Full Stack Development Using Javascript-1

Unit-6 Introduction to Bootstrap

6.1 What is Bootstrap?

Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites. Nowadays, the websites are perfect for all browsers (IE, Firefox, and Chrome) and for all sizes of screens (Desktop, Tablets, Phablets, and Phones). All thanks to Bootstrap developers – Mark Otto and Jacob Thornton of Twitter, though it was later declared to be an open-source project.

Why use Bootstrap?

By using this framework, we can easily manipulate the styling of any web page, like font style, text color, background color, flex, grid system, etc. Bootstrap Vesrion 4 & Vesrion 5 are the most popular versions. There are lots of other CSS frameworks like Tailwind CSS, Bulma, and Foundation but among them, this framework is the most popular because of below mentioned features:

- It is Faster and Easier way for Web-Development.
- It creates Platform-independent web-pages.
- It creates Responsive Web-pages.
- It designs responsive web pages for mobile devices too.
- It is a free and open-source framework available on www.getbootstrap.com

Bootstrap setup

There are two ways to start using Bootstrap on your own web site.

You can:

- Download Bootstrap from getbootstrap.com
- Include Bootstrap from a CDN

Download Bootstrap from getbootstrap.com

- If you want to download and host Bootstrap yourself, go to getbootstrap.com, and follow the instructions there and save that in your working folder.

Include Bootstrap from a CDN

- If you don't want to download and host Bootstrap yourself, you can include it from a CDN (Content Delivery Network).

```
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
```

GLhlTQ8iRABdZLl6O3oVMWSktQOp6b7In1Zl3/Jr59b6EGGoI1aFkw7cmDA6j6gD" crossorigin="anonymous">

jsDelivr provides CDN support for Bootstrap's CSS and JavaScript. You must also include jQuery:

- **jQuery library, JavaScript library** and **Latest compiled JavaScript library**

```
<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js">
</script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js">
</script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">
</script>
```
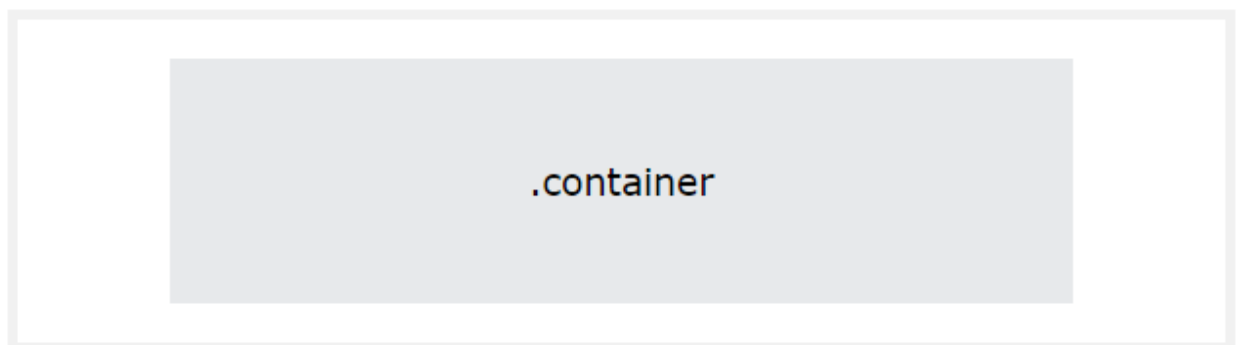
Containers: Fixed, Fluid

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

Fixed Container

Use the .container class to create a responsive, fixed-width container.

Example

```
<html>
<head>
  <title>Bootstrap Example</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
```

```html
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">

</script>

</head>

<body>

<div class="container">

  <h1>My fixed container Bootstrap Page</h1>

  <p>Chapter-6 Introduction to Bootstrap</p>

</div>

</body>

</html>
```


Fluid Container

Example

```
<html>

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">

</script>

</head>

<body>

<div class="container-fluid">

  <h1>My Fluid container Bootstrap Page</h1>

  <p>This part is inside a .container-fluid class.</p>

</div>

</body>

</html>
```

My Fluid container Bootstrap Page

This part is inside a .container-fluid class.

Bootstrap Typography

It is an art of specifying text and its formatting. Default font-size:16px. In addition, all <p> elements have margin-top: 0 and margin-bottom: 1rem (16px by default).

$$1 \text{ rem} = 16 \text{ px}$$

Display headings are used to stand out more than normal headings (larger font-size and lighter font-weight), and there are four classes to choose from: .display-1, .display-2, .display-3, .display-4

Example

```
<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">

</script>

</head>

<body>

<div class="container">

 <h1>Display Headings</h1>

 <p>Display headings are used to stand out more than normal headings (larger font-size and lighter font-weight):</p>

 <h1 class="display-1">Display 1</h1>

 <h1 class="display-2">Display 2</h1>

 <h1 class="display-3">Display 3</h1>

 <h1 class="display-4">Display 4</h1>

</div>

</body>

</html>
```

Display Headings

Display headings are used to stand out more than normal headings (larger font-size and lighter font-weight):

Display 1

Display 2

Display 3

Display 4

Some other typography classes

- text-center
- text-left
- text-right
- text-justify
- text-uppercase
- text-lowercase
- text-capitalize
- font-weight-bold
- font-weight-light

Example

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">

</script>

```html
</head>
<body>

<div class="container">
  <h1>Some other Typography classes</h1>
  <p class="text-uppercase">Uppercase</p>
  <p class="text-center">text center</p>
  <p class="small">small</p>
  <p class="font-weight-bold">Bold text</p>
  <p class="font-italic">Italic text.</p>
</div>
</body>
</html>
```

Abbreviation

<abbr> - This is to denote abbreviation with its full form.

Example

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">

</script>

</head>

<body>

<div class="container">

 <h1>Abbreviations</h1>

 <p>The abbr element is used to mark up an abbreviation or acronym:</p>

 <abbr title="ZALAK BHATT">ZPB</abbr>

</div>

<mark> tag

Example

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

 <h1>MARK TEXT</h1>

 <p>Use the mark element to <mark>highlight</mark> text.</p>

</div>

</body>

</html>

<blockquote> tag

Add the .blockquote class to a <blockquote> when quoting blocks of content from another source.

Example

```
<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

                <div>

                        <blockquote class="blockquote">

                        <p>YOU WILL HAVE TO BE THE CHANGE, THAT YOU  WANT
TO SEE IN THE WORLD....</p>

                        <footer class="blockquote-footer text-right">

                        MAHATMA GANDHI

                        </footer>

                        </blockquote>

                </div>

</body>

</html>
```

YOU WILL HAVE TO BE THE CHANGE, THAT YOU WANT TO SEE IN THE WORLD....
— MAHATMA GANDHI

Bootstrap 4 Colors

Text Colors

The classes for text colors are:

- .text-muted
- .text-primary
- .text-success
- .text-info
- .text-warning
- .text-danger
- .text-secondary
- .text-white
- .text-dark
- .text-body
- .text-light

Example

```
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
  <p>Use the contextual classes to provide "meaning through colors":</p>
  <p class="text-muted">This text is muted.</p>
  <p class="text-primary">This text is important.</p>
  <p class="text-success">This text indicates success.</p>
  <p class="text-info">This text represents some information.</p>
  <p class="text-warning">This text represents a warning.</p>
  <p class="text-danger">This text represents danger.</p>
```

```
<p class="text-secondary">Secondary text.</p>

<p class="text-dark">This text is dark grey.</p>

<p class="text-body">Default body color (often black).</p>

<p class="text-light">This text is light grey (on white background).</p>

<p class="text-white">This text is white (on white background).</p>
</div>

</body>

</html>
```

Use the contextual classes to provide "meaning through colors":

This text is muted.

This text is important.

This text indicates success.

This text represents some information.

This text represents a warning.

This text represents danger.

Secondary text.

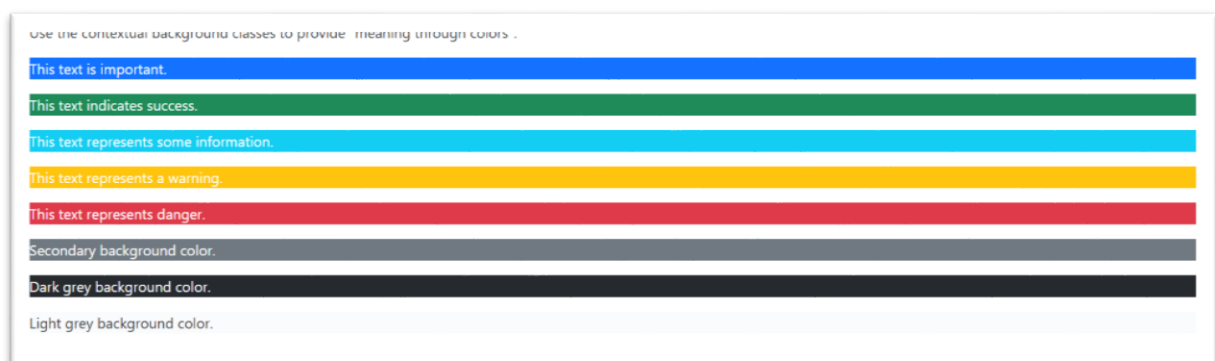This text is dark grey.

Default body color (often black).

Background color

The classes for background colors are:

- .bg-primary
- .bg-success
- .bg-info
- .bg-warning
- .bg-danger
- .bg-secondary
- .bg-dark
- .bg-light.

Example

```
<html>

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">
</script></head>

<body>

<div class="container">

  <p>Use the contextual background classes to provide "meaning through colors".</p>

  <p class="bg-primary text-white">This text is important.</p>

  <p class="bg-success text-white">This text indicates success.</p>

  <p class="bg-info text-white">This text represents some information.</p>

  <p class="bg-warning text-white">This text represents a warning.</p>

  <p class="bg-danger text-white">This text represents danger.</p>

  <p class="bg-secondary text-white">Secondary background color.</p>

  <p class="bg-dark text-white">Dark grey background color.</p>

  <p class="bg-light text-dark">Light grey background color.</p>

</div>

</body>

</html>
```

NOTE: The !important rule in CSS is used to add more importance to a property/value than normal.

In fact, if you use the !important rule, it will override ALL previous styling rules for that specific property on that element

Example

```
<html>

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

        <p class="text-success" style="color:blue !important">This is important</p>

</div>

</body>

</html>
```

This is important

Bootstrap Grid Concept

Bootstrap's grid system 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:

Bootstrap's grid system is responsive, and the columns will re-arrange depending on the screen size: On a big screen it might look better with the content organized in three columns, but on a small screen it would be better if the content items were stacked on top of each other.

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											

Grid Classes

The Bootstrap 4 grid system has five classes:

- .col- (extra small devices - screen width less than 576px)
- .col-sm- (small devices - screen width equal to or greater than 576px)
- .col-md- (medium devices - screen width equal to or greater than 768px)
- .col-lg- (large devices - screen width equal to or greater than 992px)
- .col-xl- (xlarge devices - screen width equal to or greater than 1200px)

create a row (<div class="row">). Then, add the desired number of columns using

.col-*-*

The first star (*) represents the responsiveness: sm, md, lg or xl

The second star represents a number, which should always add up to 12 for each row.

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

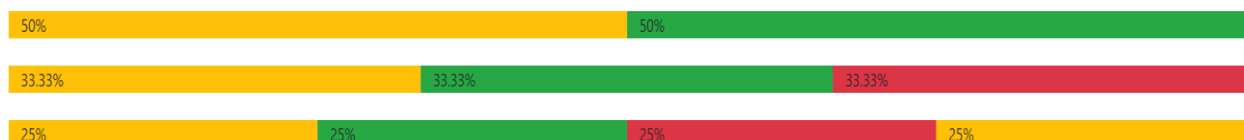 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

```html
</head>
<body>
<div class="container-fluid">
  <h1>Basic Grid Structure</h1>
  <div class="container-fluid">
   <div class="row">
    <div class="col-sm-6 bg-warning">50%</div>
    <div class="col-sm-6 bg-success">50%</div>
   </div>
   <br>
   <div class="row">
    <div class="col-sm-4 bg-warning">33.33%</div>
    <div class="col-sm-4 bg-success">33.33%</div>
    <div class="col-sm-4 bg-danger">33.33%</div>
   </div>
   <br>
   <div class="row">
    <div class="col-sm bg-warning">25%</div>
    <div class="col-sm bg-success">25%</div>
    <div class="col-sm bg-danger">25%</div>
    <div class="col-sm bg-warning">25%</div>
   </div>
   <br>
  </div>
</div>
</body>
</html>
```

Basic Grid Structure

50%	50%

33.33%	33.33%	33.33%

25%	25%	25%	25%

List in Bootstrap

1. Unstyled
2. Inline

Example

```
<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<h2>list-inline</h2>

<ul class="list-inline">

        <li class="list-inline-item">Mango</li>

        <li class="list-inline-item">Apple</li>

        <li class="list-inline-item">Grapes</li>

</ul>

<h2>list-unstyled</h2>

<ul class="list-unstyled">

        <li>Blue</li>

        <li>Green</li>

        <li>Yellow</li>

</ul>

</body>

</html>
```

list-inline

Mango   Apple   Grapes

list-unstyled

Blue
Green
Yellow

Bootstrap Tables

class="table" adds basic styling to a table

class="table-bordered" adds borders on all sides of the table and cells

class="table-hover" adds a hover effect (grey background color) on table rows

class="table-dark"adds a black background to the table

"table-dark" and "table-striped" to create a dark, striped table

class="table-hover" adds a hover effect (grey background color) on table rows

class="table-borderless" removes borders from the table

Contextual classes

Bootstrap offers a variety of classes combined under the name **contextual classes**. We can use them to color the whole table, its rows, columns, or even a single cell.

The list of contextual classes is given below.

- table-primary
- table-secondary
- table-success
- table-danger
- table-warning
- table-info
- table-light
- table-dark
- table-active

Example

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

```html
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
        <body>
                <table class="table table-striped table-bordered table-hover table-sm">
                        <thead class="thead-dark">
                         <tr align="center">
                                <th>Name</th>
                                <th>Value</th>
                        </tr>
                        </thead>
                        <tr align="center">
                                <td>Fruit</td>
                                <td>Mango</td>
                        </tr>
                        <tr align="center">
                                <td>Flower</td>
                                <td>Rose</td>
                        </tr>
                        <tr align="center">
                                <td>Animal</td>
                                <td>Cat</td>
                        </tr>
                </table>
        </body>
</html>
```

Name	Value
Fruit	Mango
Flower	Rose
Animal	Cat

```
<html>

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

        <body>

                <table class="table table-striped table-bordered table-hover table-sm">

                        <thead class="thead-dark">

                          <tr align="center">

                                <th>Name</th>

                                <th>Value</th>

                        </tr>

                         </thead>

                        <tr class="bg-info" align="center">

                                <td>Fruit</td>

                                <td>Mango</td>

                        </tr>

                        <tr class="bg-warning" align="center">

                                <td>Flower</td>

                                <td>Rose</td>

                        </tr>

                        <tr class="bg-success"  align="center">

                                <td>Animal</td>

                                <td>Cat</td>

                        </tr>

                </table>
```

```
        </body>
</html>
```

Name	Value
Fruit	Mango
Flower	Rose
Animal	Cat

```
<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

        <body>

                <table class="table table-striped table-bordered table-hover table-danger table-
sm">

                        <thead class="thead-dark">

                        <tr align="center">

                                <th>Name</th>

                                <th>Value</th>

                        </tr>

                        </thead>

                        <tr align="center">

                                <td>Fruit</td>

                                <td>Mango</td>

                        </tr>

                        <tr align="center">
```

```
                    <td>Flower</td>

                    <td>Rose</td>

            </tr>

            <tr align="center">

                    <td>Animal</td>

                    <td>Cat</td>

            </tr>

        </table>

    </body>

</html>
```

Name	Value
Fruit	Mango
Flower	Rose
Animal	Cat

```
<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

    <body>

        <table class="table table-striped table-bordered table-hover table-sm">

                <thead class="thead-dark">

                <tr align="center">

                        <th>Name</th>

                        <th>Value</th>

                </tr>
```

```
        </thead>

        <tr align="center">

            <td>Fruit</td>

            <td>Mango</td>

        </tr>

        <tr align="center">

            <td>Flower</td>

            <td>Rose</td>

        </tr>

        <tr align="center">

            <td>Animal</td>

            <td>Cat</td>

        </tr>

    </table>

</body>

</html>
```

Name	Value
Fruit	Mango
Flower	Rose
Animal	Cat

6.2 Images

Rounded

The .rounded class adds rounded corners to an image

Example

<html>

<head>

 <meta charset="utf-8">

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

        <body>

        </body>

</body>

</html>

Circle

The .rounded-circle class shapes the image to a circle

Example

```
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
    <body>
        <img src="taj.jpg" class="rounded-circle"/>
    </body>
</body>
</html>
```

Thumbnail

The .img-thumbnail class shapes the image to a thumbnail (bordered)

Example

```
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
        <body>
                <img src="paris.jpg" class="img-thumbnail"/>
        </body>
</body>
</html>
```

Alignment Classes

- **float-left** – Attaches image to leftmost side
- **float-right** – Attaches image to rightmost side
- **mx-auto d-block** – margin auto sets image as centrally aligned element

Example

```
<html>

<head>

 <meta charset="utf-8">

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

        <body>

                <img src="paris.jpg" class="rounded float-left"/>

                <img src="paris.jpg" class="rounded-circle float-right"/>

                <img src="paris.jpg" class="img-thumbnail mx-auto  d-block"/>

        </body>

</body>

</html>
```


Jumbotron

A jumbotron indicates a big grey box for calling extra attention to some special content or information.

Example

```
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
        <div class="jumbotron container">
        LJ UNIVERSITY
        </div>
        <div class="jumbotron">
        LJ UNIVERSITY
        </div>
</body>
</html>
```

LJ UNIVERSITY

LJ UNIVERSITY

Alerts : Success, Info, Warning, Danger

Alerts are created with the .alert class, followed by one of the contextual classes .alert-success, .alert-info, .alert-warning, .alert-danger, .alert-primary, .alert-secondary,.alert light or .alert-dark.

Example

<html>

<head>

 <meta charset="utf-8">

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

 <h2>Alerts</h2>

 <p>Alerts are created with the .alert class, followed by a contextual color classes:</p>

 <div class="alert alert-success">

  Success! This alert box could indicate a successful or positive action.

 </div>

 <div class="alert alert-info">

  Info! This alert box could indicate a neutral informative change or action.

 </div>

 <div class="alert alert-warning">

  Warning! This alert box could indicate a warning that might need attention.

 </div>

 <div class="alert alert-danger">

Danger! This alert box could indicate a dangerous or potentially negative action.

</div>

<div class="alert alert-primary">

Primary! Indicates an important action.

</div>

<div class="alert alert-secondary">

Secondary! Indicates a slightly less important action.

</div>

<div class="alert alert-dark">

Dark! Dark grey alert.

</div>

<div class="alert alert-light">

Light! Light grey alert.

</div>

</div>

</body>

</html>

Alerts

Alerts are created with the .alert class, followed by a contextual color classes:

Success! This alert box could indicate a successful or positive action.

Info! This alert box could indicate a neutral informative change or action.

Warning! This alert box could indicate a warning that might need attention.

Danger! This alert box could indicate a dangerous or potentially negative action.

Primary! Indicates an important action.

Secondary! Indicates a slightly less important action.

Dark! Dark grey alert.

Light! Light grey alert.

Closing Alert

To close the alert message, add a .alert-dismissible class to the alert container. Then add class="close" and data-dismiss="alert" to a link or a button element (when you click on this the alert box will disappear).

Example

```
<html>
<head>
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
                <div class="container">
                        <div class="alert alert-success alert-dismissible">
                        <strong>SUCCESS!!!!!!!!!!!</strong>
                        FORM FILLED SUCCESSFULLY
                        <button class="close" data-dismiss="alert">&times</button>
                        </div>
                </div>
                <div class="container">
                        <div class="alert alert-info alert-dismissible">
                        <strong>SUCCESS!!!!!!!!!!!</strong>
                        FORM FILLED SUCCESSFULLY
                        <button class="close" data-dismiss="alert">&times</button>
                        </div>
                </div>
                <div class="container">
```

```html
<div class="alert alert-warning">
<strong>SUCCESS!!!!!!!!!!!</strong>
FORM FILLED SUCCESSFULLY
<button class="close" data-dismiss="alert">&times</button>
</div>
</div>
<div class="container">
<div class="alert alert-danger">
<strong>SUCCESS!!!!!!!!!!!</strong>
FORM FILLED SUCCESSFULLY
<button class="close" data-dismiss="alert">&times</button>
</div>
</div>
<div class="container">
<div class="alert alert-primary">
<strong>SUCCESS!!!!!!!!!!!</strong>
FORM FILLED SUCCESSFULLY
<button class="close" data-dismiss="alert">&times</button>
</div>
</div>
<div class="container">
<div class="alert alert-secondary">
<strong>SUCCESS!!!!!!!!!!!</strong>
FORM FILLED SUCCESSFULLY
<button class="close" data-dismiss="alert">&times</button>
</div>
</div>
<div class="container">
<div class="alert alert-dark">
<strong>SUCCESS!!!!!!!!!!!</strong>
FORM FILLED SUCCESSFULLY
```

```
                    <button class="close" data-dismiss="alert">&times</button>

                </div>

            </div>

</body>

</html>
```

SUCCESS!!!!!!!!!!! FORM FILLED SUCCESSFULLY   ×

SUCCESS!!!!!!!!!!! FORM FILLED SUCCESSFULLY   ×

SUCCESS!!!!!!!!!!! FORM FILLED SUCCESSFULLY   ×

SUCCESS!!!!!!!!!!! FORM FILLED SUCCESSFULLY   ×

SUCCESS!!!!!!!!!!! FORM FILLED SUCCESSFULLY   ×

SUCCESS!!!!!!!!!!! FORM FILLED SUCCESSFULLY   ×

SUCCESS!!!!!!!!!!! FORM FILLED SUCCESSFULLY   ×

6.3 Button Style

Example

```
<html>

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">

</script>

</head>

<body><div class="container"><h2>Button Styles</h2>

  <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>

</div>

</body>

</html>
```
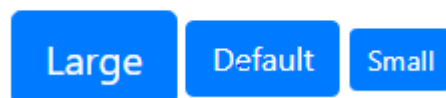
Button Outline

Gives same outline as foreground color of button

Example

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

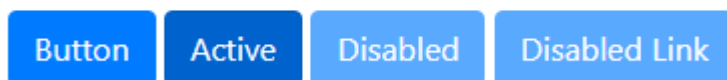 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container"> <h2>Button Outline</h2>

 <button type="button" class="btn btn-outline-primary">Primary</button>

 <button type="button" class="btn btn-outline-secondary">Secondary</button>

 <button type="button" class="btn btn-outline-success">Success</button>

 <button type="button" class="btn btn-outline-info">Info</button>

 <button type="button" class="btn btn-outline-warning">Warning</button>

 <button type="button" class="btn btn-outline-danger">Danger</button>

 <button type="button" class="btn btn-outline-dark">Dark</button>

 <button type="button" class="btn btn-outline-light text-dark">Light</button>

</div></body>

</html>

Button Size

- .btn-lg class for large buttons
- .btn-sm class for small buttons

Example

<html>

<head>

 <meta charset="utf-8">

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

 <h2>Button Sizes</h2>

 <button type="button" class="btn btn-primary btn-lg">Large</button>

 <button type="button" class="btn btn-primary btn-md">Default</button>

 <button type="button" class="btn btn-primary btn-sm">Small</button>

</div>

</body>

</html>

Button Sizes

Large Default Small

Button States

Example

```
<html>
<head>
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
 <h2>Button States</h2>
 <button type="button" class="btn btn-primary">Button</button>
 <button type="button" class="btn btn-primary active">Active</button>
 <button type="button" class="btn btn-primary" disabled >Disabled</button>
 <a href="#" class="btn btn-primary" disabled >Disabled Link</a>
</div>
</body>
</html>
```
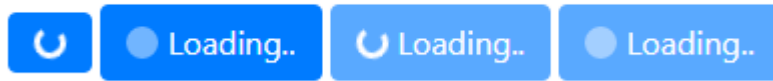
Spinner buttons

Example

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

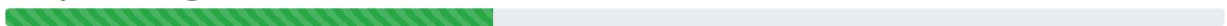 <h2>Spinner Buttons</h2>

 <button class="btn btn-primary">

 </button>

 <button class="btn btn-primary">

  Loading..

 </button>

 <button class="btn btn-primary disabled">

  Loading..

 </button>

 <button class="btn btn-primary disabled">

  Loading..

 </button>

```
</div>

</body>

</html>
```

Spinner Buttons

6.3 Progress Bars

A progress bar is used to display the progress of a process on a computer. A progress bar displays how much of the process is completed and how much is left. You can add a progress bar on a web page using predefined bootstrap classes. Bootstrap provides many types of progress bars.

- .progress – container of progress bar
- .progress-bar – this denotes how much progress bar should be visible with progress

Example

```
<html>
<head>
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
 <h2>Progress Bar</h2>
 <div class="progress">
  <div class="progress-bar" style="width:50%">50%</div>
 </div>
</div>
</body>
</html>
```
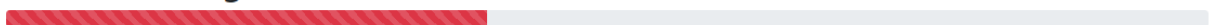
Progress Bar

50%

Striped Progress Bars

The .progress-bar-striped class adds stripes to the progress bars

Example

```
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Striped Progress Bar</h2>
  <div class="progress">
    <div class="progress-bar bg-success progress-bar-striped" style="width:40%"></div>
  </div>
</div>
</body>
</html>
```

Striped Progress Bars

Animated Progress Bar

Note: Effect of animated progress bar can be seen using striped progress bar only

Add the .progress-bar-animated class to animate the progress bar

Example

```html
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
  <h2>Animated Progress Bar</h2>
  <div class="progress">
    <div class="progress-bar progress-bar-striped progress-bar-animated bg-danger"
style="width:40%"></div>
  </div>
</div>
</body>
</html>
```

Animated Progress Bar

Multiple Progress Bars

Create a stacked progress bar by placing multiple bars into the same div with class="progress"

Example

```
<html>

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

  <h2>Multiple Progress Bars</h2>

  <div class="progress" style="border:1px solid black">

    <div class="progress-bar bg-success" style="width:40%">

      Free Space 40%

    </div>

    <div class="progress-bar bg-warning" style="width:10%">

      Warning 10%

    </div>

    <div class="progress-bar bg-danger" style="width:20%">

     Danger 20%

    </div> </div></div></body>

</html>
```

Spinner in Bootstrap

To create a spinner/loader, use the .spinner-border class

Example

```
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
  <h2>Spinners</h2>
  <div class="spinner-border"></div>
</div>
</body>
</html>
```

Spinners

```html
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
 <h2>Colored Spinners</h2>
 <div class="spinner-border text-success"></div>
</div>
</body>
</html>
```

Colored Spinners

Growing Spinner

Example

<html>

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

 <h2>Growing Spinners</h2>

 <div class="spinner-grow text-info"></div>

</div>

</body>

</html>

Growing Spinners

●

Spinner Size

Use .spinner-border-sm or .spinner-grow-sm to create a smaller spinner

Spinner with text

Example

```html
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
  <h2>Spinners</h2>
  <div class="spinner-border text-danger">Loading...</div>
</div>
</body>
</html>
```

Spinner with text

Pagination

- **Basic Pagination**
- **Active State**
- **Disabled State**

Basic Pagination

If you have a web site with lots of pages, you may wish to add some sort of pagination to each page.

Pagination Class:

.pagination - To create a basic pagination add to an <ul> element

.page-item – Add to each <li> element

.page-link - Add to each link inside

Example

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

 <ul class="pagination">

  <li class="page-item">Previous

  <li class="page-item">1
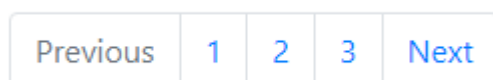
  <li class="page-item">2

  <li class="page-item">3

  <li class="page-item">Next


```
</div>

</body>

</html>
```


Active State

The .active class is used to "highlight" the current page

Example

```
<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js">
</script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js">
</script>

</head>

<body>

<div class="container">

 <ul class="pagination">

  <li class="page-item"><a class="page-link" href="#">Previous</a></li>

  <li class="page-item"><a class="page-link" href="#">1</a></li>

  <li class="page-item active"><a class="page-link" href="#">2</a></li>

  <li class="page-item"><a class="page-link" href="#">3</a></li>

  <li class="page-item"><a class="page-link" href="#">Next</a></li>

 </ul>

</div></body></html>
```
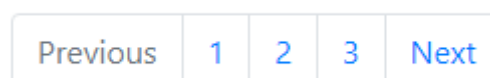
Disabled State

The .disabled class is used for un-clickable links

Example

```
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
<br>
  <ul class="pagination">
    <li class="page-item disabled"><a class="page-link" href="#">Previous</a></li>
    <li class="page-item"><a class="page-link" href="#">1</a></li>
    <li class="page-item"><a class="page-link" href="#">2</a></li>
    <li class="page-item"><a class="page-link" href="#">3</a></li>
    <li class="page-item"><a class="page-link" href="#">Next</a></li>
  </ul>
</div>
</body>
</html>
```

Pagination alignment classes

- **.justify-content-center** – aligns entire control to center
- **.justify-content-end -** aligns entire control to right

Example

```
<html>
<head>
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
<br>
 <ul class="pagination justify-content-center">
  <li class="page-item disabled"><a class="page-link" href="#">Previous</a></li>
  <li class="page-item"><a class="page-link" href="#">1</a></li>
  <li class="page-item"><a class="page-link" href="#">2</a></li>
  <li class="page-item"><a class="page-link" href="#">3</a></li>
  <li class="page-item"><a class="page-link" href="#">Next</a></li>
 </ul>
</div>
</body>
</html>
```

Dropdown

A dropdown menu is a toggleable menu that allows the user to choose one value from a predefined list

.dropdown - Indicates a dropdown menu.

To open the dropdown menu, use a button or a link with a class of .dropdown-toggle and the data-toggle="dropdown" attribute.

Add the .dropdown-menu class to a <div> element to actually build the dropdown menu. Then add the .dropdown-item class to each element (links or buttons) inside the dropdown menu.

Example

```
<html>
<head>
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<br>
<div class="container">
 <div class="dropdown">
  <button type="button" class="btn btn-primary dropdown-toggle" data-
toggle="dropdown">
    --Select Food Item--
  </button>
  <div class="dropdown-menu">
   <a class="dropdown-item" href="#">Pizza</a>
   <a class="dropdown-item" href="#">Sandwich</a>
   <a class="dropdown-item" href="#">Burger</a>
```
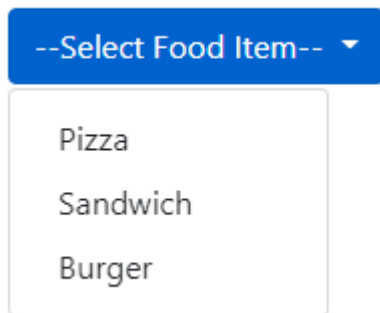
</div>

  </div>

</div>

</body>

</html>

Dropdown divider class

.dropdown-divider - It used to separate links inside the dropdown menu with a thin horizontal border

Example

<html>

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

        <div class="dropdown">

```html
    <button type="button" class="btn btn-primary dropdown-toggle" data-toggle="dropdown">
        --Select Branch--
    </button>
    <div class="dropdown-menu">
      <a class="dropdown-item" href="#">AIML</a>
      <a class="dropdown-item" href="#">CSE</a>
      <a class="dropdown-item" href="#">IT</a>
      <div class="dropdown-divider"></div>
      <a class="dropdown-item" href="#">Mechanical</a>
    </div>
        </div>
</div>
</body>
</html>
```
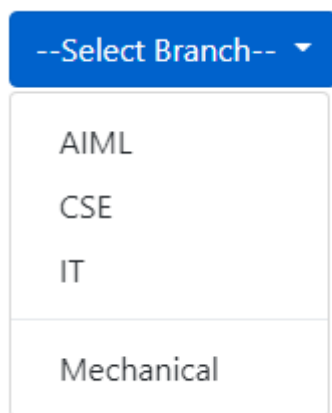

Dropdown right

Example

```html
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
```
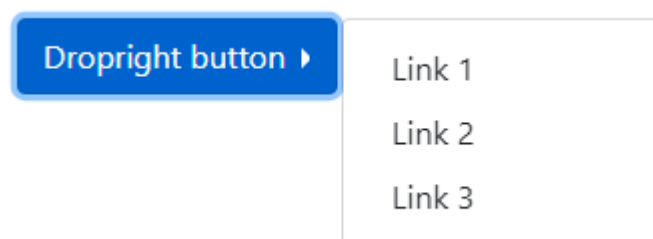
```html
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<br>
<div class="container">
 <div class="dropdown dropright">
  <button type="button" class="btn btn-primary dropdown-toggle" data-toggle="dropdown">
   Dropright button
  </button>
  <div class="dropdown-menu">
   <a class="dropdown-item" href="#">Link 1</a>
   <a class="dropdown-item" href="#">Link 2</a>
   <a class="dropdown-item" href="#">Link 3</a>
  </div>
 </div>
</div>
</body>
</html>
```

Dropright button ▸	Link 1
	Link 2
	Link 3

Dropdown right

Example

```
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<br>
<div class="container">
  <div class="dropdown dropleft">
    <button type="button" class="btn btn-primary dropdown-toggle" data-
toggle="dropdown">
     Dropright button
    </button>
    <div class="dropdown-menu">
     <a class="dropdown-item" href="#">Link 1</a>
     <a class="dropdown-item" href="#">Link 2</a>
     <a class="dropdown-item" href="#">Link 3</a>
    </div>
  </div>
</div>
</body>
</html>
```
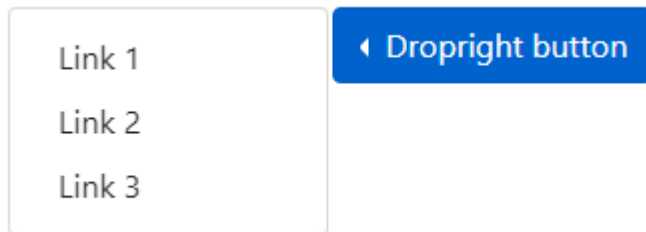
Dropdown header class

.dropdown-header class is used to add headers inside the dropdown menu

Example

```
<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<br>

<div class="container">

 <div class="dropdown">

  <button type="button" class="btn btn-primary dropdown-toggle" data-
toggle="dropdown">

   --Select Subject--

  </button>

  <div class="dropdown-menu">

   <h5 class="dropdown-header">Computer</h5>

   <a class="dropdown-item" href="#">C</a>

   <a class="dropdown-item" href="#">C++</a>
```
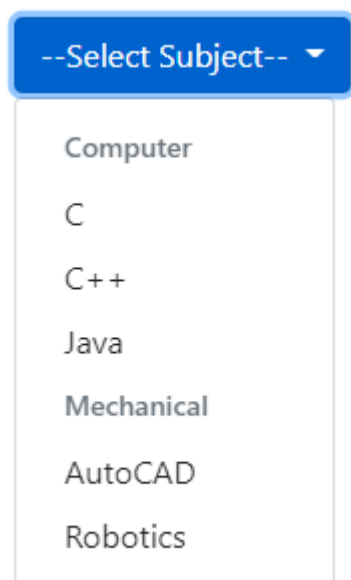
```
    <a class="dropdown-item" href="#">Java</a>

    <h5 class="dropdown-header">Mechanical</h5>

    <a class="dropdown-item" href="#">AutoCAD</a>

    <a class="dropdown-item" href="#">Robotics</a>

  </div>

 </div>

</div>

</body>

</html>
```


Dropup

Example

```
<html>

<head>

 <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
```

```html
</head>

<body>

<br>


<div class="container">

  <h2>Dropdowns</h2>

  <p>The .dropup class makes the dropdown menu expand upwards instead of
downwards:</p>

  <div class="dropup">

    <button type="button" class="btn btn-primary dropdown-toggle" data-
toggle="dropdown">

      Dropup button

    </button>

    <div class="dropdown-menu">

      <a class="dropdown-item" href="#">Rose</a>

      <a class="dropdown-item" href="#">Lotus</a>

    </div>

  </div>

</div>

</body>
```

Dropdowns

The .dropup class makes the dropdown menu expand upwards instead of downwards:

Dropup button ▲

| Rose |
| Lotus |

Dropup button ▲

Collapse

Collapse component is used to show or hide the content by using **.collapse** class. The content can be collapsed by adding **data-toggle="collapse"** attribute anchor or button element. The id of these elements references to the id of the content to collapse the data.

Example

<html>

<head>

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

 <h2>Simple Collapse</h2>

 <button type="button" class="btn btn-primary" data-toggle="collapse" data-target="#demo">CLICK TO COLLAPSE</button>

 <div id="demo" class="collapse">

  Welcome to LJ UNIVERSITY. Full stack development course

 </div>

</div>

</body>

</html>

Accordion

You can use collapsible content to make an accordion which is often used for content such as FAQs, overviews, etc. The **data-parent** attribute makes sure that all collapsible elements under the specified parent will be closed when one of the collapsible item is shown.

The .collapse class indicates a collapsible element (a <div> in our example); this is the content that will be shown or hidden with a click of a button.

To control (show/hide) the collapsible content, add the **data-toggle="collapse"** attribute to an <a> or a <button> element. Then add the data-target="#id" attribute to connect the button with the collapsible content (<div id="demo">).

For <a> elements, you can use the href attribute instead of the data-target attribute

By default, the collapsible content is hidden. However, you can add the .show class to show the content by default

Example

```
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<h3>Accordian</h3>
        <div id="accordian">
                <div class="card">
                        <div class="card-header">
                                <a href="#collapseone" class="card-link" data-toggle="collapse">ITEM#1</a>
                        </div>
                        <div id="collapseone" class="collapse show" data-parent="#accordian">
```

```html
                        <div class="card-body">THIS IS DEMO THIS IS DEMO
THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS
DEMO THIS IS DEMO THIS IS DEMO</div>

                    </div>

            </div>

            <div class="card">

                    <div class="card-header">

                            <a href="#collapsetwo" class="card-link" data-
toggle="collapse">ITEM#1</a>

                    </div>

                        <div id="collapsetwo" class="collapse" data-
parent="#accordian">

                        <div class="card-body">THIS IS DEMO THIS IS DEMO
THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS
DEMO THIS IS DEMO THIS IS DEMO</div>

            </div>

            </div>

            <div class="card">

                    <div class="card-header">

                            <a href="#collapsethree" class="card-link" data-
toggle="collapse">ITEM#1</a>

                    </div>

                        <div id="collapsethree" class="collapse" data-
parent="#accordian">

                        <div class="card-body">THIS IS DEMO THIS IS DEMO
THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS
DEMO THIS IS DEMO THIS IS DEMO</div>

                    </div>

            </div>

        </div>

</body>

</html>
```

Accordion

ITEM#1

THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO THIS IS DEMO

ITEM#1

ITEM#1