## Trường ĐH CNTP TP.HCM

Khoa: CNTT

Bộ môn: Khoa học máy tính

## THIẾT KẾ WEB

# BÀI 13 BOOTSTRAP



## A. MŲC TIÊU:

- Giới thiệu tổng quát về Bootstrap
- Cài đặt Bootstrap
- Sử dụng Grid System
- Sử dụng Component Button
- Sử dụng Component Card
- Sử dụng Component image

# B. NỘI DUNG THỰC HÀNH

## 1. Cơ sở lý thuyết

#### 1.1. Kiến thức cần nhớ

- Sử dụng bootstrap online

```
<!--Bootstrap 4-->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" />
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
```

Sử dụng Bootstrap offline

```
<!--Bootstrap offline-->
<link rel="stylesheet" href="css/bootstrap.min.css"/>
<script src="js/bootstrap.min.js"></script>
<script src="js/jquery.min.js"></script>
```

- Responsive Grid
  - + Extra small (xs) below 576px
  - + Small (sm) between 576px and 768px
  - + Medium (md) between 768px and 992px
  - + Large (lg) between 992px and 1200px
  - + Extra Large (xl) over 1200px
  - + Extra extra large (xxl) over 1400px
- Conponent Button: btn-primary, btn-secondary, btn-success, btn-danger, btn-warning, btn-info, btn-light, btn-dark, btn-link, outline-primary, btn-lg, btn-sm, btn-block
- Component Card: card-body, card-text, card-img-top, card-header, card-title, ...
- Component image: rounded, float, img-thumbnail,

# 1.2. Giới thiệu bài tập mẫu

#### Bài 0. Tạo trang Bai0.html như sau:



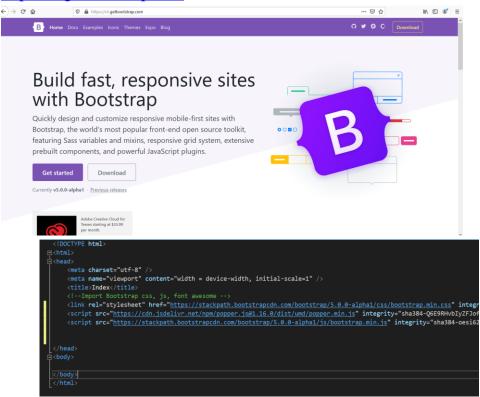
### Yêu cầu:

- Không sử dụng bootstrap
- Đưa ra nhận xét

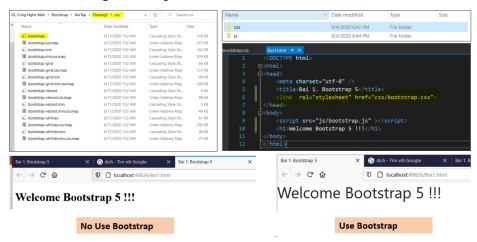
Bài 1: Cài đặt và sử dụng bootstrap

Cách 1: Sử dụng thư viện CDN

http://v5.getbootstrap.com



Cách 2: Tải về và dùng trực tiếp tại local



Bài 2: Tạo trang Bai2.html sử dụng Bootstrap offline như sau

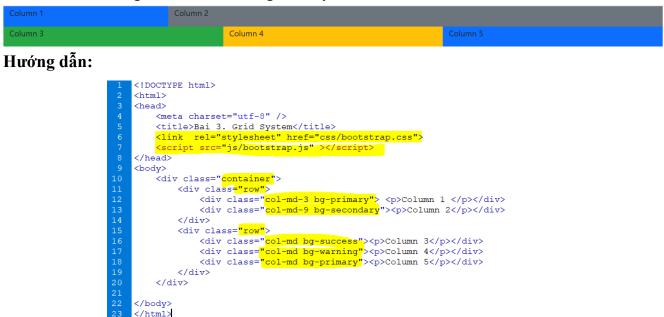


# Welcome Bootstrap 5 !!!

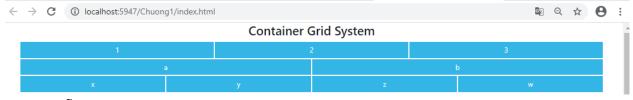
## Yêu cầu tổ chức web như sau:

```
<!DOCTYPE html>
-<html>
                                                                                                                                                                                                                                                                                      _ <head>
                            CSS
                                                                                                                                                                                                                                                                                                                             <meta charset="utf-8" />
                             image
                                                                                                                                                                                                                                                                                                                             <title>Bai 2. Bootstrap 5</title>
                                                                                                                                                                                                                                                                                                                           k rel="stylesheet" href="css/bootstrap.css">
                                                                                                                                                                                                                                                                                                  </head>
                              Bai1.html
                                                                                                                                                                                                                                                                                        - Section of the sec
                                Button.html
                                                                                                                                                                                                                                                                                                                             <script src="js/bootstrap.js" ></script>
                                                                                                                                                                                                                                                                                                                             <h1>Welcome Bootstrap 5 !!!</h1>
                                🔝 index.html
                                                                                                                                                                                                                                                                                                  </body>
                                Offset.html
                                                                                                                                                                                                                                                                                              </html>
                                 Web.config
```

Bài 3: Tạo trang Bai3.html sử dụng Grid system như sau:



Bài 4: Tạo trang Bai4.html sử dụng Grid system và Bootstrap online như sau:

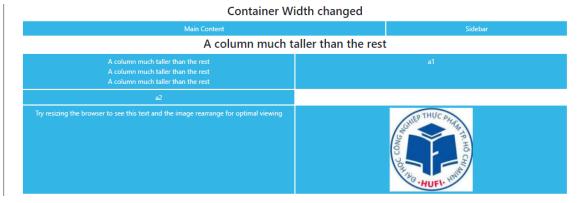


Hướng dẫn:

```
<!DOCTYPE html>
<meta charset="utf-8" />
<meta name="viewport" content="width = device-width, initial-scale=1" />
<title>Index</title>
       <!--Import Bootstrap css, js, font awesome -->
<li-Import Bootstrap css, js, font awesome -->
clink rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha1/css/bootstrap.min.css" integrity="sha384-r4NyP46KrjDleawBgD5tp8Y7UzmLA05o\
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMd
<script src="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha1/js/bootstrap.min.js" integrity="sha384-oesi62h0Lfzrys4LxRF630JCXdXDipiYwBnvTl9Y9/TRIw5xlkJ</pre>
             [class *="col"] {
                  padding:5px;
                  pauding:spX;
background-color:#33b5e5;
border:2px solid #fff;
color:#fff;
text-align:center;
              responsive {
  max-width:100%;
  height:auto;
       </style>
                                                        <body>
                                                                   <h3 align="center">Container Grid System</h3>
                                                                   <div class="container-md">
                                                                          <div class="row">
                                                                                  <div class="col-sm">1</div>
                                                                                  <div class="col-sm">2</div>
                                                                                  <div class="col-sm">3</div>
                                                                          </div>
                                                                          <div class="row">
                                                                                  <div class="col-sm">a</div>
                                                                                  <div class="col-sm">b</div>
                                                                          </div>
                                                                          <div class="row">
                                                                                  <div class="col-sm">x</div>
                                                                                   <div class="col-sm">y</div>
                                                                                  <div class="col-sm">z</div>
                                                                                  <div class="col-sm">w</div>
                                                                           </div>
                                                                   </div>
```

# 2. Bài tập tại lớp

Bài 5: Tạo trang Bai5.html sử dụng Grid system và Bootstrap online như sau:



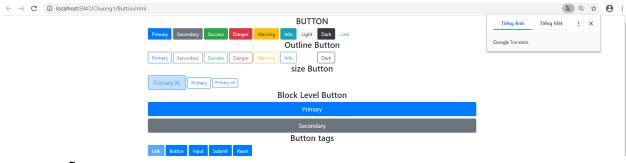
**Bài 6:** Tạo trang Bai6.html sử dụng Grid system và Bootstrap online + class offset như sau:



# Hướng dẫn:

```
<!DOCTYPE html>
 <html lang="en">
 <head>
     <meta charset="utf-8" />
     <meta name="viewport" content="width=device-width, initial-scale=1">
     <title>Offset</title>
     <!--Bootstrap 4-->
     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"/>
     <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"></script>
     <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
     <style>
         [class *="col"] {
padding: 5px;
            background-color: #33b5e5;
            border: 2px solid #fff;
            color: #fff;
            text-align: center;
        }
     </style>
 </head>
<body>
   <h3 align="center"> Offset </h3>
     <div class="container">
         <div class="row">
             <div class="col-md-4">col-md-4</div>
             <div class="col-md-4 offset-md-4">col-md-4 offset-md-4</div>
         </div>
         <div class="row">
             <div class="col-md-5">col-xs-5</div>
         </div>
         <div class="row">
             <div class="col-md-7">col-md-7</div>
             <div class="col-md-10">col-md-10</div>
             <div class="col-md-11 offset-md-1">col-md-11 offset-md-1</div>
             <div class="col-md-11 offset-md-1">col-md-11 offset-md-1</div>
             <div class="col-md-9 offset-md-2">col-md-9 offset-md-2</div>
             <div class="col-md-5 offset-md-4">col-xs-5 offset-md-4</div>
         </div>
     </div>
```

Bai 7: Tao trang Bai7.html sử dụng component Button và Bootstrap online như sau:



Hướng dẫn:

```
Button.html → ×
 <!DOCTYPE html>
□<html>
- dead>
     <meta charset="utf-8" />
     <meta name="viewport" content="width=device-width, initial-scale=1">
     <title>Button</title>
     <!--Bootstrap 4-->
     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" />
     <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"></script>
     <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
     <style>
         [class *="col"] {
             padding: 5px;
             background-color: #33b5e5;
             border: 2px solid #fff;
             color: #fff;
             text-align: center;
     </style>
 </head>
```

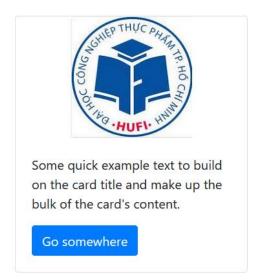
```
Bai1.html
             Button.html → X
   Ė<body>
        <h3 align="center"> BUTTON </h3>
        <div class="container">
            <button type="button" class="btn btn-primary">Primary</button>
            <button type="button" class="btn btn-secondary">Secondary
            <button type="button" class="btn btn-success">Success</button>
            <button type="button" class="btn btn-danger">Danger</button>
            <button type="button" class="btn btn-warning">Warning</button>
            <button type="button" class="btn btn-info">Info</button>
            <button type="button" class="btn btn-light">Light</putton>
            <button type="button" class="btn btn-dark">Dark</button>
            <button type="button" class="btn btn-link">Link</button>
        </div>
        <h3 align="center"> Outline Button </h3>
        <div class="container">
            <button type="button" class="btn btn-outline-primary">Primary/button>
            <button type="button" class="btn bth-outline-secondary">Secondary</button>
            <button type="button" class="btn btn-outline-success">Success</button>
            <button type="button" class="btn btn-outline-danger">Danger</button>
            <button type="button" class="btn btn-outline-warning">Warning</button>
            <button type="button" class="btn btn-outline-info">Info</button>
            <button type="button" class="btn btn-outline-light">Light/button>
            <button type="button" class="btn btn-outline-dark">Dark/button>
        </div>
        <h3 align="center"> size Button </h3>
        <div class="container">
            <button type="button" class="btn btn-outline-primary btn-lg">Primary XL</button>
            <button type="button" class="btn btn-outline-primary ">Primary</button>
            <button type="button" class="btn btn-outline-primary btn-sm">Primary sm</button>
        <h3 align="center"> Block Level Button </h3>
        <div class="container">
            <button type="button" class="btn btn-primary btn-lg btn-block">Primary </button>
            <button type="button" class="btn btn-secondary btn-lg btn-block ">Secondary</button>
        </div>
                           _ ..
         <h3 align="center"> Button tags</h3>
         <div class="container">
             <a class="btn btn-primary disabled" href="#" role="button">Link</a>
             <button class="btn btn-primary" type="submit">Button</button>
             <input class="btn btn-primary" type="button" value="Input">
             <input class="btn btn-primary" type="submit" value="Submit">
             <input class="btn btn-primary" type="reset" value="Reset">
         </div>
```

Bai 8: Tạo trang Bai8.html sử dụng component Card và Bootstrap online như sau:

# Card title Card subtitle Some quick example text to build on the card title and make up the bulk of the card's content. Card link Another link

## Hướng dẫn:

Bai 9: Tạo trang Bai9.html sử dụng component Card và Bootstrap online như sau:



# Hướng dẫn:

Bài 10: Tạo trang Bai10.html sử dụng component Card và Bootstrap online như sau:

Featured
Special title treatment
With supporting text below as a natural lead-in to additional content.
Go somewhere
2 days ago

## Hướng dẫn:

Sử dụng

class="card-header"

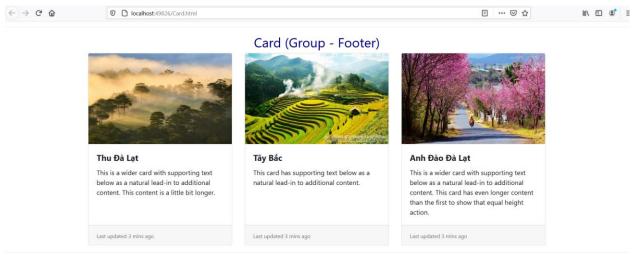
class="card-footer text-muted"

Bài 11: Tạo trang Bai 11. html sử dụng component - Card và Bootstrap online như sau:

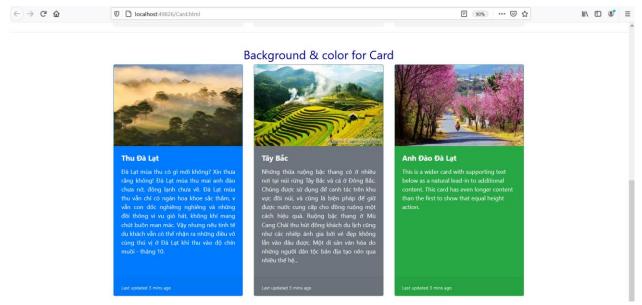


**Bài 12:** Tạo trang Bai12.html sử dụng component - Card group & card footer và Bootstrap online như sau:

**Hướng dẫn:** sử dụng các class: container, row, col, card, card-body, card-title, card-text, card, card-footer, text-muted



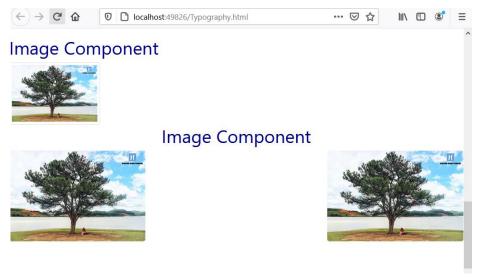
**Bài 14:** Tạo trang Bai14.html sử dụng component - Card group & card footer và Bootstrap online như sau:



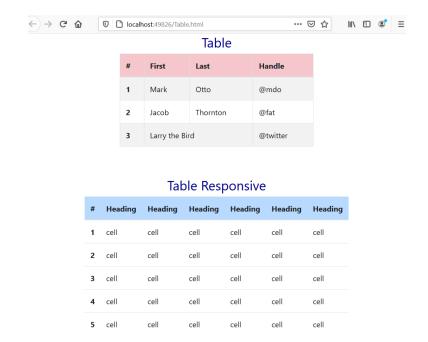
**Hướng dẫn:** sử dụng các class: container, row, col, card, card-body, card-title, card-text, card, card-footer, text-white, bg-primary, bg-secondary, bg-success, bg-danger, bg-warning, bg-info, bg-light, bg-dark,...

# 3. Bài tập về nhà

**Bài 15:** Tạo trang Bai15.html sử dụng component - Responsive Image và Bootstrap online như sau:



**Bài 16:** Tạo trang Bai16.html sử dụng Component - Table responsive và Bootstrap online như sau:



Thử resize WebBrowser để thấy hiệu quả của table responsive