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

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

Bootstrap enables designers and developers to build completely responsive websites quickly. It can be considered the most popular CSS framework for developing responsive and Mobile-First applications.

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?**

**Bootstrap Containers** are the most basic layout element in Bootstrap. Bootstrap **Containers**are very essential and basic building blocks of bootstrap that wrap a page’s content.

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.

**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. In addition, all <p> elements have margin-top: 0 and margin-bottom: 1rem.

**4) What do you know about the Bootstrap Grid System?**

Bootstrap's grid system is responsive, and the columns will re-arrange depending on the screen size: On a big screen it might look better with the content organized in three columns, but on a small screen it would be better if the content items were stacked on top of each other.

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.

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

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| --- | --- | --- |
| **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. |
| Form elements | Radio buttons, checkboxes have different look in different OS and browsers. | Whether it may be any OS or browsers, the look of form elements will not change. |
| Utilities API | We cannot modify utilities in bootstrap 4 | Bootstrap 5 gave freedom to modify and also create our own utility |
| 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 |
| 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. |
| 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 |
| RTL Support | t does not enable RTL(Right to Left) switching. | It enables RTL(Right to Left) switching. |
| Vertical Classes | Columns can be positioned relative | Columns cannot be positioned relative |
| 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?**

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”

**7) How can you use Bootstrap to make thumbnails?**

To create thumbnails using Bootstrap − 1. Add an tag with the class of .thumbnail around an image. 2. This adds four pixels of padding and a gray border. 3. On hover, an animated glow outlines the image.

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

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;

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

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.

**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.