**Module (Bootstrap Basic & Advanced) – 6**

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

Ans:

**1. Easy initiation**

### 2. Responsiveness

### 3. Highly customizable

### 4. Extremely user-centric

### 5. Top-notch support

### 6.Cross-browser compatibility

### 7. JavaScript plugins to your rescue

### 8. Far-reaching popularity

### 9. Ample documentation

### 10. Updates at the doorstep

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

### Ans:

### In Bootstrap, container is used to set the content's margins dealing with the responsive behaviors of your layout. It contains the row elements and the row elements are the container of columns (known as grid system). The container class is used to create boxed content.

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

Bootstrap 4 Default Settings

### Ans:

### 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 <p> elements have margin-top: 0 and margin-bottom: 1rem (16px by default).

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

### Ans:

### Bootstrap’s grid system uses a series of containers, rows, and columns to 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.

### Ex:

### <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>

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

**Ans:**

| **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 of cards with equal width and height. | Card deck class in removed in 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?

### Ans:

Bootstrap allows you to group a series of buttons together (on a single line) in a button group:

Use a <div> element with class .btn-group to create a button group:

## Vertical Button Groups

Bootstrap also supports vertical button groups:

Use the class .btn-group-vertical to create a vertical button group:

## Justified Button Groups

To span the entire width of the screen, use the .btn-group-justified class:

## Nesting Button Groups & Dropdown Menus

Nest button groups to create dropdown menus:

<div class="btn-group">  
  <button type="button" class="btn btn-primary">Apple</button>  
  <button type="button" class="btn btn-primary">Samsung</button>  
  <div class="btn-group">  
    <button type="button" class="btn btn-primary dropdown-toggle" data-toggle="dropdown">  
    Sony <span class="caret"></span></button>  
    <ul class="dropdown-menu" role="menu">  
      <li><a href="#">Tablet</a></li>  
      <li><a href="#">Smartphone</a></li>  
    </ul>  
  </div>  
</div>

## Split Button Dropdowns

<div class="btn-group">  
  <button type="button" class="btn btn-primary">Sony</button>  
  <button type="button" class="btn btn-primary dropdown-toggle" data-toggle="dropdown">  
    <span class="caret"></span>  
  </button>  
  <ul class="dropdown-menu" role="menu">  
    <li><a href="#">Tablet</a></li>  
    <li><a href="#">Smartphone</a></li>  
  </ul>  
</div>

7.How can you use Bootstrap to make thumbnails?

Ans:

This chapter discusses about Bootstrap thumbnails. A lot of sites need a way to lay out images, videos, text, etc, in a grid, and Bootstrap has an easy way to do this with thumbnails. To create thumbnails using Bootstrap −

Add an <a> tag with the class of **.thumbnail** around an image.

This adds four pixels of padding and a gray border.

On hover, an animated glow outlines the image.

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

## Ans:

## Flexbox

The biggest difference between Bootstrap 3 and Bootstrap 4 is that Bootstrap 4 now uses flexbox, instead of floats, to handle the layout.

The Flexible Box Layout Module, makes it easier to design flexible responsive layout structure without using float or positioning. If you are new to flex, you can read about it in our CSS Flexbox Tutorial.

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

**Ans:**

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

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

**Ans:**

A card in Bootstrap 5 is a bordered box with some padding around its content. It includes options for headers, footers, content, colors, etc.