

MODULE: 6 (Bootstrap Basic & Advance)

(1) What are the advantages of Bootstrap?

Ans -

Using the Bootstrap framework saves time in many ways by taking advantage of reusable code for Navbars, Dropdowns, Labels, Alerts, List groups and JavaScript plugins. Using the framework offers these design benefits:

- Easy to prevent repetitions among multiple projects
- Responsive design that can be used to adapt screen sizes and choose what shows and what doesn't on any given device
- Maintaining consistency among projects when using multiple developer teams
- Quick design of prototypes
- Cross-browser compatibility

(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 behaviours 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.

There are two container classes in Bootstrap:

container

container-fluid

(3) 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.

(4) What are the default Bootstrap text 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).

(5) What is a Button Group, and what is the class for a basic Button Group?

Ans -

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.

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

(6) How can you use Bootstrap to make thumbnails?

Ans -

Bootstrap's thumbnails are used to show linked images in grids with very minimum required markup, a thumbnail is created using class .thumbnail within the element <a>, The column grids are created using class .col-sm-* and .col-md-*, it is used to create grids of the images.

(7) What is the difference between Bootstrap 4 and Bootstrap 5.

Ans -

BASIS OF	BOOTSTRAP 4	BOOTSTRAP 5
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.
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.
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.
Offcanvas Component	It does not support Offcanvas Component.	It supports Offcanvas Component(that is it is available now).
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.
Static Site Generator	Bootstrap 4 uses Jekyll software.	Bootstrap 5 uses Hugo software as it is fast static site generator.

(8) In Bootstrap 4, what is flexbox?

Ans -

Flexbox is a new layout mode of CSS3 which is officially called CSS Flexible Box Layout Module. The main advantage of this layout mode is that it makes the following layout tasks easier:

- alignment of items,
- specification of the layout direction,
- specification of layout order of items.

(9) How can one create an alert in Bootstrap?

Ans -

Bootstrap Alerts are used to provide an easy way to create predefined alert messages. Alert adds a style to your messages to make it more appealing to the users.

There are four classes that are used within <div> element for alerts.

- .alert-success
- .alert-info
- .alert-warning
- .alert-danger

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

Ans -

Bootstrap's cards provide a flexible and extensible content container with multiple variants and options.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <link
```

```
    rel="stylesheet"
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"
  />
</head>
<body>
  <div class="card" style="width: 18rem">
    
    <div class="card-body">
      <h5 class="card-title">Rechard Taylor</h5>
      <p class="card-text">I am Web Developer.</p>
      <a href="#" class="btn btn-primary">See Full Profile</a>
    </div>
  </div>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```