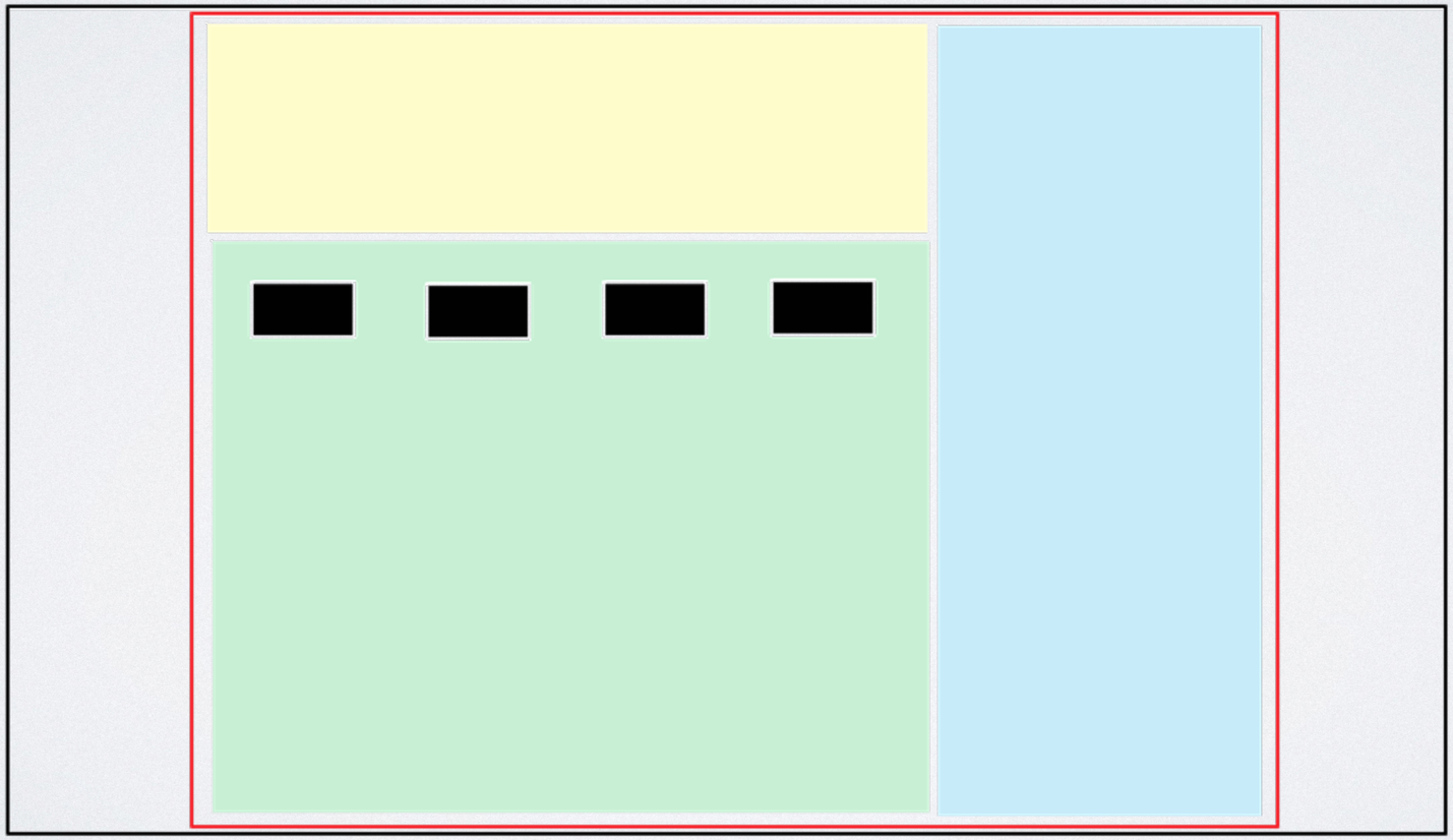
- 搭配文件：3_flex.html

- 練習做出以下畫面
- height 300px, Row2 width 500px
- Tips : fill, align-items, margin-auto



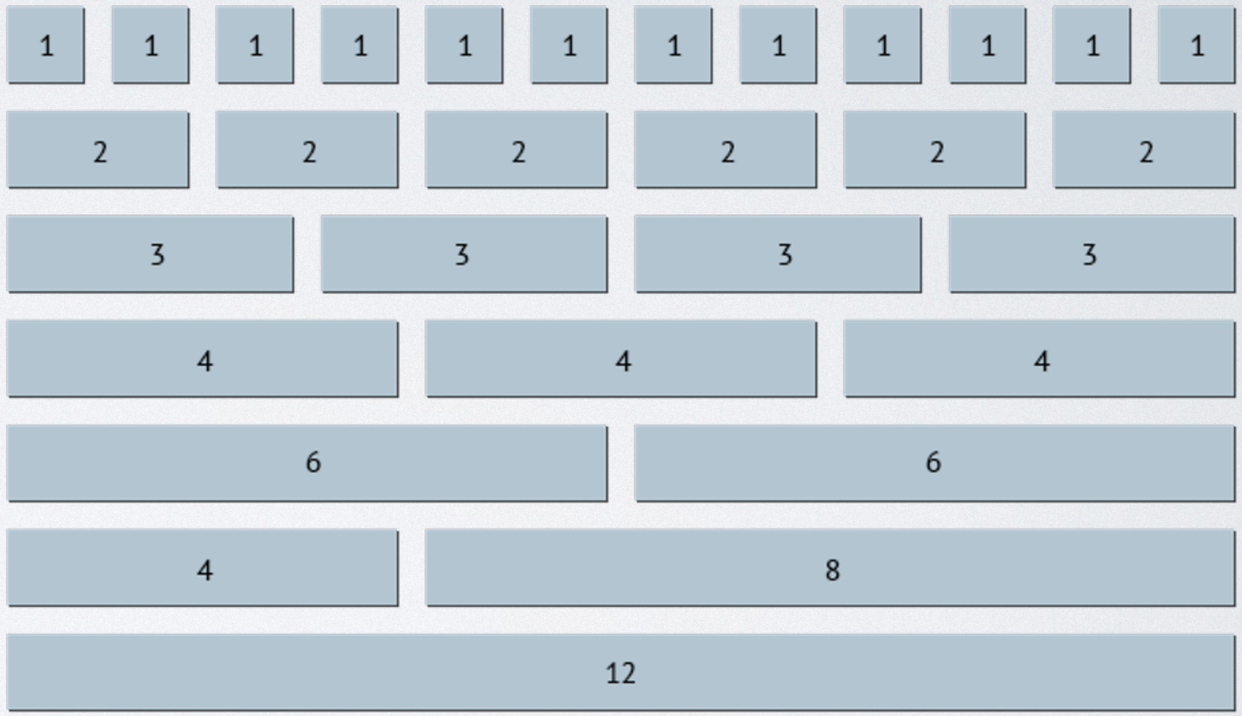
ROW COLUMN

- 在切割好的畫面下，放置RWD內容



ROW COLUMN

- 一個 row 有 12格 column
- col-<rwd_size>-<column_num>
  - Example：
    - col-xl-3
    - col-xxl-4



ROW COLUMN

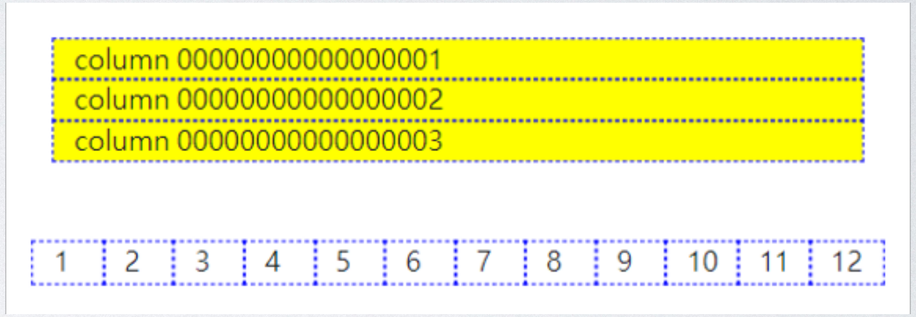
- 一個 row 有 12格 column
- col-<rwd_size>-<column_num>
  - Example：
    - col-xl-3
    - col-xxl-4

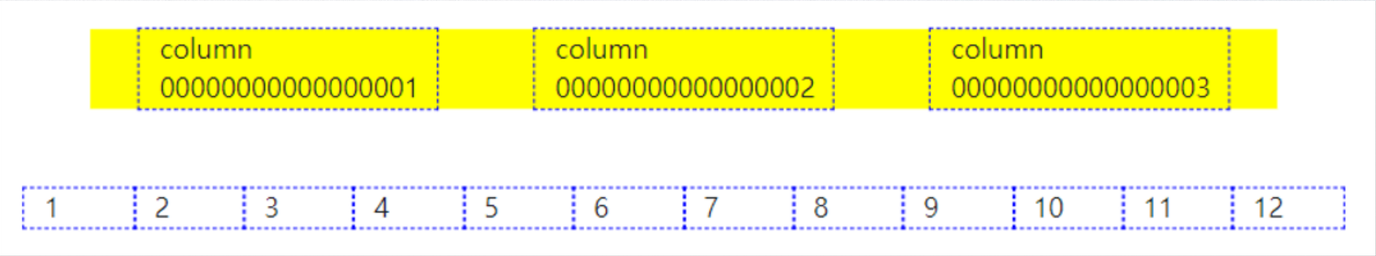
Breakpoint	Class infix	Dimensions
X-Small	*None*	<576px
Small	`sm`	≥576px
Medium	`md`	≥768px
Large	`lg`	≥992px
Extra large	`xl`	≥1200px
Extra extra large	`xxl`	≥1400px

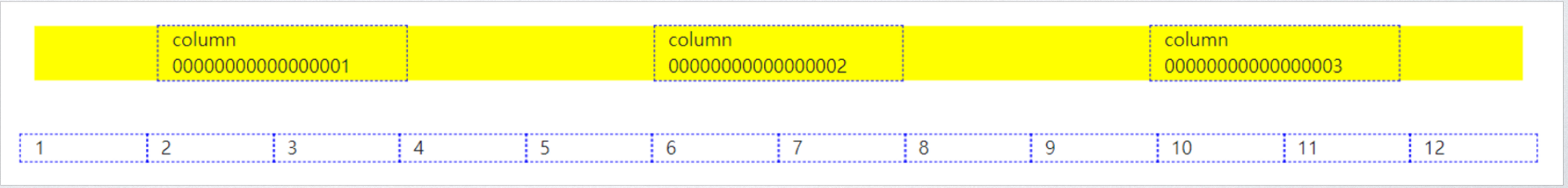
ROW COLUMN

- 搭配文件：4_rowcolumn.html

- 練習做出以下畫面
- 在不同版面下，column有不同的大小，且column間要有空隙



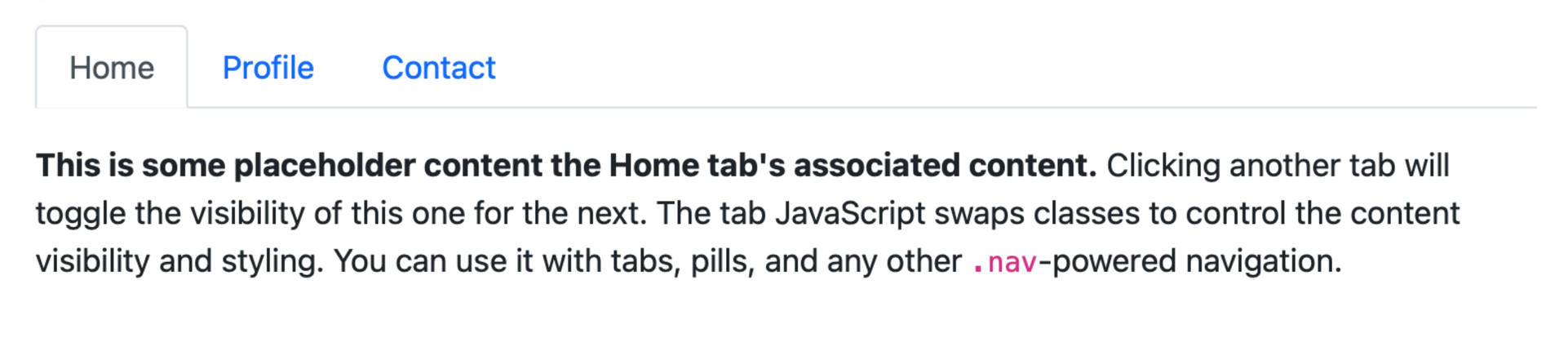




NAV TAB

- 引入 JavaScript ，即可使用分頁標籤插件

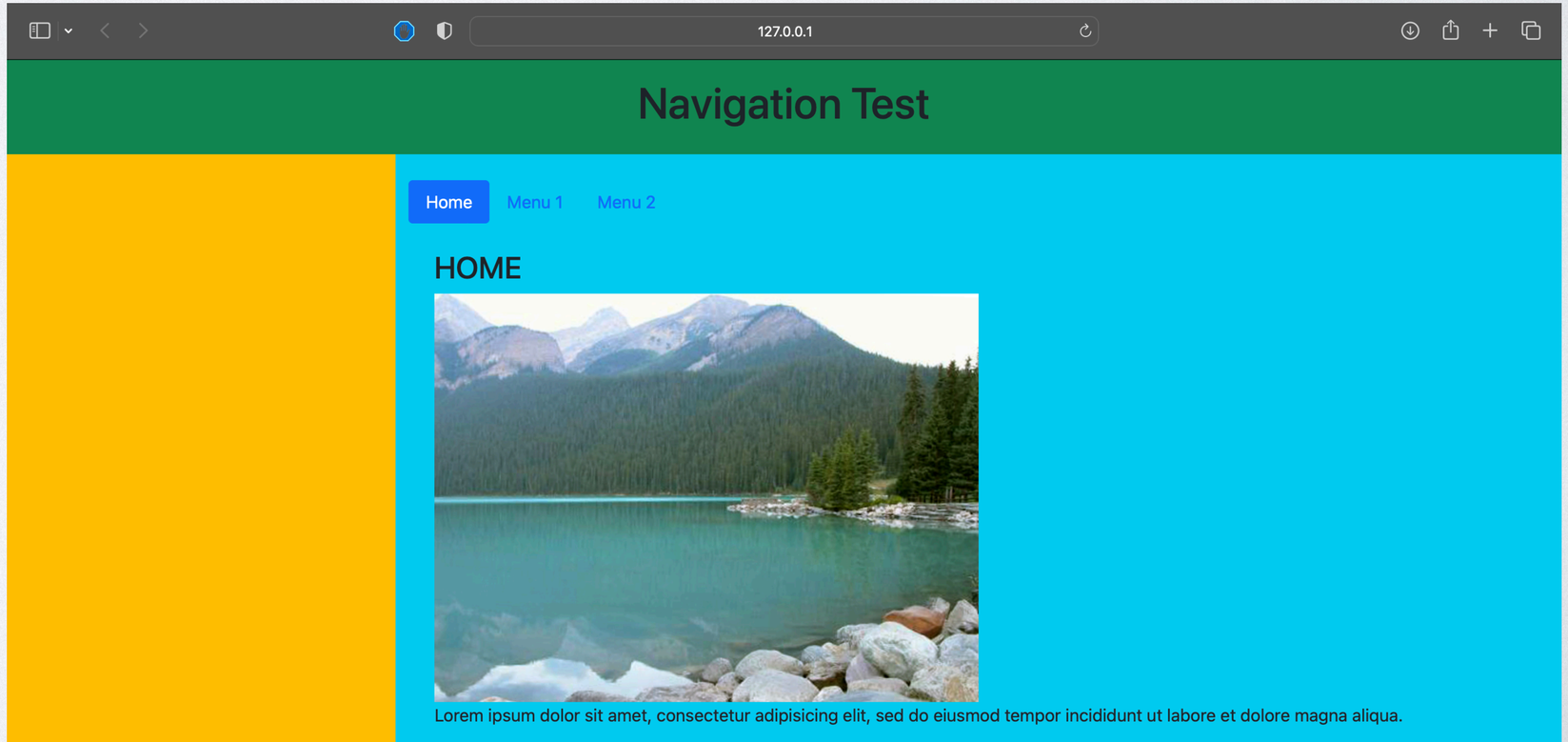
```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>
```



- Reference : navs

NAV TAB

- 利用前面所學的，並參考文件內容navs
- 搭配文件：5_navtab.html
- 練習做出以下畫面



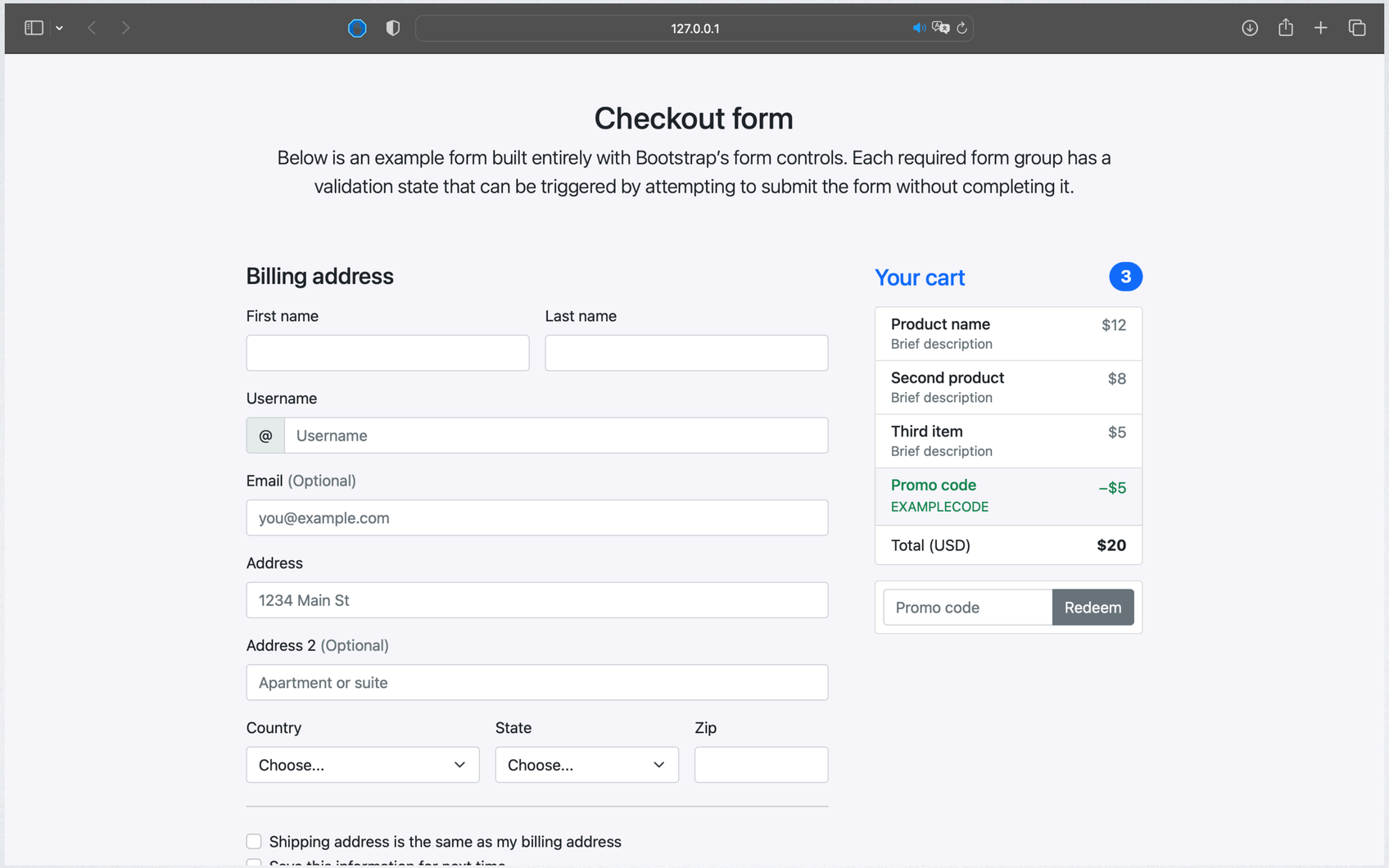
HOMEWORK

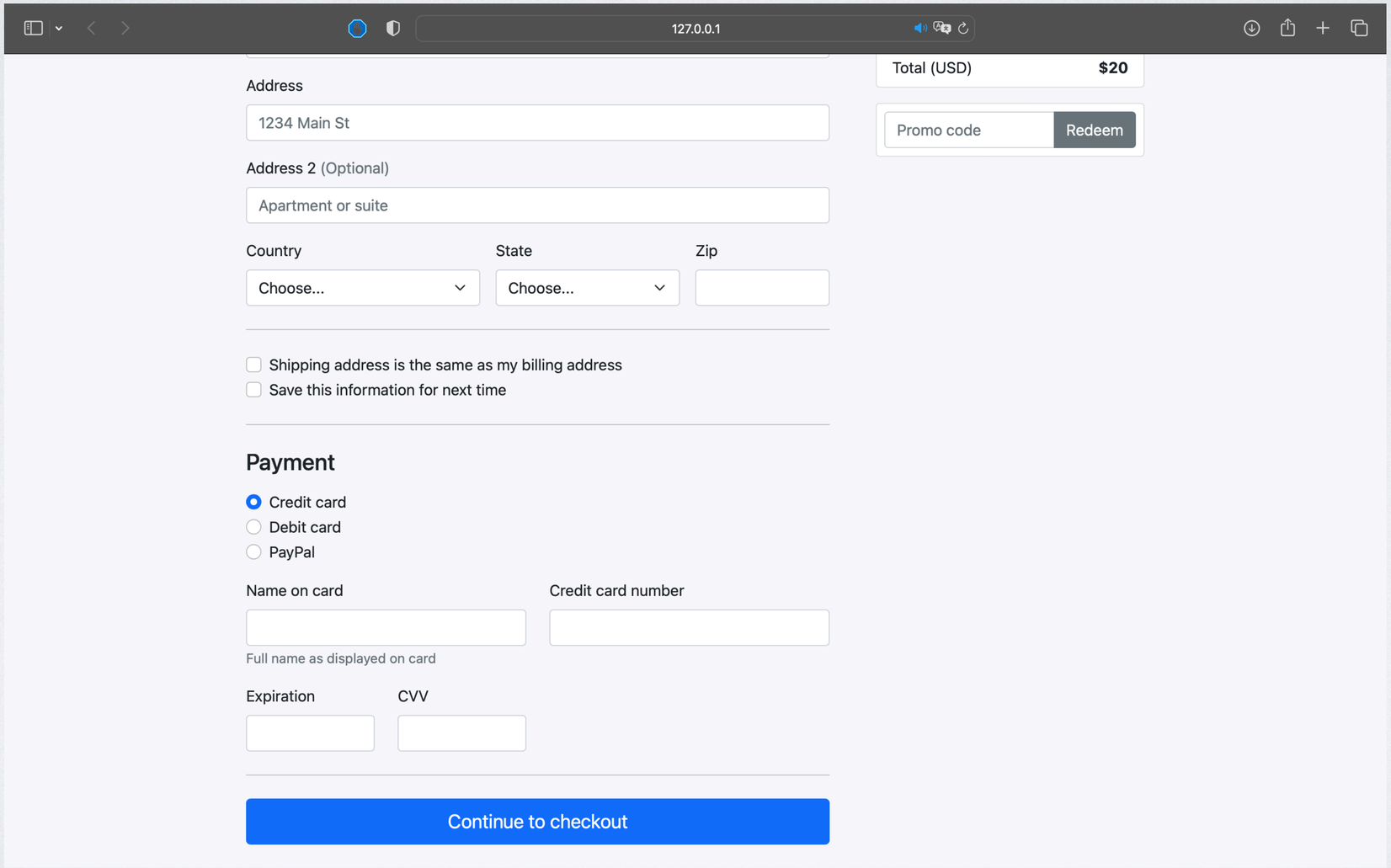
HOMEWORK 2

- 利用 Bootstrap5 製作一個**表單**頁面
    - 表單內必須包含
        - 文字框、下拉式選單、checkbox、radio、button

HOMEWORK 2

- 範例：



HOMEWORK 2

- 範例：