

# PEMROGRAMAN WEB

**Pertemuan 4 – Framework Bootstrap**

**Oleh:**

**Yudhi Raymond Ramadhan, M.Kom.**

# APA ITU FRAMEWORK?

- ▶ Framework dalam bahasa indonesia artinya kerangka kerja. Kerangka kerja untuk membuat sesuatu (web).
- ▶ Framework merupakan suatu kumpulan kode berupa pustaka (library) dan alat (tool) yang dipadukan sedemikian rupa menjadi satu kerangka kerja (framework) guna memudahkan dan mempercepat proses pengembangan sistem berbasis web.

# BEKERJA DENGAN FRAMEWORK

- ▶ Pekerjaan menjadi lebih cepat dan mudah karena memiliki kerangka kerja dalam membangun sebuah software
- ▶ Memiliki standar dan struktur aplikasi yang terorganisir, sehingga bisa digunakan dalam kerja tim
- ▶ Memiliki Tools dan library yang bisa digunakan, sehingga tidak perlu membuat dari awal
- ▶ Semua bahasa pemrograman popular memiliki framework, sehingga dukungan dari kumunitas programming lebih banyak

# FRAMEWORK CSS & JS : BOOTSTRAP 5

Bootstrap merupakan salah satu framework CSS dan Javascript yang bisa kita gunakan untuk membangun website kita.

Pada saat ini versi Bootstrap sudah sampai versi 5. untuk mendapatkanya kita bisa mendownload dengan gratis pada website:

<https://getbootstrap.com>

Untuk referensi dokumentasi pada:

<https://getbootstrap.com/docs/5.2/getting-started/introduction/>

# CARA MENGGUNAKAN BOOTSTRAP

Untuk menggunakan bootstrap bisa secara online atau bisa dengan mendownload source code bootstrap-nya.

Untuk cara online kita sisipkan kode berikut pada blok **<HEAD>**

**Untuk CSS:**

```
<link  
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css">
```

**Untuk JavaScript:**

```
<script  
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"></script>
```

# CARA MENGGUNAKAN BOOTSTRAP

Untuk cara offline kita sisipkan kode berikut pada blok **<HEAD>**. Pada contoh dibawah ini saya menyimpan file-file bootstrap di pada folder BS5 dalam *working directory* kita

**Untuk CSS:**

```
<link href="BS5/css/bootstrap.min.css" >
```

**Untuk JavaScript:**

```
<script src="BS5/js/bootstrap.bundle.min.js">  
</script>
```

# MARGIN AND PADDING

Property yang digunakan adalah:

- ▶ **m** – untuk class margin
- ▶ **p** – untuk class padding

Sisi yang disetting :

- ▶ **t** – Untuk setting margin-top atau padding-top
- ▶ **b** – Untuk setting margin-bottom or padding-bottom
- ▶ **s** - (start) – Untuk setting margin-left or padding-left in LTR, margin-right or padding-right in RTL
- ▶ **e** - (end) – Untuk setting margin-right or padding-right in LTR, margin-left or padding-left in RTL
- ▶ **x** – Untuk setting sisi kiri dan kanan (\*-left dan \*-right)
- ▶ **y** – Untuk setting sisi atas dan bawah (\*-top and \*-bottom)
- ▶ **blank** – Untuk setting keempat sisi

# MARGIN AND PADDING

Ukurannya adalah :

- ▶ 0 – untuk tidak menggunakan margin atau padding.
- ▶ 1 - (by default) \$spacer \* .25
- ▶ 2 - (by default) \$spacer \* .5
- ▶ 3 - (by default) \$spacer
- ▶ 4 - (by default) \$spacer \* 1.5
- ▶ 5 - (by default) \$spacer \* 3
- ▶ auto - for classes that set the margin to auto

# COLORS

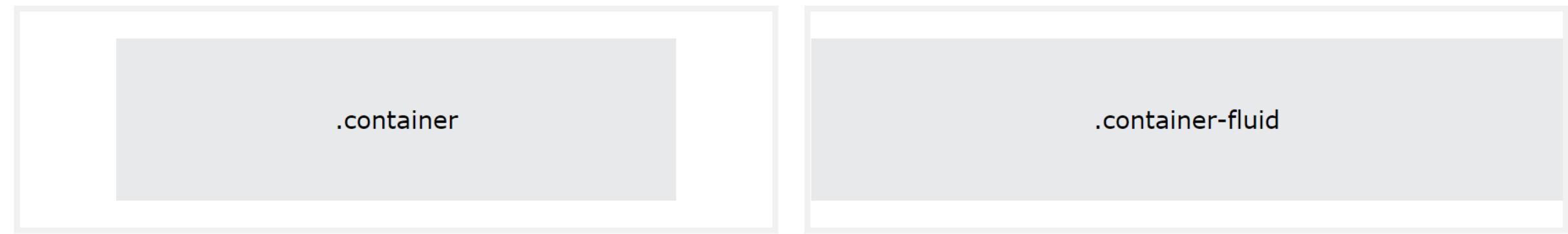


```
<div class="bg-primary p-3"></div>
<div class="bg-success p-3"></div>
<div class="bg-info p-3"></div>
<div class="bg-warning p-3"></div>
<div class="bg-danger p-3"></div>
<div class="bg-secondary p-3"></div>
<div class="bg-dark p-3"></div>
<div class="bg-light p-3"></div>
```

# CONTAINER

Containers are used to pad the content inside of them, and there are two container classes available:

1. The `.container` class provides a responsive **fixed width container**
2. The `.container-fluid` class provides a **full width container**, spanning the entire width of the viewport



# CONTAINER

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width,
7     initial-scale=1">
8   <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
9   <script src="BS5/js/bootstrap.bundle.min.js"></script>
10 </head>
11 <body>
12   <div class="container p-5 my-5 bg-info">
13     <h1>ini menggunakan class container</h1>
14     <p>Resize the browser window to see that the container width
15       will change at different breakpoints.</p>
16   </div>
17   <div class="container-fluid p-5 my-5 bg-warning">
18     <h1>ini menggunakan class container-fluid</h1>
19     <p>Resize the browser window to see that the container width
20       will change at different breakpoints.</p>
21   </div>
22 </body>
23 </html>
```

# CONTAINER

## ini menggunakan class container

Resize the browser window to see that the container width will change at different breakpoints.

## ini menggunakan class container-fluid

Resize the browser window to see that the container width will change at different breakpoints.

# BOOTSTRAP 5 GRIDS SYSTEM

Bootstrap's grid system is built with flexbox and allows up to 12 columns across the page.

If you do not want to use all 12 columns individually, you can group the columns together to create wider columns:

|         |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| span 1  | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 |  |  |  |  |
| span 4  |        |        |        | span 4 |        |        |        | span 4 |        |        |        |  |  |  |  |
| span 4  |        |        |        | span 8 |        |        |        |        |        |        |        |  |  |  |  |
| span 6  |        |        |        |        |        | span 6 |        |        |        |        |        |  |  |  |  |
| span 12 |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |

The grid system is responsive, and the columns will re-arrange automatically depending on the screen size.

Make sure that the sum adds up to 12 or fewer (it is not required that you use all 12 available columns).

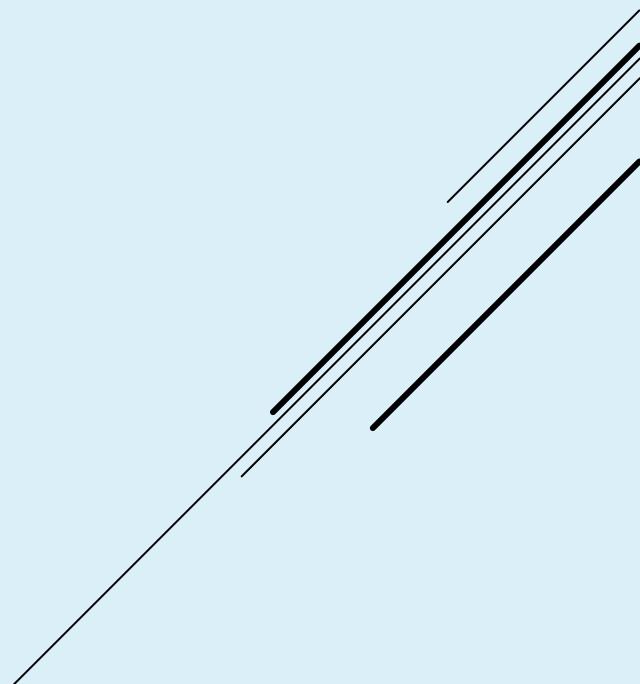
# BOOTSTRAP 5 GRIDS SYSTEM

## Basic Structure of a Bootstrap 5 Grid

The following is a basic structure of a Bootstrap 5 grid:

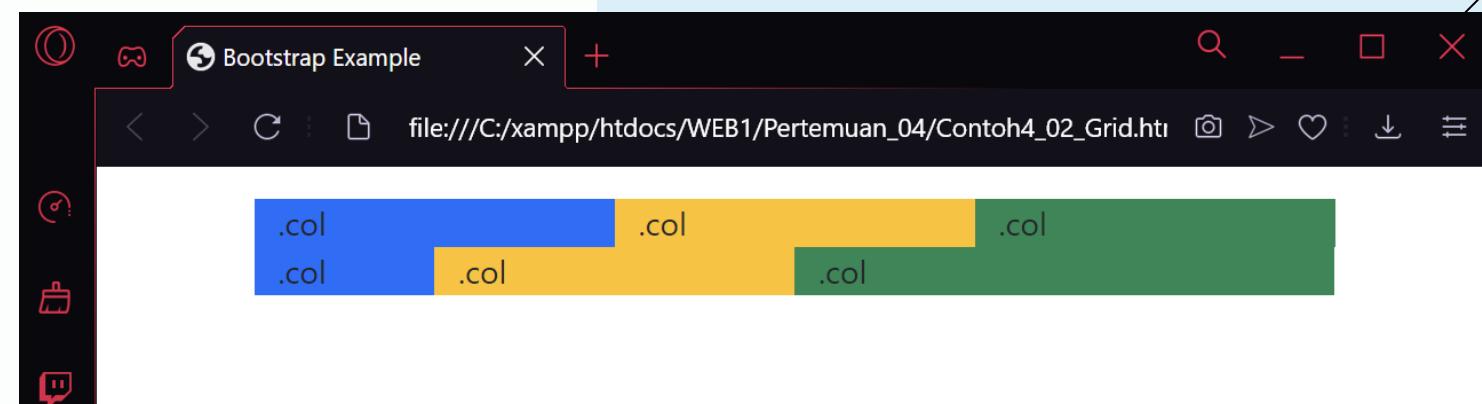
```
<!-- Control the column width, and how they should appear on different devices -->
<div class="row">
  <div class="col-*-*"></div>
  <div class="col-*-*"></div>
</div>
<div class="row">
  <div class="col-*-*"></div>
  <div class="col-*-*"></div>
  <div class="col-*-*"></div>
</div>

<!-- Or let Bootstrap automatically handle the layout -->
<div class="row">
  <div class="col"></div>
  <div class="col"></div>
  <div class="col"></div>
</div>
```



# BOOTSTRAP 5 GRIDS SYSTEM

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title>Bootstrap Example</title>
5      <meta charset="utf-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7      <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8      <script src="BS5/js/bootstrap.bundle.min.js"></script>
9  </head>
10 <body>
11 <div class="container mt-3">
12     <div class="row">
13         <div class="col bg-primary">.col</div>
14         <div class="col bg-warning">.col</div>
15         <div class="col bg-success">.col</div>
16     </div>
17     <div class="row">
18         <div class="col-2 bg-primary">.col</div>
19         <div class="col-4 bg-warning">.col</div>
20         <div class="col-6 bg-success">.col</div>
21     </div>
22 </div>
23
24 </body>
25 </html>
```



# BOOTSTRAP 5 TABLES

Berikut ini class table yang bisa digunakan untuk style table pada bootstrap:

- ▶ .table
- ▶ .table-bordered
- ▶ .table-striped
- ▶ .table-hover
- ▶ .table-dark
- ▶ .table-borderless

# BOOTSTRAP 5 TABLES

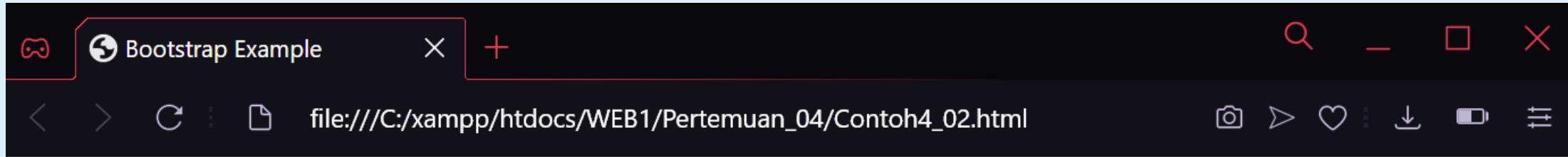
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8   <script src="BS5/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11 <div class="container mt-3">
12   <h2>Bordered Table</h2>
13   <p>The .table-bordered class adds borders on all sides of the table
and the cells:</p>
```

# BOOTSTRAP 5 TABLES

```
Contoh4_02.html x
14 <table class="table table-bordered">
15   <thead>
16     <tr>
17       <th>Firstname</th>
18       <th>Lastname</th>
19       <th>Email</th>
20     </tr>
21   </thead>
22   <tbody>
23     <tr>
24       <td>John</td>
25       <td>Doe</td>
26       <td>john@example.com</td>
27     </tr>
28     <tr>
29       <td>Mary</td>
30       <td>Moe</td>
31       <td>mary@example.com</td>
32     </tr>
```

```
32   </tr>
33   <tr>
34     <td>July</td>
35     <td>Dooley</td>
36     <td>july@example.com</td>
37   </tr>
38 </tbody>
39 </table>
40 </div>
41
42 </body>
43 </html>
```

# BOOTSTRAP 5 TABLES



## Bordered Table

The `.table-bordered` class adds borders on all sides of the table and the cells:

| Firstname | Lastname | Email            |
|-----------|----------|------------------|
| John      | Doe      | john@example.com |
| Mary      | Moe      | mary@example.com |
| July      | Dooley   | july@example.com |

# BUTTON STYLES

Bootstrap 5 provides different styles of buttons:

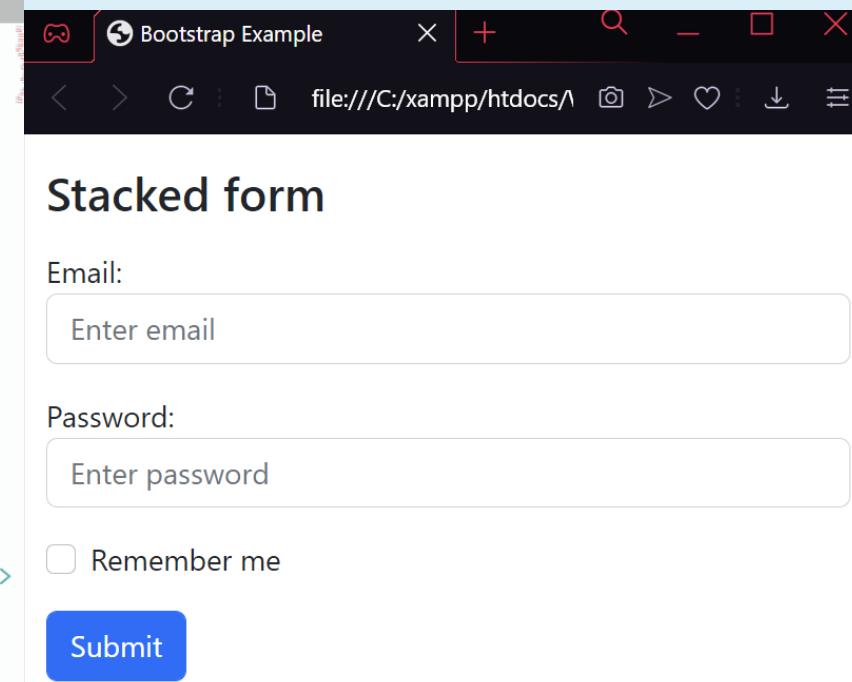
Basic   **Primary**   Secondary   Success   Info   Warning   Danger   Dark   Light   [Link](#)

```
<button type="button" class="btn">Basic</button>
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-dark">Dark</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-link">Link</button>
```

# BOOTSTRAP 5 FORM

From pada bootstrap menggunakan class **.form-control**

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8   <script src="BS5/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11 <div class="container mt-3">
12   <h2>Stacked form</h2>
13   <form action="#">
14     <div class="mb-3 mt-3">
15       <label for="email">Email:</label>
16       <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
17     </div>
18     <div class="mb-3">
19       <label for="pwd">Password:</label>
20       <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pswd">
21     </div>
22     <div class="form-check mb-3">
23       <label class="form-check-label">
24         <input class="form-check-input" type="checkbox" name="remember"> Remember me
25       </label>
26     </div>
27     <button type="submit" class="btn btn-primary">Submit</button>
28   </form>
29 </div>
30 </body>
31 </html>
```



Stacked form

Email:

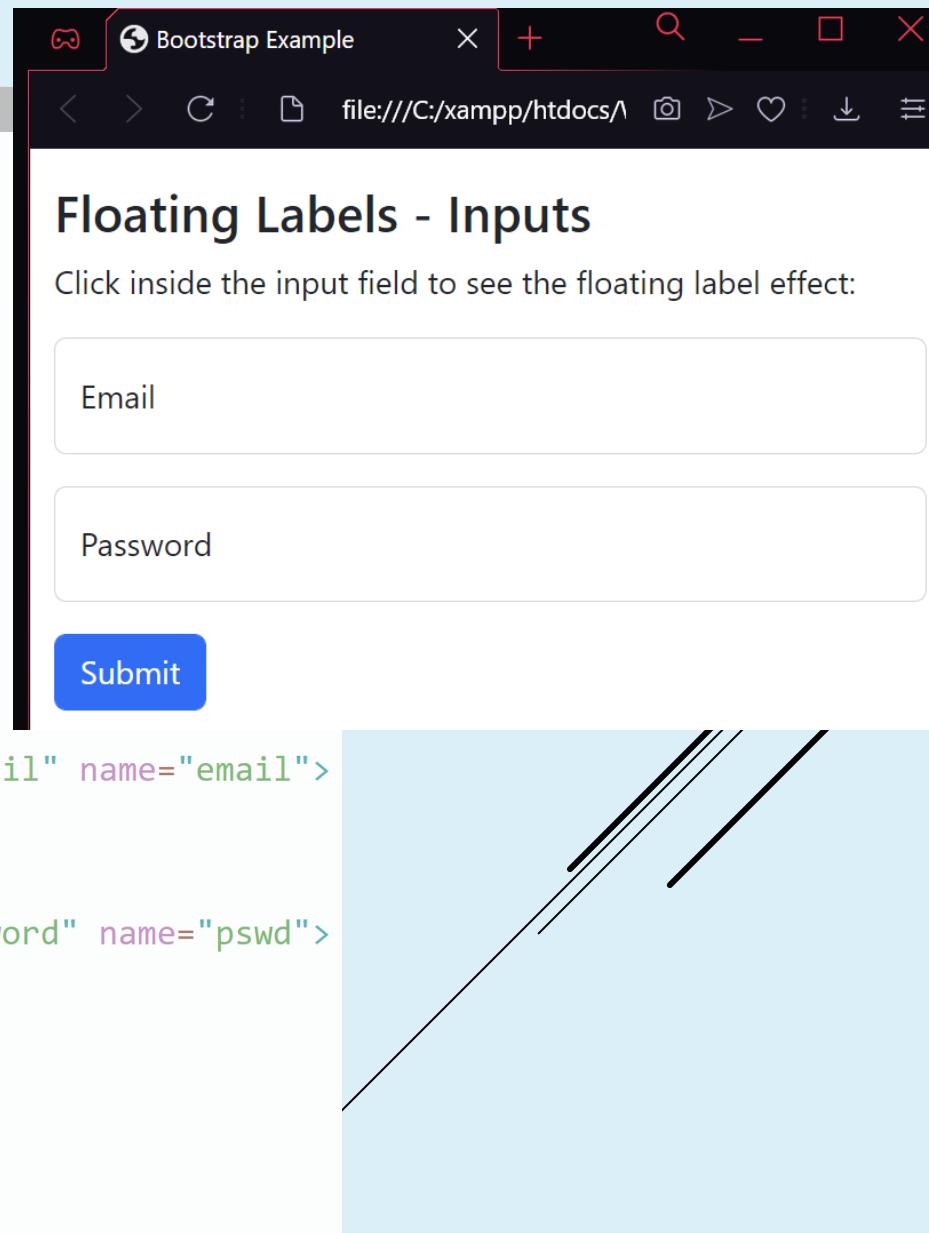
Password:

Remember me

Submit

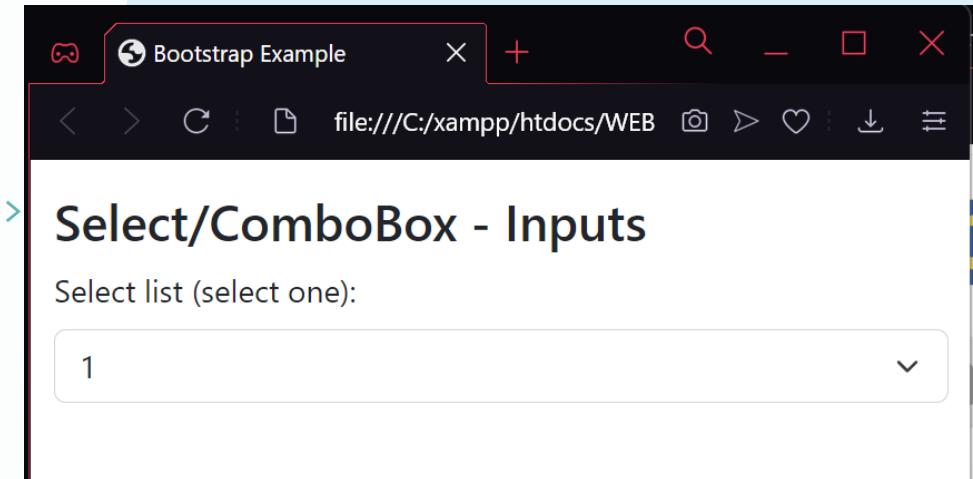
# FORM FLOATING LABELS

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title>Bootstrap Example</title>
5      <meta charset="utf-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7      <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8      <script src="BS5/js/bootstrap.bundle.min.js"></script>
9  </head>
10 <body>
11 <div class="container mt-3">
12     <h2>Floating Labels - Inputs</h2>
13     <p>Click inside the input field to see the floating label effect:</p>
14     <form action="#">
15         <div class="form-floating mb-3 mt-3">
16             <input type="text" class="form-control" id="email" placeholder="Email address">
17             <label for="email">Email</label>
18         </div>
19         <div class="form-floating mt-3 mb-3">
20             <input type="text" class="form-control" id="pwd" placeholder="Enter password">
21             <label for="pwd">Password</label>
22         </div>
23         <button type="submit" class="btn btn-primary">Submit</button>
24     </form>
25 </div>
26 </body>
27 </html>
```



# BOOTSTRAP 5 SELECT

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title>Bootstrap Example</title>
5      <meta charset="utf-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7      <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8      <script src="BS5/js/bootstrap.bundle.min.js"></script>
9  </head>
10 <body>
11 <div class="container mt-3">
12     <h2>Select/ComboBox - Inputs</h2>
13     <form action="#">
14         <label for="sel1" class="form-label">Select list (select one):</label>
15         <select class="form-select" id="sel1" name="sellist1">
16             <option>1</option>
17             <option>2</option>
18             <option>3</option>
19             <option>4</option>
20         </select>
21     </form>
22 </div>
23 </body>
24 </html>
```



# BOOTSTRAP 5 CHECKBOXES

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8   <script src="BS5/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11   <div class="container mt-3">
12     <h2>CheckBox - inputs</h2>
13     <form action="#">
14       <div class="form-check">
15         <input type="checkbox" class="form-check-input" id="check1" name="option1" value="something" checked>
16         <label class="form-check-label" for="check1">Option 1</label>
17       </div>
18       <div class="form-check">
19         <input type="checkbox" class="form-check-input" id="check2" name="option2" value="something">
20         <label class="form-check-label" for="check2">Option 2</label>
21       </div>
22       <div class="form-check">
23         <input type="checkbox" class="form-check-input" disabled>
24         <label class="form-check-label">Option 3</label>
25       </div>
26       <button type="submit" class="btn btn-primary mt-3">Submit</button>
27     </form>
28   </div>
29 </body>
30 </html>
```

### CheckBox - inputs

Option 1  
 Option 2  
 Option 3

**Submit**

# BOOTSTRAP 5 RADIobutton

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8   <script src="BS5/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11   <div class="container mt-3">
12     <h2>RadioButton - inputs</h2>
13     <form action="#">
14       <div class="form-check">
15         <input type="radio" class="form-check-input" id="radio1" name="optradio" value="option1" checked>
16         <label class="form-check-label" for="radio1">Option 1</label>
17       </div>
18       <div class="form-check">
19         <input type="radio" class="form-check-input" id="radio2" name="optradio" value="option2">
20         <label class="form-check-label" for="radio2">Option 2</label>
21       </div>
22       <div class="form-check">
23         <input type="radio" class="form-check-input" disabled>
24         <label class="form-check-label">Option 3</label>
25       </div>
26       <button type="submit" class="btn btn-primary mt-3">Submit</button>
27     </form>
28   </div>
29 </body>
30 </html>
```

## RadioButton - inputs

- Option 1
- Option 2
- Option 3

Submit

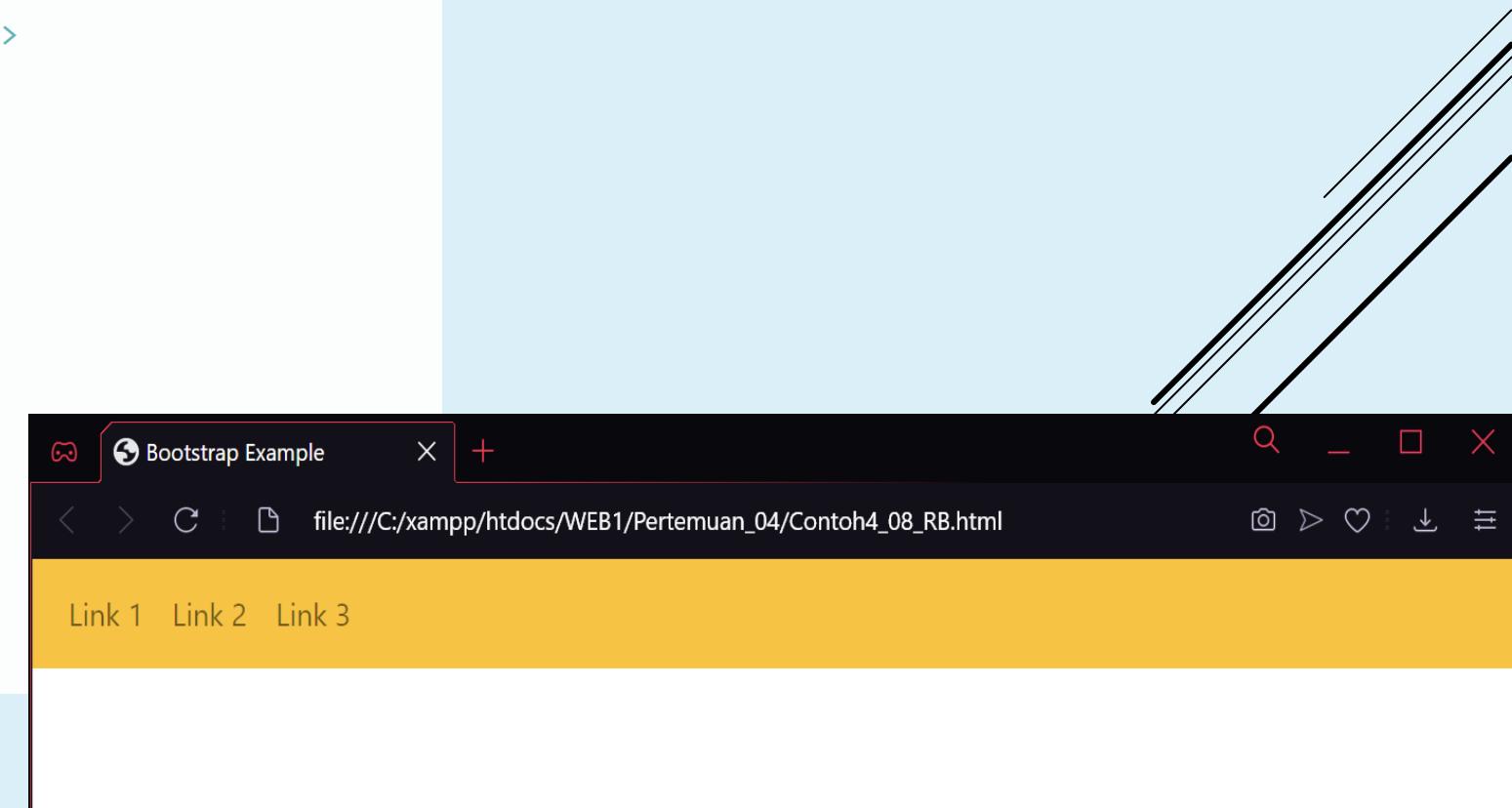
# BOOTSTRAP 5 NAVBAR VERTICAL

```
Contoh4_09_Navbar_V.html x
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <title>Bootstrap Example</title>
5    <meta charset="utf-8">
6    <meta name="viewport" content="width=device-width, initial-scale=1">
7    <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8    <script src="BS5/js/bootstrap.bundle.min.js"></script>
9  </head>
10 <body>
11 <div class="row">
12   <div class="col-2">
13     <nav class="navbar bg-warning">
14       <ul class="navbar-nav">
15         <li class="nav-item">
16           <a class="nav-link" href="#">Link 1</a>
17         </li>
18         <li class="nav-item">
19           <a class="nav-link" href="#">Link 2</a>
20         </li>
21         <li class="nav-item">
22           <a class="nav-link" href="#">Link 3</a>
23         </li>
24       </ul>
25     </nav>
26   </div>
27   <div class="col-10 bg-primary"></div>
28 </div>
29 </body>
30 </html>
```



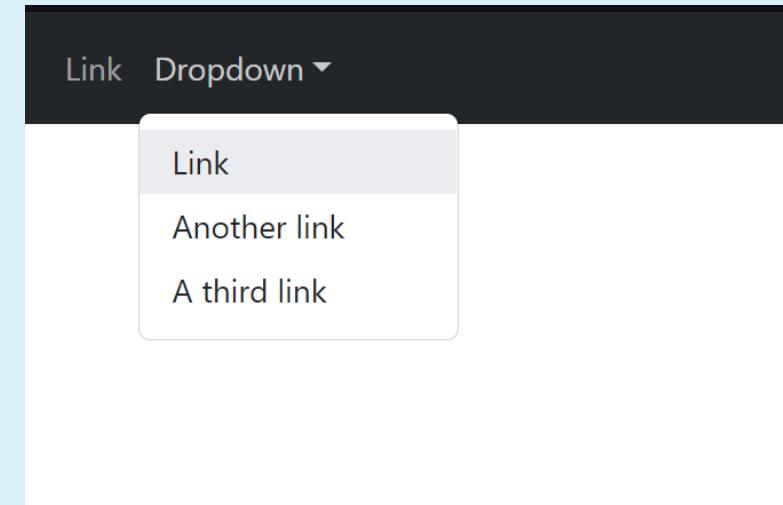
# BOOTSTRAP 5 NAVBAR HORIZONTAL

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8   <script src="BS5/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11 <nav class="navbar navbar-expand-sm bg-warning">
12   <div class="container-fluid">
13     <ul class="navbar-nav">
14       <li class="nav-item">
15         <a class="nav-link" href="#">Link 1</a>
16       </li>
17       <li class="nav-item">
18         <a class="nav-link" href="#">Link 2</a>
19       </li>
20       <li class="nav-item">
21         <a class="nav-link" href="#">Link 3</a>
22       </li>
23     </ul>
24   </div>
25 </nav>
26 </body>
27 </html>
```



# BOOTSTRAP 5 NAVBAR HORIZONTAL WITH DROPDOWN BUTTON

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8   <script src="BS5/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11   <nav class="navbar navbar-expand-sm bg-dark navbar-dark">
12     <div class="container-fluid">
13       <div class="collapse navbar-collapse" id="collapsibleNavbar">
14         <ul class="navbar-nav">
15           <li class="nav-item">
16             <a class="nav-link" href="#">Link</a>
17           </li>
18           <li class="nav-item dropdown">
19             <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown">Dropdown</a>
20             <ul class="dropdown-menu">
21               <li><a class="dropdown-item" href="#">Link</a></li>
22               <li><a class="dropdown-item" href="#">Another link</a></li>
23               <li><a class="dropdown-item" href="#">A third link</a></li>
24             </ul>
25           </li>
26         </ul>
27       </div>
28     </div>
29   </nav>
30 </body>
31 </html>
```



# BOOTSTRAP 5 CAROUSEL

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8   <script src="BS5/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11 <!-- Carousel -->
12 <div id="demo" class="carousel slide" data-bs-ride="carousel">
13   <!-- Indicators/dots -->
14   <div class="carousel-indicators">
15     <button type="button" data-bs-target="#demo" data-bs-slide-to="0" class="active"></button>
16     <button type="button" data-bs-target="#demo" data-bs-slide-to="1"></button>
17     <button type="button" data-bs-target="#demo" data-bs-slide-to="2"></button>
18   </div>
19   <!-- The slideshow/carousel -->
20   <div class="carousel-inner">
21     <div class="carousel-item active">
22       
23     </div>
24     <div class="carousel-item">
25       
26     </div>
27     <div class="carousel-item">
28       
29     </div>
30   </div>
```

# BOOTSTRAP 5 CAROUSEL

```
31
32  <!-- Left and right controls/icons -->
33  <button class="carousel-control-prev" type="button"
34    data-bs-target="#demo" data-bs-slide="prev">
35    <span class="carousel-control-prev-icon"></span>
36  </button>
37  <button class="carousel-control-next" type="button"
38    data-bs-target="#demo" data-bs-slide="next">
39    <span class="carousel-control-next-icon"></span>
40  </button>
41 </div>
42 </body>
43 </html>
```

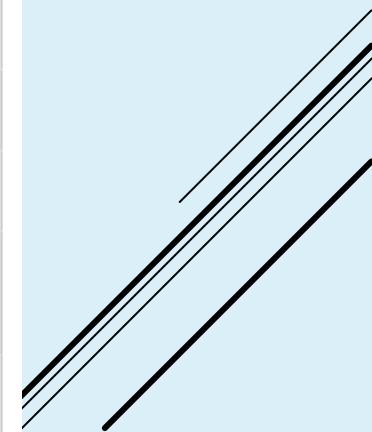


# BOOTSTRAP 5 CAROUSEL

## Example explained

A description of what each class from the example above do:

| Class                       | Description   |
|-----------------------------|---|
| .carousel                   | Creates a carousel  |
| .carousel-indicators        | Adds indicators for the carousel. These are the little dots at the bottom of each slide (which indicates how many slides there are in the carousel, and which slide the user are currently viewing) |
| .carousel-inner             | Adds slides to the carousel   |
| .carousel-item              | Specifies the content of each slide   |
| .carousel-control-prev      | Adds a left (previous) button to the carousel, which allows the user to go back between the slides  |
| .carousel-control-next      | Adds a right (next) button to the carousel, which allows the user to go forward between the slides  |
| .carousel-control-prev-icon | Used together with .carousel-control-prev to create a "previous" button   |
| .carousel-control-next-icon | Used together with .carousel-control-next to create a "next" button   |
| .slide                      | Adds a CSS transition and animation effect when sliding from one item to the next. Remove this class if you do not want this effect   |



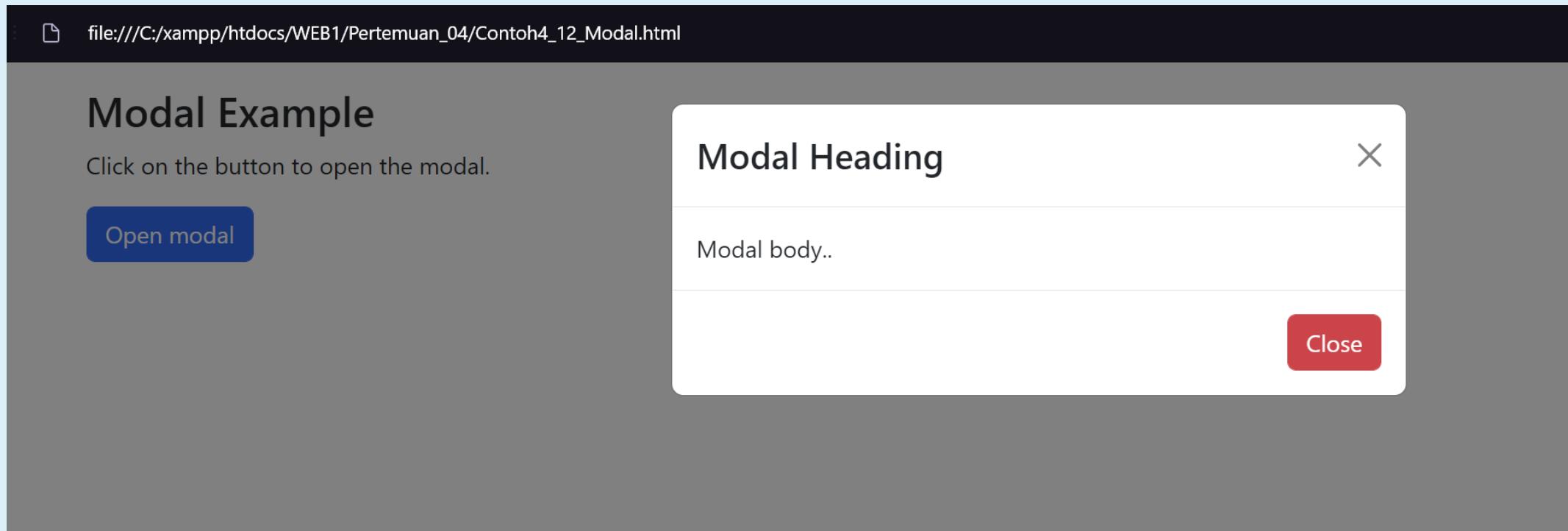
# BOOTSTRAP 5 MODAL

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title>Bootstrap Example</title>
5      <meta charset="utf-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7      <link href="BS5/css/bootstrap.min.css" rel="stylesheet">
8      <script src="BS5/js/bootstrap.bundle.min.js"></script>
9  </head>
10 <body>
11 <div class="container mt-3">
12     <h3>Modal Example</h3>
13     <p>Click on the button to open the modal.</p>
14
15     <button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#myModal">
16         Open modal
17     </button>
18 </div>
19
20 <!-- The Modal -->
```

# BOOTSTRAP 5 MODAL

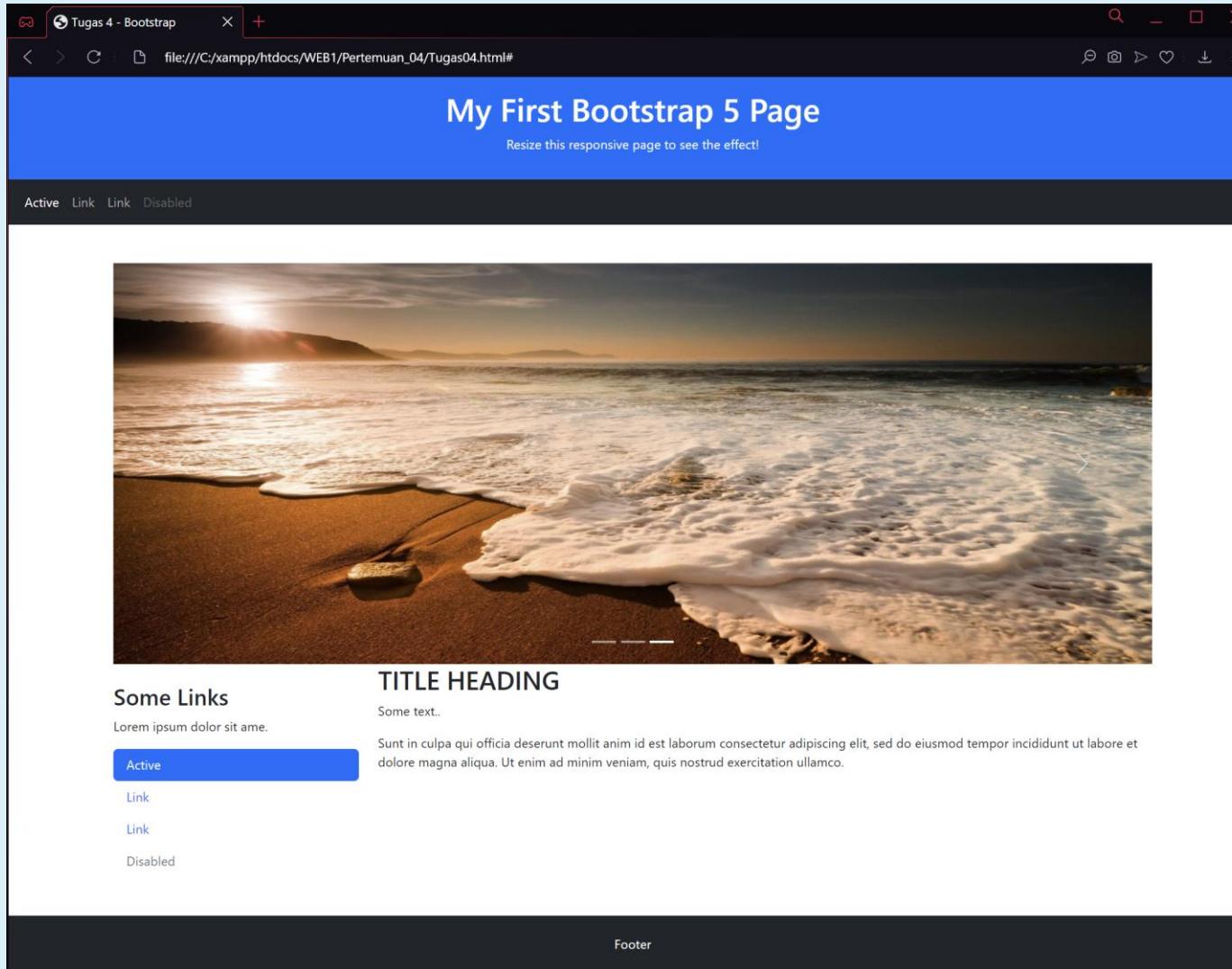
```
20 <!-- The Modal -->
21 <div class="modal" id="myModal">
22   <div class="modal-dialog">
23     <div class="modal-content">
24
25       <!-- Modal Header -->
26       <div class="modal-header">
27         <h4 class="modal-title">Modal Heading</h4>
28         <button type="button" class="btn-close" data-bs-dismiss="modal"></button>
29       </div>
30
31       <!-- Modal body -->
32       <div class="modal-body">
33         Modal body..
34       </div>
35
36       <!-- Modal footer -->
37       <div class="modal-footer">
38         <button type="button" class="btn btn-danger" data-bs-dismiss="modal">Close</button>
39       </div>
40
41     </div>
42   </div>
43 </div>
44 </body>
45 </html>
```

# BOOTSTRAP 5 MODAL



# TUGAS 3 BOOTSTRAP

Buatlah tampilan seperti berikut ini :



# TUGAS 3 BOOTSTRAP

1. Kerjakan menggunakan framework bootstrap 5
2. SourceCode yang dibuat terdapat informasi NIM, Nama dan Kelas
3. ScreenShoot SourceCode nya
4. ScreenShoot hasil tampilan pada browser
5. Susun hasil ScreenShoot dalam 1 file .docx lalu kemudian convert menjadi file .pdf
6. Upload di akun simak masing-masing

# TERIMA KASIH

