Module (Bootstrap Basic & Advanced) – 6

• What are the advantages of Bootstrap?

Bootstrap provides responsive design with its grid system, ensuring compatibility across devices. It offers pre-styled, customizable components for consistent and efficient development. The framework is easy to use and backed by extensive community support, ensuring ample resources and plugins. Additionally, Bootstrap's mobile-first approach and JavaScript plugins enhance functionality and user experience.

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

A Bootstrap container is a fundamental layout component that serves as a wrapper for website content, ensuring proper alignment and spacing. It comes in two types: .container, which provides a responsive fixed-width layout that centers content and adjusts based on the viewport size, and .container-fluid, which stretches content to the full width of the viewport. Containers work in conjunction with Bootstrap's grid system, using rows and columns to organize content and apply horizontal padding to maintain consistent spacing.

• What are the default Bootstrap textsettings?

Bootstrap's default text settings include a base font size of 16px, a line height of 1.5, and a font family of -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, "Helvetica Neue", Arial, sans-serif. Headings, paragraphs, and links have specific styles for consistency and readability.

• What do you know about the Bootstrap Grid System?

The Bootstrap Grid System uses a 12-column layout to create responsive web designs. It allows for flexible and adaptive layouts by using containers, rows, and columns with classes that adjust based on screen size . The system supports nested columns, offsetting, and ordering for precise control over the layout.

• 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. |

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

Definition: A Button Group in Bootstrap is a component that allows you to group multiple buttons together on a single line, creating a toolbar-like appearance.

Purpose: Used for organizing related buttons, such as in toolbars or form actions.

Basic: Class: The class for a basic Button Group is .btn-group.

Alignment: Buttons within the group are aligned horizontally by default.

• How can you use Bootstrap to make thumbnails?

Bootstrap provides . thumbnail class.

Used for grid-like displays of images or content.

• In Bootstrap 4, what is flexbox?

Grid system in Bootstrap 4 uses Flexbox.

Facilitates responsive and flexible layouts.

• How can one create an alert in Bootstrap?

To create an alert in Bootstrap, use the. alert class along with contextual classes like. alert-success, alert-danger, alert-warning, or. alert-info.

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

A Bootstrap card is a flexible and extensible content container in the Bootstrap framework, designed to display various types of content, such as images, text, links, etc., in a structured format. It's a part of Bootstrap's grid system and helps in creating responsive layouts easily.

