**WD-ASSIGNMENT(5)**

**MODULE: 6 (Bootstrap Basic & Advance)**

**Q1. What are the advantages of Bootstrap?**

A1. Bootstrap is Easy to Use: Bootstrap is very easy and quite simple to use for designing and development. Being a new framework there is a lot to learn from it. It can be used with CSS, LESS or SaaS etc.

**Fast and Time-Saving Framework:** Bootstrap is an agile framework which is quite faster than other frameworks. It saves time due to its standard ready-made coding blocks, responsiveness, and cross-browser capabilities.

**Reinforcement of Grids:** One more recommendable feature is that bootstrap holds 12 column grid styles and supports responsiveness, counterbalance, and embedded elements. **A Pack of JavaScript Fundamentals:** Bootstrap supports Javascript Components so one don't require knowledge of scripting. It comprises JavaScript components like, tooltips, modal windows, alerts etc. to add functionalities easily.

**Support is Amazing:** Bootstrap is well-known for its big support community and agile response or online solution for the problems or queries. It also offers a great documentation along with examples and demo. It provides solutions to freshers and veterans alike.

**Bootstrap is totally Customizable:** It is developer friendly and can be customized as per the project requirements. Common CSS, utilities, Javascript Components, and components can compose the appearance to create ease for developers.

**Agile Responsive:** Bootstrap is a fully responsive platform supporting fluid grid layout. It crafts a mobile ready site smoothly and easily and sets web design as per the dimensions of the particular device.

**Bootstrap's Consistency:** Websites or mobile applications made with bootstrap technology can make you feel the awesome pairing of developers and designers ensuring consistency.

**Q2. What is a Bootstrap Container, and how does it work?**

Q3. 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.

.container

.container-fluid

**Q4. What are the default Bootstrap text settings?**

A4. Bootstrap 5 uses a default font-size of 1rem (16px by default), and its lineheight is 1.5. In addition, all <p> elements have margin-top: 0 and marginbottom: 1rem (16px by default).

**Q5. What do you know about the Bootstrap Grid System?**

A5. Bootstrap’s grid system uses a series of containers, rows, and columns to layout and align content. It’s built with [flexbox](https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Flexible_Box_Layout/Using_CSS_flexible_boxes) and is fully responsive.

Q6. **What is the difference between Bootstrap 4 and Bootstrap 5**

**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 |

**Q7. What is a Button Group, and what is the class for a basic Button Group?**

A7. Button groups allow multiple buttons to be stacked together on a single line. This is useful when you want to place items like alignment buttons together. You can add on optional JavaScript radio and checkbox style behavior with [Bootstrap Button Plugin](https://www.tutorialspoint.com/bootstrap/bootstrap_button_plugin.htm)

**Q8. How can you use Bootstrap to make thumbnails?**

A8. vA 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.

The following example demonstrates a default thumbnail −

<div class = "row">

<div class = "col-sm-6 col-md-3">

<a href = "#" class = "thumbnail">

<img src = "/bootstrap/images/kittens.jpg" alt = "Generic placeholder thumbnail">

</a>

</div>

<div class = "col-sm-6 col-md-3">

<a href = "#" class = "thumbnail">

<img src = "/bootstrap/images/kittens.jpg" alt = "Generic placeholder thumbnail">

</a>

</div>

**Q9. In Bootstrap 4, what is flexbox?**

A9. Flexbox is used to quickly manage the layout, alignment and sizing of grid columns, navigation, components, and more with a full suite of responsive flexbox utilities.

You can also do complex implementations using custom CSS.

**Q10. How can one create an alert in Bootstrap?**

A10. Alerts provide a way to style messages to the user. They provide contextual feedback messages for typical user actions.

Alert boxes are frequently used to draw user’s attention to information that needs their immediate focus, such as warning, error, or confirmation messages.

Creating Alerts

Bootstrap 5.3 offeres a total 8 different types of alerts which have been listed below:

Example

To create an alert we simply use .alert class

**Q11. What is a bootstrap card and how would you create one?**

A11. Bootstrap’s cards provide a flexible and extensible content container with multiple variants and options.

How to create a bootsrap card:

<div class="card" style="width: 18rem;">

<img src="..." class="card-img-top" alt="...">

<div class="card-body">

<h5 class="card-title">Card title</h5>

<p class="card-text">Some quick example text to build on the card title and make up the bulk of the card's content.</p>

<a href="#" class="btn btn-primary">Go somewhere</a>

</div>

</div>