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

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

* **Bootstrap is Easy to Use:** Bootstrap is very easy and quite simple to use for designing and development.
* **An Alliance is Quite Easy:**Bootstrap is a framework which is easily integrated with bulk frameworks uninterrupted with existing sites or the new one.
* **Fast and Time-Saving Framework:**Bootstrap is an agile framework that is quite faster than other frameworks.
* **Reinforcement of Grids:** One more recommendable feature is that bootstrap holds 12 column grid styles and supports responsiveness, counterbalance, and embedded elements.
* **Adhere to Basics:** Bootstrap is a framework that holds base styling HTML elements like, tables, typography, buttons, forms, images, lists, and icons, etc.
* **A Pack of JavaScript Fundamentals:** Bootstrap supports Javascript Components so one doesn't require knowledge of scripting.
* **Support is Amazing:**Bootstrap is well-known for its big support community and agile response or online solution for the problems or queries.
* **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 a fluid grid layout.
* **Bootstrap's Consistency:**Websites or mobile applications made with bootstrap technology can make you feel the awesome pairing of developers and designers ensuring consistency.

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

* 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.
* There are two container classes in Bootstrap:

1. container
2. container-fluid

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

* **Bootstrap 4 Default setting :-**
* 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?**

* 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.

**5.What is the difference between Bootstrap 4 and Bootstrap5**

|  |  |  |
| --- | --- | --- |
| **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 |
| **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. |

**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 a series of buttons in groups (without spaces) vertically or horizontally.

**7. How can you use Bootstrap to make 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?**

* 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.

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

Bootstrap provides an easy way to create predefined alert messages:

[**×**](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp)**Success!** This alert box indicates a successful or positive action.

[**×**](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp)**Info!** This alert box indicates a neutral informative change or action.

[**×**](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp)**Warning!** This alert box indicates a warning that might need attention.

[**×**](https://www.w3schools.com/bootstrap/bootstrap_alerts.asp)**Danger!** This alert box indicates a dangerous or potentially negative action.

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

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.4/dist/jquery.slim.min.js"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

<h2>Card Image</h2>

<p>Image at the top (card-img-top):</p>

<div class="card" style="width:400px">

<img class="card-img-top" src="img\_avatar1.png" alt="Card image" style="width:100%">

<div class="card-body">

<h4 class="card-title">John Doe</h4>

<p class="card-text">Some example text some example text. John Doe is an architect and engineer</p>

<a href="#" class="btn btn-primary">See Profile</a>

</div>

</div>

<br>

<p>Image at the bottom (card-img-bottom):</p>

<div class="card" style="width:400px">

<div class="card-body">

<h4 class="card-title">Jane Doe</h4>

<p class="card-text">Some example text some example text. Jane Doe is an architect and engineer</p>

<a href="#" class="btn btn-primary">See Profile</a>

</div>

<img class="card-img-bottom" src="img\_avatar6.png" alt="Card image" style="width:100%">

</div>

</div>

</body>

</html>