Boostrap 5 Tutorial:-

Box Model:-

* The CSS box model is essentially a box that wraps around every HTML element. It consists of  
  : margins, borders, padding, and the actual content.

Bootstrap: StartUp Layout:-

* The Start-Up layout of Bootstrap has available on the Bootstrap site.

Bootstrap: Container Layout:-

* Container Has two Types:-
* 1. Container
* 2. container-fluid.

1. Container:- Container has a fixed width.

-They are used for the display size to be fixed.

2. Container-fluid:- Container-fluid has an auto-describe device length.

- That is tacked the length of the device.

Bootstrap: Grid:-

* The Bootstrap grid system has 12 columns across the page.
* Class=” col” => Col class has auto-tack the device width and is easily set up.

There’s type is:-

* XS – Extra Small
* Sm – mobile/iPad
* Md – iPad/desktop
* Lg –
* Xl – extra large
* Bootstrap has five classes:-

-.col auto column value.

-col-xs- (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-(Extra large devices - screen width equal to or greater than 1200px)
* .. col-XXL- (Extra Extra large devices screen width equal to or greater than 1400px).

Bootstrap:- Rough Layouts

* Simple Container
* Container With Header and Footer with Column.
* Container With Header, Footer, And 2 Column Layout.
* Container With Header, Footer, and 3-column Layout.

Bootstrap: Theme Color

Like:-

Primary :- Light Blue

Secondary:- dark gray

Success:- Green

Danger:- Red

Warning:- yellow.

Info:-

Light:- white

Dark:- Black.

* According to the theme.

Overflow:-

* Overflow has made the item not set in the frame adjust.
* Overflow:- Scroll. => over-flow
* Overflow-y:- Scroll => make the scroll in row
* Overflow-x:- Scroll => make the scroll in column.

Breadcrumb:- BradCrums are used for the link to make the directions and they are mostly used in Mac.

Bootstrap : Navbar:-

* An outer wrapper - Navbar
* for branding - navbar-brand
* For Links - navbar-link
* For theming - navbar-light = In this class we can customize color using the class in CSS.
* for responsiveness - navbar-expand-lg
* For Toggle navbar Menu - navbar-toggler
* for the static position - fixed-top, fixed-bottom, sticky-top.

Position-Fixed:- Are Used For The fixed position when you scroll the screen the fixed item also the move.

Position Sticky:- Are like position-Fixed but the difference is when you scroll the screen sticky item are fixed in like header and footer. The screen scrolls but the item is fixed.

Bootstrap : Card:-

* card
* card-body
* card-title
* card-subtitle
* card-text
* card-link
* Size of image:- <img src="imglink/200\*200" > => 200 \* 200 are described as width and height.

Bootstrap: Link:-

* <ul class="list-group"> <li class="list-group-item">Dapibus ac facilisis in </li> <li class="list-group-item">Porta ac consectetur ac</li></ul> => This is the list item they add item list and add as per your use.
* Active:- This class In item is used for the item can active and background-color is blue.
* Disable:- Disable classes are used for the use of property that can make it unusable.

Bootstrap: Table:-

* Another wrapper-table
* For alternate rows colored - table-striped => Alternate one row has been colorized.
* For hover rows - table-hover => when the cursor moves on the table the table row has been colorized per cursor position.
* For theming - navbar-light
* For aligning data- align-middle, align-bottom => the data will give the position of the table like they have in the middle and set in the bottom.
* For responsiveness - table-responsive => make a table size as per the device width.
* For breakpoint position - table-responsive-md, table-responsive-sm

Bootstrap : Button:-

* Main class - btn
* For colors - btn-primary, but-secondary => this makes the color of the button.
* for outline - btn-outline-primary, but-outline-secondary => this line makes the button outline.
* for size - btn-sm, btn-md => This is the class used for the button size.
* Disabled state – disabled => disable are used for the button size.

Bootstrap: Button Groups:-

* This is an example of the bootstrap button group and they have to make the almost same class define as they have a group.
* <div class="btn-group" role="group" aria-label="Basic example"> <button type="button" class="btn btn-primary">Left</button> <button type="button" class="btn btn-primary">Middle</button> <button type="button" class="btn btn-primary">Right</button></div>

Bootstrap : Alert:-

* Bootstrap alerts make the alert on the page refresh or make the button alert
* Code:-
* <div class="alert alert-primary" role="alert">

<h4 class="alert-heading">Well done!</h4> A simple primary alert with

<a href="#" class="alert-link">an example link </a>,

Give it a click if you like. </div>

* If you want to add functionality to remove the alert when clicking on add button add the Below Line:-class="btn-close" data-dismiss="alert" aria-lable="Close"

<div class="alert alert-warning alert-dismissible fade show" role="alert">

<strong>Holy guacamole!</strong>You should check in on some of the fields below.

<button type="button" class="btn-close" data-dismiss="alert" aria-lable="Close"></button>

</div>

Bootstrap : Model:-

* In the bootstrap model for the pop-Up view In the button, we have to make sure the add below two items:-

1. data-bs-toggle="modal"

2. data-bs-target="#exampleModal" => id is matched with the pop-up code.

* The Pop-Up data show code:-
* <div class="modal" tabindex="-1">
* <div class="modal-dialog">
* <div class="modal-content">
* <div class="modal-header">
* <h5 class="modal-title">Modal title</h5>
* <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
* </div>
* <div class="modal-body">
* <p>Modal body text goes here.</p>
* </div>
* <div class="modal-footer">
* <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
* <button type="button" class="btn btn-primary">Save changes</button>
* </div>
* </div>
* </div>
* </div>

Bootstrap : Collapse:-

* Collapse is used the data will show when the button will click and the collapse when the button is pressed.
* Make sure to add two items to the button:-

1. data-bs-toggle="collapse"

2. data-bs-target="#multiCollapseExample2"

3. aria-controls="multiCollapseExample1 multiCollapseExample2"

* The above item matches the container Id:-
  + class="collapse multi-collapse" id="multiCollapseExample1"

Bootstrap: Forms:-

* Input :- - Form Label - Form Control
* Radio & Checkbox :- - form check - Form Check label
* Select:- - form-select
* Floating - form-floating

Bootstrap : DroupDown:-

* That will be using the Add the dropdown item:-
* And you can change the same class according to your use.
* Code:-

<div class=" dropdown show">

<a class="btn btn-secondary dropdown-toggle" href="#" role="button" id="dropdownMenuLink" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

Dropdown link

</a>

<div class="dropdown-menu" aria-labelledby="dropdownMenuLink">

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

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

<a class="dropdown-item" href="#">Something else here</a>

</div>

</div>

Boostrap :- TripTool :-

* That will use when the mouse is hovering over the item on the message are the display.
* This method has two conditions:-

1. Add bootstrap and popper files in the layout

2. Add a popper file before the bootstrap file.

=>

=> <a href="#" data-toggle="tooltip" title="Some tooltip text!">Hover over me</a>

<!-- Generated markup by the plugin -->

<div class="tooltip bs-tooltip-top" role="tooltip">

<div class="arrow"></div>

<div class="tooltip-inner">

Some tooltip text!

</div>

</div>

Boostrap :- Popover:-

* just like ToolTip - Popover used popper.js
* -so before using it make sure you have includes it in your app.
* Code:-

<button type="button" class="btn btn-lg btn-danger" data-toggle="popover" title="Popover title" data-content="And here's Some amazing content. it's very engaging.Right?">Click tp toggle popover</button>

Bootstrap: Progress:-

* ProgressBar is used to make the display work of the process.
* And that defines are minimum and maximum value of the process bar.
* Code:-

<div class="progress"><div class="progress-bar" role="progressbar" aria-valuenow="0" aria-valuemin="0" aria-valuemax="100"></div><div class="progress"><div class="progress-bar progress-bar-striped" role="progress bar" style="width:10%" aria-valuenow="10" aria-valuemin="0" aria-valuemax="100"></div></div>

Bootstrap Spinners:-

* “spinners” can be used to show the loading state in your projects.
* They’re built only with HTML and CSS, meaning you don’t need any JavaScript to create them.
* You will, however, need some custom JavaScript to toggle their visibility.
* Their appearance, alignment, and sizing can be easily customized with our amazing utility classes.
* For accessibility purposes, each loader here includes role="status" and a nested <span class="visually-hidden">Loading...</span><div class="spinner-border text-primary" role="status"> <span class="visually-hidden">Loading...</span></div><div class="spinner-border text-Secondary"role="status"> <span class="visually-hidden">Loading...</span></div>

Bootstrap : Toasts:-

* Toasts are lightweight notifications designed to mimic the push notifications that have been popularized by mobile and desktop operating systems.
* They’re built with a flexbox, so they’re easy to align and position.
* Code;-

<div class="toast" role="alert" aria-live="assertive" aria-atomic="true"> <div class="toast-header"> <img src="..." class="rounded me-2" alt="..."> <strong class="me-auto">Bootstrap</strong> <small class="text-mute">11 mins ago</small> <button type="button" class="btn-close" data-dismiss="toast" aria-label="Close"></button> </div> <div class="toast-body"> Hello, world! This is a toast message. </div></div>Bootstrap : Typography:-

* Typography is used for the common style used and they make the changes in position, border, etc.
* Standard code throughout
* Common style guides
* Easy to understand and extend with new team members
* Headings, Padding, Gutters, Border, Background, Color, Text color, etc
* Code:-

<div class="container px-4"><div class="row gx-5"><div class="col"><div class="p-3 border bg-light">Custom colomn padding</div></div></div></div>

Bootstrap: Range:-

* Create custom <input type="range"> controls with .form-range
* Code:-

<label for="customRange1" class="form-label">Example range</label><input type="range" class="form-range" id="customRange1">

* Disabled:- Range property can make the disabled.<label for="disabledRange" class="form-label">Disabled range</label><input type="range" class="form-range" id="disabledRange" disabled>
* Min and max:- It can make select the min and max values.

<label for="customRange2" class="form-label">Example range</label><input type="range" class="form-range" min="0" max="5" id="customRange2">

* steps in the range:- <label for="customRange3" class="form-label">Example range</label><input type="range" class="form-range" min="0" max="5" step="0.5" id="customRange3">

Bootstrap: Figure:-

* Figure classes are used for the set image-like card and add the caption below the image.
* Anytime you need to display a piece of content—like an image with an optional caption, consider using a <figure>.
* Use the included .figure, .figure-img, and .figure-caption classes to provide some baseline styles for the HTML5 <figure> and <figcaption> elements. Images in figures have no explicit size, so be sure to add the .img-fluid class to your <img> to make it responsive.
* Code:-

<figure class="figure"> <img src="..." class="figure-img img-fluid rounded" alt="..."> <figcaption class="figure-caption">A caption for the above image.</figcaption></figure>

* Bove code img tag is used for taking the image link,
* And the Figcaption is used for the add caption below the image.

Bootstrap Carousel:-

* This cursor is used for the slide bar to saw information on the screen.
* The carousel is a slideshow for cycling through a series of content, built with CSS 3D transforms and a bit of JavaScript.
* It works with a series of images, text, or custom markups. It also includes support for previous/next controls and indicators.
* Code:-

<div id="carouselExampleSlidesOnly" class="carousel slide" data-bs-ride="carousel"> <div class="carousel-inner"> <div class="carousel-item active"> <img src="..." class="d-block w-100" alt="..."> </div> <div class="carousel-item"> <img src="..." class="d-block w-100" alt="..."> </div> <div class="carousel-item"> <img src="..." class="d-block w-100" alt="..."> </div> </div></div>

Bootstrap: Breadcrumb:-

* Indicate the current page's location within a navigation hierarchy that automatically adds separators via CSS
* Easy way to provide users with navigation and quick jump to links
* Code:-

<nav aria-label="breadcrumb"> <ol class="breadcrumb"> <li class="breadcrumb-item"><a href="#">Home</a></li> <li class="breadcrumb-item"><a href="#">Library</a></li> <li class="breadcrumb-item active" aria-current="page">Data</li> </ol></nav>

Bootstrap : Accordions:-

* The accordion uses collapse internally to make it collapsible. To render an accordion that’s expanded, add the .open class on the .accordion,
* Easy way to provide users with navigation and quick jump to links.
* Important Classes to Remember:- class="accordion"class="accoridon-item"class="accordion-body"class="accordion-body"collapsed

Bootstrap: Nav & Tabs :-

* Navigation available in Bootstrap shares general markup and styles,
* from the base .nav class to the active and disabled states.
* Easy way to provide users with navigation and jump to links
* Code:-<ul class="nav"> <li class="nav-item"> <a class="nav-link active" aria-current="page" href="#">Active</a> </li> <li class="nav-item"> <a class="nav-link" href="#">Link</a> </li> <li class="nav-item"> <a class="nav-link" href="#">Link</a> </li> <li class="nav-item"> <a class="nav-link disabled" href="#" tabindex="-1" aria-disabled="true">Disabled</a> </li></ul>

Bootstrap: Placeholders:-

* That can be used for the where the screen we loaded the screen displays some load content in the screen.
* placeholder can be used to enhance the experience of your application.
* They're built only with HTML and CSS, meaning you don't need any javascript to create them
* and don't need any javascript to create a theme
* Awesome experience for users when data is loading or when processing requests.
* Code:-<div class="card" aria-hidden="true"> <img src="..." class="card-img-top" alt="..."> <div class="card-body"> <h5 class="card-title placeholder-glow"> <span class="placeholder col-6"></span> </h5> <p class="card-text placeholder-glow"> <span class="placeholder col-7"></span> <span class="placeholder col-4"></span> <span class="placeholder col-4"></span> <span class="placeholder col-6"></span> <span class="placeholder col-8"></span> </p> <a href="#" tabindex="-1" class="btn btn-primary disabled placeholder col-6"></a> </div> </div>Bootstrap : Scrollspy:-
* They are used for the when I click any point of the section the display are go to that point when I click.
* Scrollspy toggles the .active class on the anchor (<a>) element when the element with the id referenced by the anchor's href is scrolled into view.
* ScrollSpy is best used with Navigation where users can be taken to a particular section quickly with smooth scrolling.
* Code;- <li class="nav-item dropdown"> <a class="nav-link dropdown-toggle" data-bs-toggle="dropdown" href="#" role="button" aria-expanded="false">Dropdown</a> <ul class="dropdown-menu"> <li><a class="dropdown-item" href="#scrollspyHeading3">Third</a></li> <li><a class="dropdown-item" href="#scrollspyHeading4">Fourth</a></li> <li><hr class="dropdown-divider"></li> <li><a class="dropdown-item" href="#scrollspyHeading5">Fifth</a></li> </ul> </li><h4 id="scroll spy-heading3">Third heading</h4>

Bootstrap: Pagination:-

* We use a large block of connected links for our pagination, making links hard to miss and easily scalable—all while providing large hit areas.
* Pagination is built with a list of HTML elements so screen readers can announce the number of available links.
* Use a wrapping <nav> element to identify it as a navigation section to screen readers and other assistive technologies.
* Code:-

<nav aria-label="Page navigation example"> <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"><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></nav>

Bootstrap: position:-

* That position is used for any data that will adjust the position on the screen.
* Fixed:- These are used for when the screen is the scroll the alignment is fixed as it is their position.
* Sticky:- Sticky is used for the screen are scrolled the data will auto scrolls and the put the fixed the bottom or top.
* - fixed-top- fixed-bottom- sticky-top- sticky-bottom<div class="fixed-top">...</div><div class="sticky-top">...</div><div class="sticky-bottom">...</div>

Bootstrap Border:-

* Use border utilities to add or remove an element’s borders. Choose from all borders or one at a time.
* important classes to remember :
* below classes is the use of the given different sets of the border layout.

- border- border-2/border-3/border-4/border-5- border-top- border-end- border-start- border-bottom- border-border-success/border-danger/border-info/border-warning- border-opacity/border-opacity-100/border-opacity-75 border-opacity-50- rounded- rounded/ rounded-pill/rounded-circle- rounded-0/ rounded-1/ rounded-2/ rounded-3/ rounded-5

bootstrap :- Text :-

* Easily realign text to components with text alignment classes.
* Important classes to remember:-
* Below the class is the use of the set of text arrangements.

- text-start- text-center- text-end- text-wrap = This will use the text set in the new line. - text-break- text-lowercase- text-uppercase- fs-1 /fs-2 / fs-3/ fs-5- lh-1/ lg-base/ lh-lg

* text-decoration-underline / text-decoration-line-throught / text-decoration-noneBootstrap : Shadows:-
* Add or remove shadows to elements with box-shadow utilities
* Important classes to remember:-<div class="shadow-none p-3 mb-5 bg-light rounded">No shadow</div><div class="shadow-sm p-3 mb-5 bg-body rounded">Small shadow</div><div class="shadow p-3 mb-5 bg-body rounded">Regular shadow</div><div class="shadow-lg p-3 mb-5 bg-body rounded">Larger shadow</div>