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|--|---|--|
| Trường: ĐH Công Thương TP.HCM Khoa: Công nghệ thông tin Bộ môn: Kỹ thuật phần mềm Môn học: Thiết kế web | <h1 style="text-align: center;">BÀI 8</h1> <h2 style="text-align: center;">BOOTSTRAP</h2> | |
|--|---|--|

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:



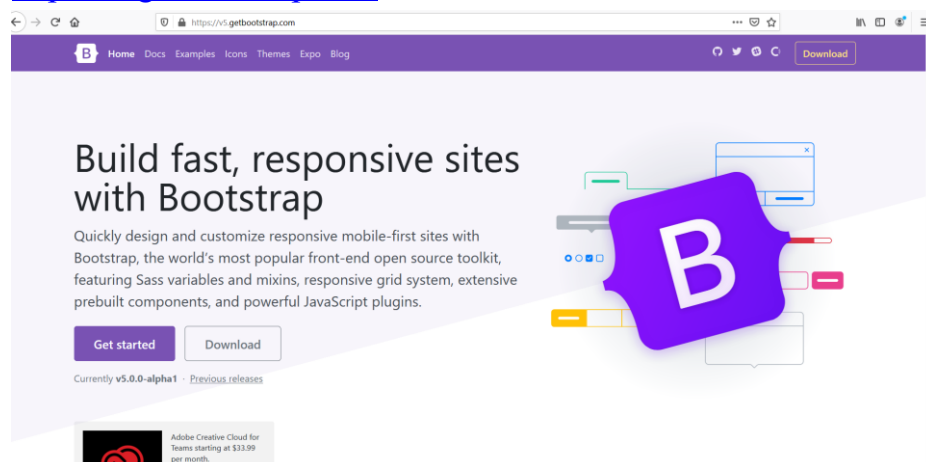
Yêu cầu:

- 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-Q6E9RHvIyZFJof" />
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvIyZFJof" />
<script src="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha1/js/bootstrap.min.js" integrity="sha384-Q6E9RHvIyZFJof" />
</head>
<body>
</body>
</html>

```

Cách 2: Tải về và dùng trực tiếp tại local

The screenshot shows a file explorer with the following files:

| Name | Date modified | Type | Size |
|------|------------------|-------------|------|
| css | 9/4/2020 6:42 PM | File folder | |
| js | 9/4/2020 6:44 PM | File folder | |

The code editor shows the following HTML file:

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8" />
5   <title>Bai 1. Bootstrap 5</title>
6   <link rel="stylesheet" href="css/bootstrap.css">
7 </head>
8 <body>
9   <script src="js/bootstrap.js"></script>
10  <h1>Welcome Bootstrap 5 !!!</h1>
11 </body>
12 </html>

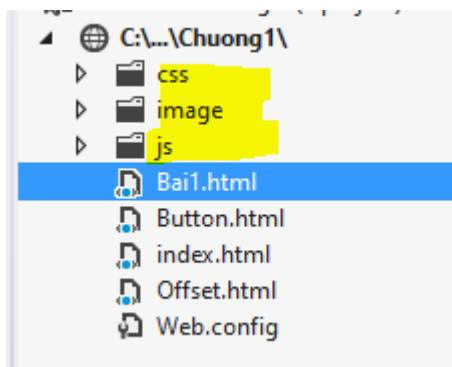
```

The browser screenshots show the result of the local setup. The left browser shows "Welcome Bootstrap 5 !!!" with the text "No Use Bootstrap". The right browser shows "Welcome Bootstrap 5 !!!" with the text "Use Bootstrap".

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

The screenshot shows a web browser with the URL `localhost:5947/Chuong1/Bai1.html` and the text "Welcome Bootstrap 5 !!!".

Yêu cầu tổ 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>

```

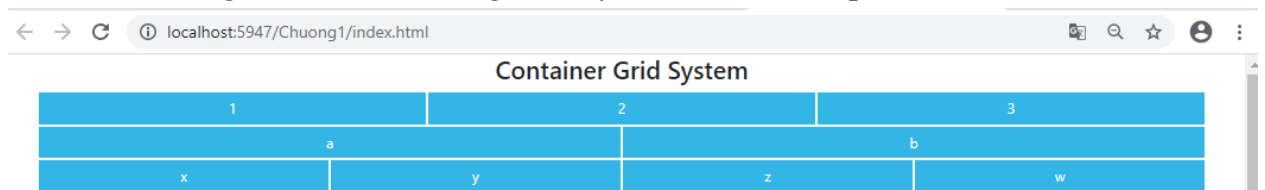
Bài 3: Tạo trang Bai3.html sử dụng Grid system như sau:

| | | | | |
|----------|----------|----------|--|--|
| 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
22 </body>
23 </html>
```

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



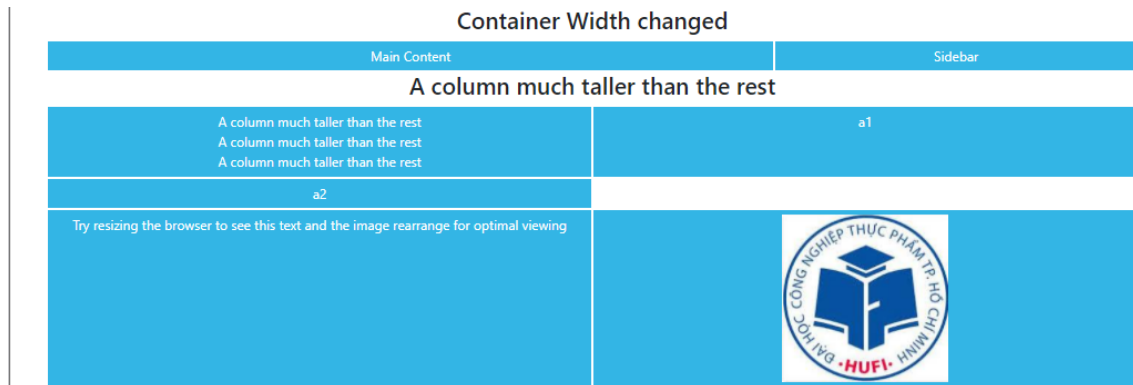
Hướng dẫn:

```
<!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-r4NyP46KrJd1eaw8gD5tp8Y7UzmLA05o" />
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbiIyZf3oft+2m7bHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxM" />
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha1/js/bootstrap.min.js" integrity="sha384-oes162h0Lfzrys4LxRF630JCXdxDipiYwBnV19Y9/TR1w5x1KJ" />
  <style>
    [class*="col"] {
      padding: 5px;
      background-color: #33b5e5;
      border: 2px solid #fff;
      color: #fff;
      text-align: center;
    }
    .responsive {
      max-width: 100%;
      height: auto;
    }
  </style>
```

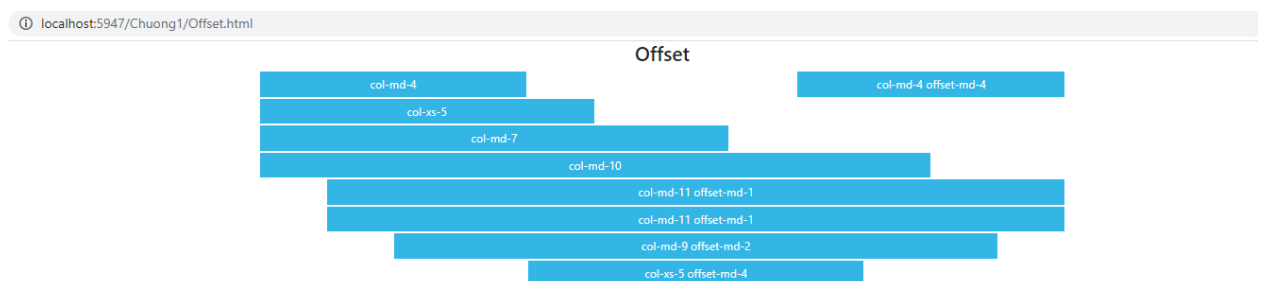
```
<body>
  <h3 align="center">Container Grid System</h3>
  <div class="container-md">
    <div class="row">
      <div class="col-sm">1</div>
      <div class="col-sm">2</div>
      <div class="col-sm">3</div>
    </div>
    <div class="row">
      <div class="col-sm">a</div>
      <div class="col-sm">b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

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>
```

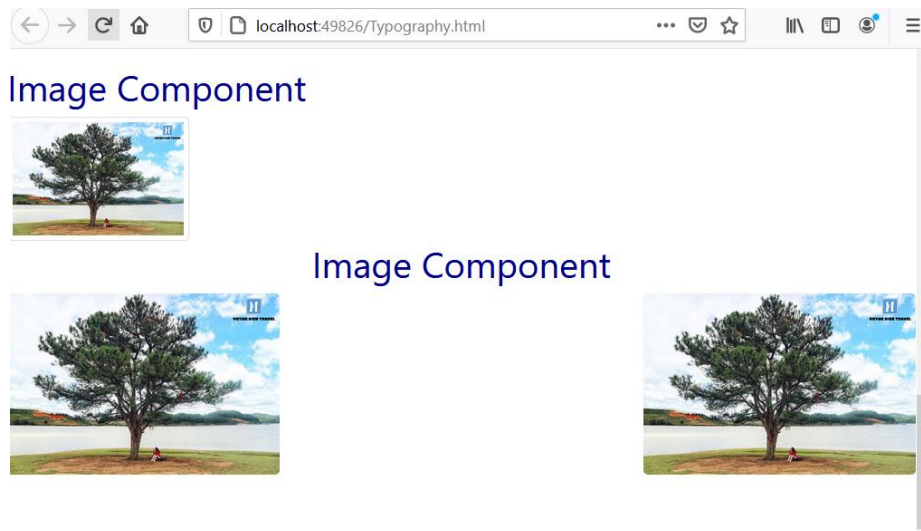
```

<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>
  <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>

```

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,