# **Assignment**

# **Bootstrap Basic & Advanced**

#### 1. What are the advantages of Bootstrap?

- ➤ The Top 10 advantages of bootstrap are:
  - Easy initiation.
  - Coding is a hurricane task for a person who is unbeknown to web development.
  - Responsiveness
  - Highly customizable
  - Extremely user-centric
  - Top-notch support
  - Cross-browser compatibility
  - JavaScript plugins to your rescue
  - Far-reaching popularity

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

- ➤ Containers are the most basic layout element in Bootstrap and are required when using our default grid system. Containers are used to contain, pad, and (sometimes) Center the content within them. While containers can be nested, most layouts do not require a nested container.
- ➤ Bootstrap comes with three different containers:
- > container, which sets a max-width at each responsive breakpoint
- > container-fluid, which is width: 100% at all breakpoints
- > container-{breakpoint}, which is width: 100% until the specified breakpoin.

#### 3. What are the default Bootstrap text settings?

- Bootstrap 4 Default 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.
- ➤ In addition, all elements have margin-top: 0 and margin-bottom: 1rem (16px by default).

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

➤ layout and align content. It's built with flexbox and is fully responsive.

Below is an example and an in-depth look at how the grid comes together.

One of three columns

One of three columns

One of three columns

<div class="container">

<div class="row">

<div class="col-sm">

One of three columns

</div>

<div class="col-sm">

One of three columns

</div>

<div class="col-sm">

One of three columns

</div>

</div>

</div>

➤ The above example creates three equal-width columns on small, medium, large, and extra large devices using our predefined grid classes. Those columns are centered in the page with the parent .container.

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

BASIC 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).
Colour	It has limited colours.	Extra colours added with the looks, A card improved colour 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

Laternal	Destatues Assume autological	Destatues E desemble
Internet	Bootstrap 4 supports both IE	Bootstrap 5 doesn't
Explorer	10 and 11.	support IE 10 and 11.
Form	Radio buttons, checkboxes	The look of form elements
elements	have different look in	will not change, on
	different OS and browsers.	different OS or browser.
	The form uses whatever	The forms can be
	default browsers provide.	customized and form
		controls can be added,
		they would not depend on
		browser.
Utilities API	We cannot modify utilities in	We cannot modify utilities
	bootstrap 4	in bootstrap 4
Gutter	We use .gutter with font size	We use .g* with font size
	in px	in rem
Vertical	Columns can be positioned	Columns cannot be
Classes	relative	positioned relative
Bootstrap	Bootstrap 4 doesn't have its	Bootstrap 5 have its own
Icons	own SVG icons, we have to	SVG icons
	use font-awesome for icons.	
Jumbotron	It supports.	It doesn't support
		jumbotron.
Card deck	The card deck is used to	Card deck class in
Card deck	create a set of cards with	
		removed in bootstrap
Navbar	equal width and height.  We have inline-block	Inline block property is
INAVDAI		Inline-block property is
	property and we will get	removed and we will get
	white dropdown as default	black dropdown as default
	for dropdown-menu dark	for dropdown-menu-dark
Charia Cita	class.	class.
Static Site	Bootstrap 4 uses Jekyll	Bootstrap 5 uses Hugo
Generator	software.	software as it is fast static
		site generator.
flexbox grid	this makes easier to	advanced grid system is
	implement vertical designs,	made available, also
	and the columns and rows	columns don't have
	can easily be implemented.	relative positions.
	the classes justify-center-	
	content can directly be used	

	to align according to the	
	requirement.	
RTL Support	It does not enable RTL(Right	It enables RTL(Right to
	to Left) switching.	Left) switching.
Offcanvas	It does not support	It supports
Component	Offcanvas Component.	OffcanvasComponent
		(that is it is available
		now).

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

- "Button Groups" in Bootstrap is a class of name "btn-group" which is used to create series of buttons in groups (without spaces) vertically or horizontally.
- This is the basic syntax of the button group class where each button has its own class of "btn".

```
<div class="btn-group">
<button type="button"
class="btn">Click</button>
</div>
```

- > Buttons have a default border-radius on the first and last buttons of the group.
- ➤ Adding Styles on Buttons: Bootstrap allows you to add styles to your buttons using the following classes:
  - .btn-default
  - .btn-primary
  - .btn-success
  - .btn-info
  - .btn-warning
  - .btn-danger
  - .btn-link

# 7. How can you use Bootstrap to make thumbnails?

➤ Bootstrap helps web developers to create thumbnails that are used to show linked images in grids with the pre-defined classes which help to

- reduce codes length. Thumbnails are created to provide a quick preview of images with small images.
- ➤ Thumbnail Image: A thumbnail is a small image that represents a larger image. Bootstrap has an easy way to do this with thumbnails. Bootstrap's .thumbnail class is used to show linked images in grids (grid system), a thumbnail is created using class .thumbnail within the element . The class .col-sm-\* and .col-md-\* (where \* represent number ), it is used to create grids of the images.
- > Step by step guide for the implementation: Step 1: Include Bootstrap and jQuery CDN into the <head> tag before all other stylesheets to load our CSS. k rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootst rap/3.3.6/css/bootstrap.min.css"> <script src="https://ajax.googleapis.com/ajax/libs/jqu ery/1.12.0/jquery.min.js"></script> <script src="http://maxcdn.bootstrapcdn.com/bootstr ap/3.3.6/js/bootstrap.min.js"></script> Step 2: Add <div> tag in the HTML body with class row. In that <div> create four div sections to create four images. Step 3: Add "col-sm-6" and "col-md-3" to four div sections which creates webpage responsive. Step 4: Add <a> tag with class value thumbnail to define the link of the image in the next line. <a href="#" class="thumbnail">

### 8. In Bootstrap 4, what is flexbox?

➤ In Bootstrap 4, flex box is used to control the layout and alignment specification of Bootstrap 4 components. This box makes it easier to design

flexible responsive layout structures without using float or positioning attributes.

#### 9. How can one create an alert in Bootstrap?

- ➤ Bootstrap provides an easy way to create predefined alert messages: ×Success! This alert box indicates a successful or positive action. ×Info! This alert box indicates a neutral informative change or action. ×Warning! This alert box indicates a warning that might need attention. ×Danger! This alert box indicates a dangerous or potentially negative action.
- ➤ Alerts are created with the alert class, followed by one of the four contextual classes alert-success, alert-info, alert-warning or.alert-danger: Example

```
<div class="alert alert-success">
<strong>Success!</strong> Indicates a
successful or positive action.
</div>
<div class="alert alert-info">
<strong>Info!</strong> Indicates a neutral
informative change or action.
</div>
<div class="alert alert-warning">
<strong>Warning!</strong> Indicates a
warning that might need attention.
</div>
<div class="alert alert-danger">
<strong>Danger!</strong> Indicates a
dangerous or potentially negative action.
</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. If you're familiar with Bootstrap 3,

cards replace our old panels, wells, and thumbnails. Similar functionality to those components is available as modifier classes for cards.

#### > Example

Cards are built with as little markup and styles as possible, but still manage to deliver a ton of control and customization. Built with flexbox, they offer easy alignment and mix well with other Bootstrap components. They have no margin by default, so use spacing utilities as needed.

Below is an example of a basic card with mixed content and a fixed width. Cards have no fixed width to start, so they'll naturally fill the full width of its parent element. This is easily customized with our various sizing options.

Image cap

Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

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