

MODULE: 8 (BootStrap Basic & Advanced)

1. What are the advantages of Bootstrap?

- Easy to use: Anybody with just basic knowledge of HTML and CSS can start using Bootstrap.
- Responsive features: Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- Mobile-first approach: In Bootstrap, mobile-first styles are part of the core framework
- Browser compatibility: Bootstrap 5 is compatible with all modern browsers (Chrome, Firefox, Edge, Safari, and Opera).

2. What is a Bootstrap Container, and how does it work?

- Containers are a fundamental building block of Bootstrap that contain, pad, and align your content within a given device or viewport.
- Containers are the most basic layout element in Bootstrap and are required when using our default grid system.
- Basically container are used when we use media query.
- .container, which sets a max-width at each responsive breakpoint
- .container-{breakpoint}, which is width: 100% until the specified breakpoint
- .container-fluid, which is width: 100% at all breakpoints

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	X-Large ≥1200px	XX-Large ≥1400px
<code>.container</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-sm</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-md</code>	100%	100%	720px	960px	1140px	1320px
<code>.container-lg</code>	100%	100%	100%	960px	1140px	1320px
<code>.container-xl</code>	100%	100%	100%	100%	1140px	1320px
<code>.container-xxl</code>	100%	100%	100%	100%	100%	1320px
<code>.container-fluid</code>	100%	100%	100%	100%	100%	100%

3. What are the default Bootstrap text settings?

- Bootstrap 4 uses a default font-size of 16px, and its line-height is 1.5.
- The default font-family is "Helvetica Neue", Helvetica, Arial, sans-serif.

4. What do you know about the Bootstrap Grid System?

- When we want to set the col we use grid.
- The total size of the col is 12.
- There are different screen size available in bootstrap

Xs- extra small <576px `.col-`

Sm- small >576px `.col-sm`

md- medium >768px `.col-md`

lg- large screen >992px `.col-sm`

xl- extra large screen >1200px `.col-xl`

xll- tv screen >1400px `.col-xll`

5. What is the difference between Bootstrap 4 and Bootstrap 5?

BASIS OF	BOOTSTRAP 4	BOOTSTRAP 5
Grid System	It has 5 tier (xs, sm, md, lg, xl).	It has 6 tier (xs, sm, md, lg, xl, xxl).
Color	It has limited colors.	Extra colors added with the looks, A card improved color palette. there are various shades available to choose.
Jquery	It has jquery and all related plugins.	Jquery is removed and switched to vanilla JS with some working plugins
Internet Explorer	Bootstrap 4 supports both IE 10 and 11.	Bootstrap 5 doesn't support IE 10 and 11.
Form elements	Radio buttons, checkboxes have different look in different OS and browsers. The form uses whatever default browsers provide.	The look of form elements will not change, on different OS or browser. The forms can be customized and form controls can be added, they would not depend on browser.
Utilities API	We cannot modify utilities in bootstrap 4	Bootstrap 5 gave freedom to modify and also create our own utility
Gutter	We use .glutter with fontsize in px	We use .g* with fontsize in rem
Vertical Classes	Columns can be positioned relative	Columns cannot be positioned relative
Bootstrap Icons	Bootstrap 4 doesn't have its own SVG icons, we have to use font-awesome for icons.	Bootstrap 5 have its own SVG icons
Jumbotron	It supports.	It doesn't support jumbotron.
Card deck	The card deck is used to create a set	Card deck class is removed in

BASIS OF	BOOTSTRAP 4	BOOTSTRAP 5
	of cards with equal width and height.	bootstrap
Navbar	We have inline-block property and we will get white dropdown as default for dropdown-menu-dark class.	Inline-block property is removed and we will get black dropdown as default for dropdown-menu-dark class.
Static Site Generator	Bootstrap 4 uses Jekyll software.	Bootstrap 5 uses Hugo software as it is fast static site generator.
flexbox grid	this makes easier to implement vertical designs, and the columns and rows can easily be implemented. the classes justify-center-content can directly be used to align according to the requirement.	advanced grid system is made available , also columns don't have relative positions.
RTL Support	It does not enable RTL(Right to Left) switching.	It enables RTL(Right to Left) switching.
Offcanvas Component	It does not support Offcanvas Component.	It supports Offcanvas Component(that is it is available now).

6. What is a Button Group, and what is the class for a basic Button Group?

- When we want to set the group of button into one line then we use button group.
- The class is btn-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>
```

7. How can you use Bootstrap to make thumbnails?

- For rounded image we can use to give an image a rounded 1px border.

```

```

8. In Bootstrap 4, what is flexbox?

- Flexbox is used to quickly manage the layout, alignment and sizing of grid columns, navigation, components, and more with a full suite of responsive flexbox utilities.

Flexbox Properties:

- Enable flex behaviors
 - Direction
 - Justify content
 - Align items
 - Align self
 - Auto margins with justify-content
 - Auto margins with align-items
 - Wrap
 - Order
 - Align content
-

9. How can one create an alert in Bootstrap?

- Using a alert class we have to create a alert box.

```
<div class="alert alert-primary" role="alert">
```

A simple primary alert—check it out!

```
</div>
```

```
<div class="alert alert-secondary" role="alert">
  A simple secondary alert—check it out!
</div>
<div class="alert alert-success" role="alert">
  A simple success alert—check it out!
</div>
<div class="alert alert-danger" role="alert">
  A simple danger alert—check it out!
</div>
<div class="alert alert-warning" role="alert">
  A simple warning alert—check it out!
</div>
<div class="alert alert-info" role="alert">
  A simple info alert—check it out!
</div>
<div class="alert alert-light" role="alert">
  A simple light alert—check it out!
</div>
<div class="alert alert-dark" role="alert">
  A simple dark alert—check it out!
</div>
```

10. What is a bootstrap card and how would you create one?

- A **card** is a flexible and extensible content container. It includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display options.
- We can make a card using various classes.

Classes

- a. Card
- b. Card-img-top
- c. Card-body
- d. Card-title
- e. Card-text

```
<div class="card" style="width: 18rem;">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">Some quick example text to build on the card
title and make up the bulk of the card's content.</p>
    <a href="#" class="btn btn-primary">Go somewhere</a>
  </div>
</div>
```