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- It is an open source, cross platform library for HTML, CSS and JavaScript.
- Open source allows to customize according to the client requirements.
- Library comprises of templets.
- A templet comprises of predefined design and functionality which you can implement in your application without re-designing.
- Bootstrap provides predefined components .[Web Components]
- Component comprises of
  - a.Design in HTML
  - b.Styles in CSS
  - c.Funnctionality in jQuery
- Components like alerts,navbar,carousel,pagination,accordion,modal etc.
- Bootstrap provides
  - HTML markup
  - CSS classes
  - jQuery attributes

setup environment for bootstrap::[version 3.2,4.2,5]

-----

```
>npm install bootstrap --save
>npm install bootstrap-icons --save
>npm install jquery --save
```

files required for bootstrap components:

- bootstrap.css
- bootstrap-icons.css
- jquery.js
- bootstrap.bundle.js

Note:Bootstrap uses "Roboto" font.

Bootstrap Container

-----

- container is used to keep all related content together.
- Bootstrap provides various container classes for various devices.
  - .container small devices[mobile]
  - .container-lg large devices[laptop,desktop]
  - .container-md medium devices[tab]
  - .container-fluid responsive

```
<div class="container">
```

FAQ:Can we customize bootstrap classes?

Ans: Yes.

```
<style>
    .container-fluid {
        border: 2px solid black;
    }
```

</style>

## Bootstrap Box Model

### Margins and Paddings:

.m	margin
.p	padding
s	left
e	right
t	top
b	bottom
x	left and right
y	top and bottom
.ms	left margin
.ps	left padding
.mx	margin left and right
.my	margin top and bottom
.px	padding left and right

Size for padding and margin can be 1 to 4 values.

.ms-4	margin left 4[400]
.p-4	padding all directions
.m-4	margin all direction

syntax:

```
<p class="mt-3 ml-3 me-3 ms-3 p-4">
  Your text
</p>
```

Borders:

.border	sets border
.border-size	size can be 1 to 4 -dependency on border
	border-1
	border-4
.border-contextual	it sets a predefined contextual colors
	primary
	secondary
	dark
	light
	sucess
	danger
	warning
	info etc.

syntax:

```
<p class="border border-4 border-primary">

</p>
```

#### Rounded Border:

.rounded                      base class  
.rounded-size                size can be 1 to 3  
.rounded-circle  
.rounded-pill

#### syntax:

```
<p border border-4 border-primary rounded rounded-pill
```

```
</p>
```

```
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```

```
=====
```

#### Contextual colors for text and background

.text-contextual    [primary,secondary,sucess,danger,warning,info,dark,light]  
.text-primary

.bg-contextual  
.bg-primary,danger,warning,sucess etc.

#### Bootstrap Display:

```
-----  
.d                      display  
.d-flex  
.d-grid  
.d-inline  
.d-none  
.flex-wrap  
.justify-content-center,between  
.d-block
```

ex: <div class="container-fluid">

```
  <div>
```

```
    <div class="d-flex justify-content-center align-items-center"
```

```
style="height: 400px">
```

```
    <form action="">
```

```
      <dl>
```

```
        <dt>User Name</dt>
```

```
        <dd><input type="text"></dd>
```

```
        <dt>Password</dt>
```

```
        <dd><input type="password"></dd>
```

```
      </dl>
```

```
      <button>Login</button>
```

```
    </form>
```

```
  </div>
```

```
</div>
```

```
</div>
```

#### Bootstrap Rows and Columns:

```
-----
```

.row                configures a row  
.col                defines a column  
.col-1 to 12       size of column

EX: <div class="container-fluid">  
     <h2>Product Details</h2>  
     <dl class="row">  
         <dt class="col-3">Name</dt>  
         <dd class="col-9">Samsung TV</dd>  
         <dt class="col-3">Price</dt>  
         <dd class="col-9">5600</dd>  
         <dt class="col-3">Stock</dt>  
         <dd class="col-9">Available</dd>  
     </dl>  
   </div>

synatx:

```
<div class="row">  
  <div class="col">  
    single column  
  </div>  
</div>  
<div class="row">  
  <div class="col">  
    col-1  
  </div>  
  <div class="col">  
    col-2  
  </div>  
</div>
```

Position:

-----

.position-static  
.position-absolute  
.position-relative  
.position-fixed  
.position-sticky

.top-0  
.top-50  
.top-100

.start-0  
.start-50  
.start-100

.end-0  
.end-50  
.end-100

.bottom-0  
.bottom-50  
.bottom-100

syntax:           <h2 class="position-sticky top-0 bg-dark text-white">HTML</h2>

Floating:

-----

.float-start  
.float-end

Text Alignments

-----

.text-left  
.text-center  
.text-right  
.text-justify

Width and Height

-----

.w-25  
.w-50  
.w-75  
.w-100

.h-25  
.h-50  
.h-75  
.h-100

ex:           <img class="w-100 h-25">  
              <button class="w-100"></button>

## Bootstrap Components

-----

1. Alerts :it will display embeded dialog in page.you can control dynamically.

CSS Classes

.alert  
.alert-contextual  
.alert-text  
.alert-link  
.alert-title  
.alert-dismissible

jQuery Attributes

.data-bs-dismiss   :used to close  
.data-bs-toggle    :it defines the component to use  
.data-bs-target     :it defines the ID of reffered component  
.data-bs-parent     :it defines the parent component

```

EX:<div class="container-fluid">
  <h2>Alerts</h2>
  <div class="alert alert-danger alert-dismissible">
    <button class="btn-close" data-bs-dismiss="alert"></button>
    <h2 class="alert-title">Delete Record</h2>
    <p class="alert-text"> Selected record will be deleted</p>
    <a href="#" class="alert-link">Help?</a>
    <button data-bs-dismiss="alert">OK</button>
  </div>
</div>

```

## 2.Buttons

.btn	base class
.btn-contextual	colors
.btn-sm	small
.btn-lg	large
.btn-outline-contextual	
.btn-link	
.btn-close	
.btn-toolbar	
.btn-group	
.btn-group-vertical	

EX::

```

<div class="container-fluid">
  <h2>Link Button</h2>
  <button class="btn btn-link">Sign In</button>
  <button class="btn-close"></button>
  <h2>Block Button</h2>
  <button class="btn btn-dark w-100">Back to top</button>
  <h2>Button Base Classes</h2>
  <button class="btn btn-primary">Insert</button>
  <button class="btn btn-success">Update</button>
  <button class="btn btn-danger">Delete</button>
  <h2>Button Outline</h2>
  <button class="btn btn-outline-primary btn-sm">Insert</button>
  <button class="btn btn-outline-success">Update</button>
  <button class="btn btn-outline-danger btn-lg">Delete</button>
  <h2>Button Group</h2>
  <div class="btn-group btn-group-vertical">
    <button class="btn btn-outline-primary">Insert</button>
    <button class="btn btn-outline-success">Update</button>
    <button class="btn btn-outline-danger">Delete</button>
  </div>
  <h2>Button Toolbar</h2>
  <div class="btn-toolbar bg-danger justify-content-between">
    <div class="btn-group">
      <button class="btn btn-danger"><span class="bi

```

```

bi-house-door"></span>Home</button>
  <button class="btn btn-danger">About</button>
  <button class="btn btn-danger">Contact</button>
  </div>
  <div class="btn-group">
    <button class="btn btn-danger">Login</button>
    <button class="btn btn-danger">Search</button>
  </div>
</div>
</div>

```

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### 3.Bootstrap Cards:

```

.card
.card-header
.card-body
.card-footer
.card-title
.card-subtitle
.card-text
.card-img-top
.card-img-overlay

```

Note:Card-deck is removed from bootstrap 5.you have to use display flex classes.

EX:body class="container-fluid">

```

  <h2>Todays Deal</h2>
  <div class="d-flex flex-wrap">
    <div class="card w-25 m-2">
      <div class="card-header">
        <h2 class="card-title">boAt Ear Bud</h2>
        <p class="card-subtitle">50% OFF</p>
      </div>
      <div class="card-body">
        
        <p class="card-text"> ₹8377; 2000</p>
      </div>
      <div class="card-footer">
        <button class="btn btn-danger w-100">
          <span class="bi bi-cart"> Add to Cart</span>
        </button>
      </div>
    </div>
  </div>
</div>
</body>

```

### Bootstrap Modal

-----

- Modal is a dialog.
- You can turn ON and OFF.
- Dialog pops up in a page to display message or to handle any interaction.

- .modal
- .modal-header
- .modal-body
- .modal-footer
- .modal-dialog
- .modal-content
- .modal-fullscreen
- .modal-dialog-centered
- .show :it is used to ON display.
- .fade :it provides fading effect.
- .modal-title
- .modal-text
- .modal-dialog-scrollable

Syntax:

```

<div class="modal">
  <div class="modal-dialog">
    <div class="modal-content">
      //modal section
    </div>
  </div>
</div>

```

- .modal-sm
- .modal-lg

New classes for size

Note: "modal-dialog" is mandatory for modals.  
bootstrap 5 disabled nested modals.[modal-inside-modal]

EX:

```

<body class="container-fluid">
  <h2>Modals</h2>
  <button class="btn btn-outline-primary" data-bs-toggle="modal"
data-bs-target="#registerModal">Register</button>
  <button class="btn btn-outline-success" data-bs-toggle="modal"
data-bs-target="#loginModal">Login</button>
  <div class="modal fade" id="registerModal">
    <div class="modal-dialog modal-dialog-centered">
      <div class="modal-content">
        <div class="modal-header">
          <h2 class="modal-title">Register New User</h2>
          <button class="btn-close" data-bs-dismiss="modal"></button>
        </div>
        <div class="modal-body">
          <dl>
            <dt>User Name</dt>
            <dd><input type="text"></dd>
            <dt>Password</dt>
            <dd><input type="password"></dd>
            <dt>Email</dt>

```



```

        <dd><input type="email"></dd>
    </dl>
</div>
<div class="modal-footer">
    <button class="btn btn-primary">Register</button>
    <button class="btn btn-danger"
data-bs-dismiss="modal">Cancel</button>
</div>
</div>
</div>
</div>

<div class="modal fade" id="loginModal">
    <div class="modal-dialog modal-dialog-centered">
        <div class="modal-content">
            <div class="modal-header">
                <h2>User Login</h2>
                <button class="btn-close" data-bs-dismiss="modal"></button>
            </div>
            <div class="modal-body">
                <dl>
                    <dt>User Name</dt>
                    <dd><input type="text"></dd>
                    <dt>Password</dt>
                    <dd><input type="password"></dd>
                </dl>
            </div>
            <div class="modal-footer">
                <button class="btn btn-primary">Login</button>
            </div>
        </div>
    </div>
</div>
<script src="../../node_modules/jquery/dist/jquery.js"></script>
<script src="../../node_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>
</body>

```

#### Bootstrap Forms

.form-control	textbox,password,data,email,url,number,textarea
.form-select	<select> element
.form-input-range	range input
.form-range	range input
.form-label	labels
.form-control-label	
.form-switch	checkbox
.form-check	checkbox and radio
.form-check-input	checkbox and radio
.form-check-label	label for check box and radio

EX:

```

<body class="container-fluid">
  <div class="d-flex justify-content-center align-items-center"
style="height:500px">
    <div>
      <h2>Register User</h2>
      <div class="mb-2">
        <label class="form-label" for="UserName">User Name</label>
        <div>
          <input type="text" name="UserName" class="form-control">
        </div>
      <div class="mb-2">
        <label class="form-label" for="Password">Password</label>
        <div>
          <input type="Password" name="Password" class="form-control">
        </div>
      </div>
      <div class="mb-2">
        <label for="City" class="form-label">Choose City</label>
        <div>
          <select name="City" id="" class="form-select">
            <option value="">Select Your City</option>
            <option value="">Delhi</option>
            <option value="">Odisha</option>
          </select>
        </div>
      </div>
      <div class="mb-2">
        <label class="form-label" for="subscribe">You want subscription</label>
        <div class="form-switch">
          <input type="checkbox" class="form-check-input"
name="subscribe"><label class="form-check-label">Yes</label>
        </div>
      </div>
      <div class="mb-2">
        <label class="form-label" for="age">Select Age</label>
        <div>
          <input type="range" name="age" class="form-range">
        </div>
      </div>
      <div class="mb-2">
        <button class="btn btn-primary w-100">Register</button>
      </div>
    </div>

    <script src="../../node_modules/jquery/dist/jquery.js"></script>
    <script src="../../node_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>
  </body>

```

## Bootstrap Input Group

```
.input-group[lg]
.input-group-text
.input-group-append      ]4.0 removed from bootstrap 5
.input-group-prepend      ]
```

syntax:

```
<div class="input-group">
  <input type="text" class="form-control">
    <span class="input-group-text">@gmail.com</span>
</div>
```

EX:

```
<body class="container-fluid">
  <h2>Amazon Search Bar</h2>
  <div class="input-group">
    <select name="" id="" class="input-group-text">
      <option value="">All</option>
      <option value="">Mobile</option>
    </select>
    <input type="text" class="form-control">
    <button class="btn btn-warning">
      <span class="bi bi-search"></span>
    </button>
  </div>
  <h2>Input group Append</h2>
  <div class="input-group">
    <input type="text" class="form-control">
    <span class="input-group-text">@gmail.com</span>
  </div>
  <h2>Append and Prepend</h2>
  <div class="input-group">
    <span class="input-group-text">&#8377;</span>
    <input type="text" class="form-control">
    <span class="input-group-text">.00</span>
  </div>
  <h2>Center</h2>
  <div class="input-group">
    <input type="text" class="form-control">
    <span class="input-group-text">@</span>
    <input type="text" class="form-control">
  </div>
</body>
```

EX:

```
<div class="mb-2">
  <label class="form-label" for="UserName">User Name</label>
  <div class="input-group">
    <span class="bi bi-person input-group-text"></span>
```

```

        <input type="text" name="UserName" class="form-control">
        <span class="bi bi-check-circle input-group-text"></span>
    </div>
    <div class="mb-2">
        <label class="form-label" for="Password">Password</label>
        <div class="input-group">
            <span class="bi bi-key-fill input-group-text"></span>
            <input type="Password" name="Password" class="form-control">
            <span class="bi bi-check-circle input-group-text"></span>
        </div>
    </div>
</div>

```

### Bootstrap Collapse

.collapse  
.collapsible

Note: it allows to show or hide content dynamically.

syntax:

```

<button data-bs-toggle="collapse" data-bs-target="#id">
    <div class="collapse show" id=" ">
        your content
    </div>
</button>

```

EX:

```

<h2>Collapse Demo</h2>
<button data-bs-toggle="collapse" data-bs-target="#preview">Preview Show /
Hide </button>
<div class="collapse show" id="preview">
    
</div>

```

### Bootstrap Accordion

-it provides vertically collapsing accordion like containers.  
-Bootstrap 5 internally uses collapse for accordion.

.accordion  
.accordion-item  
.accordion-header  
.accordion-body  
.accordion-button  
.accordion-collapse

NOTE: The class "accordion-collapse" defines collapse behaviour for accordion items.

In bootstrap 4 we have to define it explicitly by using "collapse" component.

You have to define collapse class for accordion-body.

jQuery Attributes:

data-bs-parent -it specifies the parent accordion id and it is defined for accordion body.

-if parent is not defined ,then it will collapse every item individually.

syntax:

```
<div class="accordion" id="parent">
  <div class="accordion-item">
    <div class="accordion-header">
      <h2 class="accordion-button">Topic-1</h2>
    </div>
    <div class="accordion-body accordion-collapse collapse show"
      id="topic1" data-bs-parent="#parent">
      your content
    </div>
  </div>
</div>
```

EX:

```
<body class="container-fluid">
  <h2>Accordion</h2>
  <div class="accordion" id="topics">
    <div class="accordion-item">
      <div class="accordion-header">
        <button class=" btn btn-danger w-100" data-bs-toggle="collapse"
data-bs-target="#css">
          <h3>CSS Tutorial</h3>
        </button>
      </div>
      <div id="css" data-bs-parent="#topics" class="accordion-body
accordion-collapse collapse show">
        <p>Something about Lorem ipsum dolor, sit amet consectetur
adipicidunt totam</p>
      </div>
    </div>
    <div class="accordion-item">
      <div class="accordion-header">
        <button class="btn btn-outline-success w-100"
data-bs-toggle="collapse" data-bs-target="#html">
          <h3>HTML Tutorial</h3>
        </button>
      </div>
      <div class="accordion-body accordion-collapse collapse " id="html"
data-bs-parent="#topics">
        <p>Something about HTML..</p>
      </div>
    </div>
    <div class="accordion-item">
      <div class="accordion-header">
        <button class="btn btn-outline-primary w-100"
data-bs-toggle="collapse" data-bs-target="#js" >
          <h3>JavaScript Tutorial</h3>
        </button>
      </div>
    </div>
```

```

        <div class="accordion-body accordion-collapse collapse" id="js"
data-bs-parent="#topics">
            <p>Something about js..</p>
        </div>
    </div>
</div>
</body>

```

### Bootstrap Dropdown

- form <select> defines a dropdown but will not allow icons and symbols.
- it is good for controlling the items dynamically,like adding and removing items from list.
- bootstrap dropdown can display items with icons and symbols but not good for dynamically adding and removing items.
- hence use bootstrap dropdown only for navigation.

### Classes:

```

.dropdown          down
.droppup           up
.dropend           right
.dropstart         left
.dropdown-item
.dropdown-text
.dropdown-link
.dropdown-collapse
.dropdown-menu

```

Note: Collapse is internally defined in bootstrap-5.

.dropdown-toggle :it is used to show or hide collapse.  
[defined for dropdown button]

### syntax:

```

<div class="dropdown">
    <button class="dropdown-toggle">Select</button>
<div class="dropdown-menu collapse">
    <div class="dropdown-items">
        //your items
    </div>
</div>
</div>

```

### EX:

```

<h2>Dropdown</h2>
<div class="dropdown">
    <button class="dropdown-toggle" data-bs-toggle="dropdown">
        <span class="bi bi-globe"></span>Language
    </button>
    <div class="dropdown-menu collapse" id="items">
        <div class="dropdown-item">

```

```

        <span class="bi bi-graph-down"></span>English
    </div>
    <div class="dropdown-item">
        Hindi
    </div>
    <div class="dropdown-item">
        Odia
    </div>
    <div class="dropdown-divider"></div>
    <div class="dropdown-item">
        <a href="#">Help?</a>
    </div>
</div>
</div>

```

Note:

- The items in dropdown can be defined active or disabled by using the classes
  - .active
  - .disabled

```
<div class="dropdown-items active"></div>
```

45:Netflix home page

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-----

Bootstrap Carousel

- it is used for sliding and fading banners.

Classes:

-----

```

.carousel
.carousel-inner
.carousel-item
.carousel-indicators
.carousel-control-previous-icon ]buttons
.carousel-control-next-icon    ]
.carousel-dark
.carousel-fade
.carousel-control-next         ]
.carousel-control-previous     ]buttons

```

jQuery Attributes:

```

data-bs-ride
data-bs-slide
data-bs-slide-to-number
data-bs-touch
data-bs-interval

```

Basic Carousel Rules:

-----  
1.Any one carousel item must be in active state.

```
<div class="carousel-item active">
```

2.By default carousel will not start its animation.you have to configure jQuery attribute "data-bs-ride".

```
<div class="carousel" data-bs-ride="carousel">
```

3.Carousel must have "slide or fade" effect defined.

```
<div class="carousel slide">
```

```
<div class="carousel fade carousel-fade">
```

```
bootstrap-4 fade
```

```
bootstrap-5 carousel-fade
```

4.Carousel indicators requires active class.

```
<button data-bs-slide-to="1" class="active" data-bs-target="#" ></button>
```

5.You can set timing for every carousel item individually.

```
"data-bs-interval=2000"
```

```
1000 mili seconds = 1sec
```

```
<div class="carousel-item" data-bs-interval="3000">
```

6.Bootstrap introduced dark mode for carousel.

```
"carousel-dark"
```

```
<div class="carousel" carousel-dark">
```

EX:

```
<div class="carousel carousel-dark slide mt-2" data-bs-ride="carousel" id="banner">
```

```
<div class="carousel-inner">
```

```
<div class="carousel-item active" data-bs-interval="2000">
```

```

```

```
</div>
```

```
<div class="carousel-item" data-bs-interval="1000">
```

```

```

```
</div>
```

```
<div class="carousel-item" data-bs-interval="4000">
```

```

```

```
</div>
```

```
<button class="carousel-control-prev" data-bs-slide="prev" data-bs-target="#banner">
```

```
<span class="carousel-control-prev-icon"></span>
```

```
</button>
```

```
<button class="carousel-control-next" data-bs-slide="next" data-bs-target="#banner">
```

```
<span class="carousel-control-next-icon"></span>
```

```
</button>
```



```

        <div class="carousel-indicators">
            <button data-bs-target="#banner" data-bs-slide-to="0"
class="active"></button>
            <button data-bs-target="#banner" data-bs-slide-to="1"></button>
            <button data-bs-target="#banner" data-bs-slide-to="2"></button>
        </div>
    </div>
</div>

```

## Bootstrap-images

```

.img-fluid
.img-thumbnail

```

```

        <img src="" class="img-fluid img-thumbnail">
EX: 

```

## Bootstrap Tables

```

.table
.table-hover
.table-bordered
.table-striped
.table-dark
.table-responsive
.caption-top

```

Note: Colors are defined with "bg-contextual"

Bootstrap 5 changed its responsive table style.

```

<div class="table-responsive">
    <table class="table">

```

```

        </table>

```

```

    </div>

```

Bootstrap 4 uses responsive for table element

```

    <table class="table table-responsive">
</table>

```

EX:

```

<div class="table-responsive">
<table class="table table-hover table-striped caption-top">
    <caption>Products List</caption>
    <thead>
        <tr>
            <th>Name</th>
            <th>Price</th>
            <th>Stock</th>

            <th>Name</th>
            <th>Price</th>
            <th>Stock</th>

```

```

        </thead>
    </table>
</div>

```

## Bootstrap Badge

```

.badge
.badge-pill           [using border and rounded]
.badge-primary,danger [using bg-color]

```

syntax:

```

<button>
    <span class="badge bg-dark rounded rounded-circle">4</span>
    Notifications
</button>

```

EX:

```

<h2>Badge</h2>
<button class="btn btn-primary">
    <span class="bi bi-bell"></span>

    <span>Notifications</span>
    <span class="badge bg-dark rounded rounded-circle ">5</span>
</button>

```

## Bootstrap Spinners

```

.spinner-border[sm]
.spinner-grow[sm]

```

syntax: <span class="spinner-border spinner-border-sm"></span>

Note: colors are defined with "text-contextual"

EX:

```

<h2>badge</h2>
<button class="btn btn-primary">
    <span class="spinner-grow spinner-grow-sm">

    </span>    Loading...
</button>
<span class="spinner-border text-danger">Load</span>

```

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=====

## Bootstrap Progress

-HTML progress is defined with <progress> element.  
 -Bootstrap progress allows labels and content inside.

```

.progress      :it is a collection of progress bars.
.progress-bar  :it is used to configure a progress bar.
                The value for progress bar is defined with "width" attribute using
style.

```

```

<div class="progress-bar" style="width: 40%"></div>
The color for progress bar is defined with bg-contextual.

```

```

        <div class="progress-bar bg-danger" style="width: 40%">
.progress-bar-striped
.progress-bar-animated
syntax:
    <div class="progress">
        <div class="progress-bar progress-bar-striped progress-bar-animated">
        </div>
    </div>
EX:
    <h3>html Progress</h3>
    <progress min="1" max="100" value="40"></progress>
    <h3>Bootstrap Progress</h3>
    <div class="progress">
        <div class="progress-bar progress-bar-striped bg-success" style="width:
40%;">
            40% Completed
        </div>
        <div class="progress-bar progress-bar-animated progress-bar-striped
bg-warning" style="width: 60%;">
            60% remaining
        </div>
    </div>

```

## Pagination

```

.pagination
.page-item
.page-link
.pagination-lg
.pagination-sm

```

Syntax:

```

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

```

EX:

```

    <h2>Products Table</h2>
    <table class="table table-hover">
        <thead>
            <tr>
                <th>Name</th>
                <th>Price</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>TV</td>
                <td>6400</td>
            </tr>
            <tr>
                <td>TV</td>

```

```

        <td>6400</td>
    </tr>
</tbody>
<tfoot>
    <tr>
        <td colspan="2">
            <ul class="pagination pagination-sm">
                <li class="page-item"><a class="page-link"
href="#">&laquo;</a></li>
                <li class="page-item active"><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="#">4</a></li>
                <li class="page-item"><a class="page-link"
href="#">&raquo;</a></li>
            </ul>
        </td>
    </tr>
</tfoot>
</table>

```

#### Bootstrap Nav

-Static navigation bar with collection of items and combination of tabcontent.

```

.nav
.nav-pills
.nav-fill
.nav-item
.nav-link
.tabcontent
.tab-pane

```

Note: The target for button and hyperlink will change in jQuery.

:Button uses click to toggle

:Link uses href to toggle

EX: `<button onclick="alert('Inserted')">Insert</button>`  
`<a href="javascript:alert('Deleted')">Delete</a>`

:Anchor element doesn't require "target".

`<a href="#target" data-bs-toggle="component">`

:Bootstrap 5 prefers using button for handling click instead of anchors.

EX: `<button class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#registerModal">`

```

        Register</button>
<a href="#loginModal" data-bs-toggle="modal">Login</a>

```

Syntax: Nav with tabs

```

<ul class="nav nav-tabs">
  <li class="nav-item active">
    <button class="nav-link" data-bs-toggle="tab"
data-bs-target="#preview"></button>
  </li>
</ul>
<div class="tab-content">
  <div class="tab-pane active show fade" id="preview">
    your content.....
  </div>
</div>

```

EX:<h2>Product Info</h2>

```

<ul class="nav nav-tabs">
  <li class="nav-item active">
    <button data-bs-toggle="tab" data-bs-target="#basic" class="nav-link">
      Basic Details
    </button>
  </li>
  <li class="nav-item">
    <button data-bs-toggle="tab" data-bs-target="#preview" class="nav-link">
      Preview
    </button>
  </li>
  <li class="nav-item">
    <button
      data-bs-toggle="tab"
      data-bs-target="#description"
      class="nav-link"
    >
      Description
    </button>
  </li>
</ul>
<div class="tab-content">
  <div class="tab-pane show fade active" id="basic">
    <h2>Basic Details</h2>
    <dl>
      <dt>Name</dt>
      <dd>Boat NeckBand</dd>
      <dt>Price</dt>
      <dd>4599</dd>
    </dl>
  </div>
  <div class="tab-pane show fade" id="preview">

```

```

<h2>Preview</h2>
<dl>
  
</dl>
</div>
<div class="tab-pane" id="description">
  <h2>Description</h2>
  <p>
    Lorem ipsum dolor Repellat magnam minus eligendi provident rem
    cupiditate neque perferendis est perspiciatis molestiae?
  </p>
</div>
</div>

```

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=====

### Dynamic Navigation Bar

-it is responsive navigation bar with collapseable menu.

```

.navbar
.navbar-expand
.navbar-expand-lg
.navbar-brand
.navbar-toggle
.navbar-toggler-icon
.navbar-nav
.navbar-collapse
.bg-dark, bg-light  [themes for navigation]
.navbar-dark        ]
.navbar-light        ]dark and light themes for contextual colors

```

Note:Navbar toggler uses collapse for navbar to show or hide the toggler button and also the menu items.

```

:it requires the attributes
  data-bs-target=menuid
  data-bs-toggle=collapse

```

:it uses predefined media queries to show or hide the toggler, hence u have to define in "container-fluid".

syntax:

```

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container-fluid">
    <a class="navbar-brand">...</a>
    <button class="navbar-toggler">
      <span class="navbar-toggler-icon"></span>
    </button>
  </div>
</nav>

```

```

        <div class="collapse navbar-collapse" id="menu">
            <ul class="navbar-nav">
                <li class="nav-item"><a class="nav-link">Home</a></li>
            </ul>
        </div>
    </div>
</nav>

```

EX:

```

<style>
    iframe {
        border: none;
        height: 700px;
    }
</style>

<nav class="navbar navbar-expand-lg navbar-dark bg-dark ">
    <div class="container-fluid">
        <button class="navbar-toggler" data-bs-target="#menulist"
data-bs-toggle="collapse">
            <span class="navbar-toggler-icon"></span>
        </button>
        <a class="navbar-brand" href="#">
            <span class="bi bi-cart4"></span>Amazon
        </a>

        <div class="collapse navbar-collapse" id="menulist">
            <div class="d-flex justify-content-between">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a class="nav-link" target="frameBody"
href="44accordion.html">Home</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" target="frameBody"
href="44InputGroup.html">About</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="43formsBootstrap.html">Contact</a>
                    </li>
                </ul>
                <div>
                    <form action="" class="input-group">
                        <input type="text" class="form-control">
                        <button class="btn btn-warning">Search</button>
                    </form>
                </div>
            </div>
        </div>
    </div>

```

```
        </div>
    </nav>
    <section class="mt-2">
        <iframe src="44accordion.html" name="frameBody" frameborder="0"
width="100%">

        </iframe>
    </section>
```