

Trường: ĐH Công Thương TP.HCM
Khoa: Công nghệ thông tin
Bộ môn: Kỹ thuật phần mềm
Môn học: Thiết kế web

BÀI 8

BOOTSTRAP



A. MỤC TIÊU:

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

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

- Component 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,
- Component Carousel: carousel, carousel-item, carousel-control-prev, carousel-control-next, carousel-control-prev-icon, ...

Sử dụng các lớp

carousel-inner, carousel-item active, carousel-item → tạo khung trong và các mục trong carousel

Carousel-control-prev, carousel-control-prev-icon, carousel-control-next, carousel-control-next-icon → tạo các control previous và control next trong carousel

B1: Tạo carousel-inner

- gồm các carousel-item1, carousel-item2, carousel-item3,

B2: Sử dụng thẻ <a> hoặc control Hyperlink

- Tạo Link Prev và Link Next

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>

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width = device-width, initial-scale=1" />
    <title>Index</title>
    <!--Import Bootstrap css, js, font awesome -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha1/css/bootstrap.min.css" integrity="sha384-Q6E9RhbIyZfJof" integrity="sha384-oesi62
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RhbIyZfJof" integrity="sha384-oesi62
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha1/js/bootstrap.min.js" integrity="sha384-Q6E9RhbIyZfJof" integrity="sha384-oesi62
  </head>
  <body>
  </body>
</html>

```

Cách 2: Tải về và dùng trực tiếp tại local

The screenshot shows a file structure and two code snippets side-by-side.

No Use Bootstrap: A file tree under 'D:\Cong Nghe Web\Bootstrap\BaiTap\Chuong1\css' showing numerous Bootstrap CSS files like bootstrap.css, bootstrap.min.css, etc., and their corresponding map files.

Use Bootstrap: A code editor showing the contents of 'Bai1.html'. It includes the DOCTYPE, HTML, head (meta charset, title, link to bootstrap.css), body (script to bootstrap.js, h1 'Welcome Bootstrap 5 !!!'), and end HTML tags.

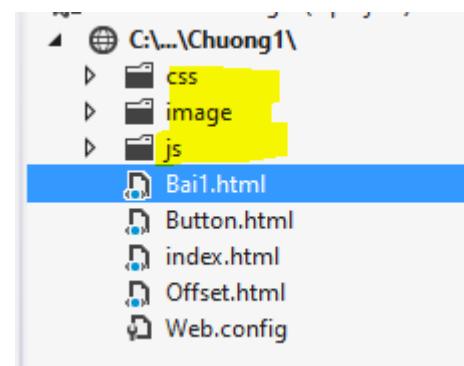
Browsing Results: Two browser tabs are shown. The left one ('Bai 1. Bootstrap 5') shows the page 'Welcome Bootstrap 5 !!!' with the 'No Use Bootstrap' button. The right one ('Bai 1. Bootstrap 5') shows the same page with the 'Use Bootstrap' button.

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

localhost:5947/Chuong1/Bai1.html

Welcome Bootstrap 5 !!!

Yêu cầu tóm tắt chức web như sau:



```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>Bai 2. Bootstrap 5</title>
    <link rel="stylesheet" href="css/bootstrap.css">
  </head>
  <body>
    <script src="js/bootstrap.js" ></script>
    <h1>Welcome Bootstrap 5 !!!</h1>
  </body>
</html>

```

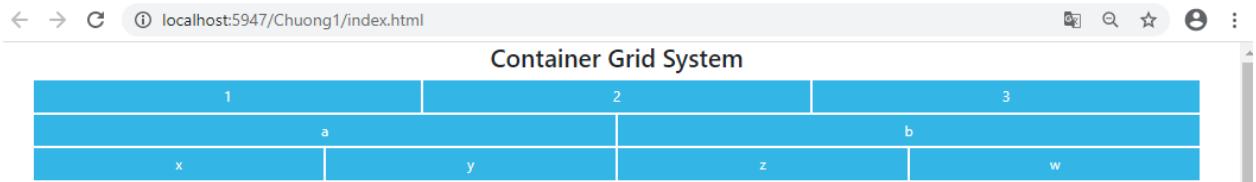
Bài 3: Tạo trang Bai3.html sử dụng Grid system như sau:

Column 1	Column 2	Column 3	Column 4	Column 5

Hướng dẫn:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <meta charset="utf-8" />
5     <title>Bai 3. Grid System</title>
6     <link rel="stylesheet" href="css/bootstrap.css">
7     <script src="js/bootstrap.js" ></script>
8 </head>
9 <body>
10    <div class="container">
11        <div class="row">
12            <div class="col-md-3 bg-primary"> <p>Column 1 </p></div>
13            <div class="col-md-9 bg-secondary"><p>Column 2</p></div>
14        </div>
15        <div class="row">
16            <div class="col-md bg-success"><p>Column 3</p></div>
17            <div class="col-md bg-warning"><p>Column 4</p></div>
18            <div class="col-md bg-primary"><p>Column 5</p></div>
19        </div>
20    </div>
21 </body>
22 </html>
```

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



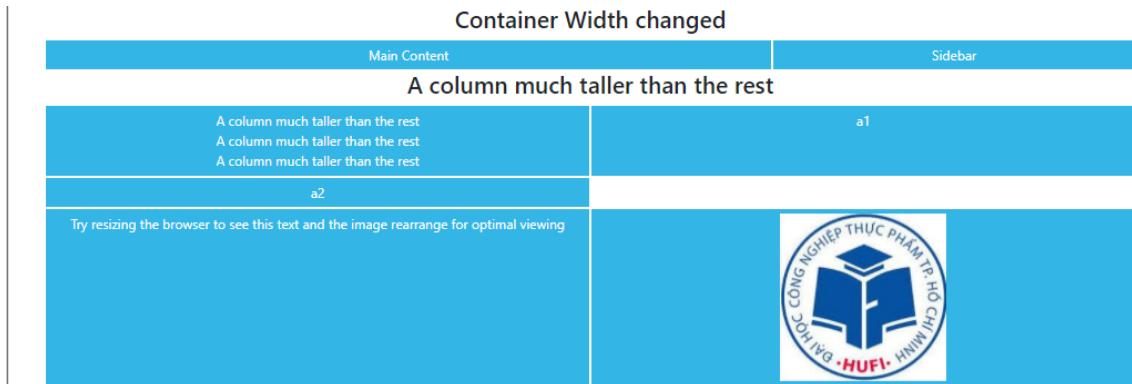
Hướng dẫn:

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width = device-width, initial-scale=1" />
    <title>Index</title>
    <!--Import Bootstrap css, js, font awesome -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha1/css/bootstrap.min.css" integrity="sha384-r4NyP46KrzDleawBgD5Tp8Y7UzmLA05oF" type="text/css"/>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOY5n3zV9zzTtmI3UksdQRVvoxMf" type="text/javascript"/>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha1/js/bootstrap.min.js" integrity="sha384-oesi62h0L fzrys4LxRF630JCxdX DipiYW BnvTl9Y9/T Rl w5x1K" type="text/javascript"/>
<style>
    [class *= "col"] {
        padding:5px;
        background-color:#33b5e5;
        border:2px solid #fff;
        color:#fff;
        text-align:center;
    }
    .responsive {
        max-width:100%;
        height:auto;
    }
</style>

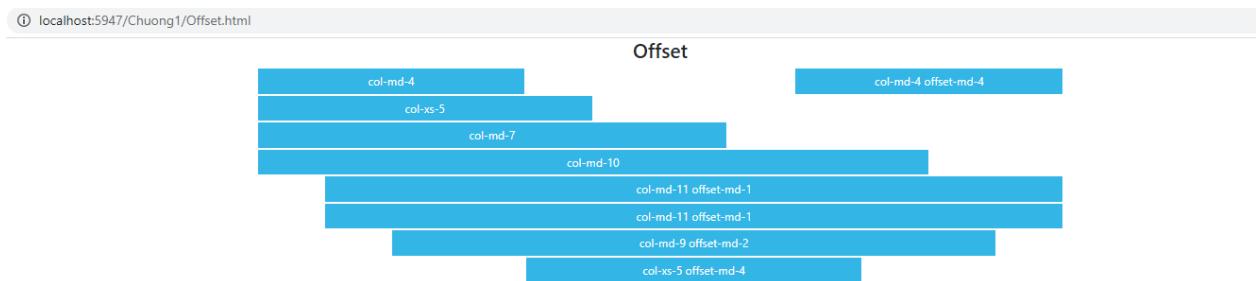
<body>
    <h3 align="center">Container Grid System</h3>
    <div class="container-md">
        <div class="row">
            <div class="col-sm">1</div>
            <div class="col-sm">2</div>
            <div class="col-sm">3</div>
        </div>
        <div class="row">
            <div class="col-sm">a</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>
</body>
```

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>
```

```

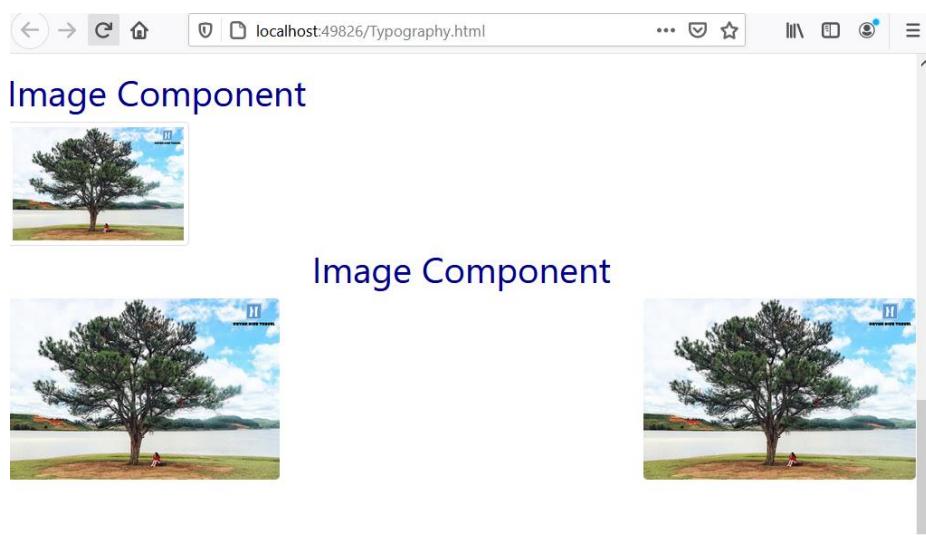
<body>
    <h3 align="center"> Offset </h3>
    <div class="container">
        <div class="row">
            <div class="col-md-4">col-md-4</div>
            <div class="col-md-4 offset-md-4">col-md-4 offset-md-4</div>
        </div>
        <div class="row">
            <div class="col-md-5">col-xs-5</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>
    <a class="carousel-control-prev" href="#carouselExampleControls" role="button" data-slide="prev">
        <span class="carousel-control-prev-icon" aria-hidden="true"></span>
        <span class="sr-only">Previous</span>
    </a>
    <a class="carousel-control-next" href="#carouselExampleControls" role="button" data-slide="next">
        <span class="carousel-control-next-icon" aria-hidden="true"></span>
        <span class="sr-only">Next</span>
    </a>
</div>

```

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3. Bài tập về nhà

Bài 7: Tạo trang Bai7.html sử dụng component - Responsive Image và Bootstrap online như sau:



Yêu cầu: sử dụng các lớp: .rounded, .rounded-circle, .img-thumbnail, .float-start, .float-end, .img-fluid,