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

**1.What are the advantage of bootstrap?**

* There are so many advantages of bootstrap some are written under.
* **Responsiveness**
* **Highli customizable**
* **Cross-browser Compatibility**
* **Extremely user-centric**
* **Top-notch support**
* **JavaScript plugins to your rescue**
* **Far-reaching popularity**
* **Ample documentation**
* **Update at the doorstep**
* **Easy initiation**

**2.What is Bootstrap Container and how does it Work ?**

* There are to types of container class in Bootstrap 1).container , 2).container- fluid
* **<div class =”container”></div>**

**-> it is acquire 80% of width of screen.**

* **<div class = “container-fluid”></div>**

**->it is acquire 100% of width of screen.**

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

* Bootstrap uses a default font-size of 16px, 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 .
* Bootstrap’s grid system allows up to 12 columns across the page.
* The Bootstrap grid system has four classes:
* xs (for phones - screens less than 768px wide)
* sm (for tablets - screens equal to or greater than 768px wide)
* md (for small laptops - screens equal to or greater than 992px wide)
* lg (for laptops and desktops - screens equal to or greater than 1200px wide)

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

* In the alpha-1 version of bootstrap 5 some classes removed are:
* form – row
* form – inline
* list – inline
* card – deck
* Some of the added classes:
* **gx-\*** (classes control the horizontal/column gutter width)
* **gy-\*** (classes control the vertical/row gutter width)
* **g-\*** (classes control the horizontal & vertical gutter width)
* rows-cols-auto
* **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 color. | 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 events** | Radio buttons, checkboxes have different | The look of form elements will not change, |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | look in different OS and browsers. The form uses whatever default browsers provide | | | 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 |
| **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 |
| **Card deck** | The card deck is used to create a set of cards with  equal width and height. | | | Card deck class in removed in bootstrap |
| **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 |
| **Static Site Generator** | Bootstrap 4 uses Jekyll software. | | | Bootstrap 5 uses Hugo software as it is fast static site generator. |
| **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 |
| **RTL Support** | It does not enable RTL(Right to Left) switching | | | It enables RTL(Right to Left) switching |
| **Offcanvas Component** | It does not support Offcanvas Component. | | | It supports Offcanvas Component(that is it is  available now). |
| **Gutter** | We use .glutter with font-  size in px. | | | We use .g\* with font-size  in rem |

**6. What is 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”
* The basic class of button is “**btn**”
* There are some class of buttons
* .btn-default
* .btn-primary
* .btn-success
* .btn-info
* .btn-warning
* .btn-danger
* .btn-link

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

* Bootstrap's **.thumbnail** class is used to show linked images in grids (grid system).
* A thumbnail is created using class . thumbnail within the element <a>
* To create thumbnails following this three step.
* 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 ?**

* 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.
* This resion to use flexbox instead of floats.

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

* Bootstrap provides an easy way to create predefined alert messages:
* In Bootstrap alert are created using **.alert** class.
* There are four type of alert created by bootstrap.
* **.alert-Success: This alert box indicates a successful or positive action.**
* **.alert-info: This alert box indicates a neutral informative change or action.**
* **.alert-warning: This alert box indicates a warning that might need attention.**
* **.alert-danger: This alert box indicates a dangerous or potentially negative action.**

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

* In Bootstrap , 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 option.

<!DOCTYPE html>

<html>

<head>

<meta charset='utf-8'>

<meta http-equiv='X-UA-Compatible' content='IE=edge'>

<title>Bootstrap card</title>

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

<link

href=[" HYPERLINK "https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/css/boots"https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/boots](https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/css/boots) trap.min.css" rel="stylesheet" integrity="sha384- 1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap- icons@1.10.3/font/bootstrap-icons.css">

<style>

\*{

margin: 0;

padding: 0;

box-sizing: border-box;

}

.card-body{

background-color: lightgray; border-radius: 10px;

}

.card-body img{

background-color: darkolivegreen; border-radius: 7px 7px 0 0;

}

</style>

<script

src=[" HYPERLINK "https://cdn.jsdelivr.net/npm/%40popperjs/core%402.10.2/dist/umd/"https://cdn.jsdelivr.net/npm/@popperjs/core@2.10.2/dist/umd/](https://cdn.jsdelivr.net/npm/%40popperjs/core%402.10.2/dist/umd/) popper.min.js" integrity="sha384- 7+zCNj/IqJ95wo16oMtfsKbZ9ccEh31eOz1HGyDuCQ6wgnyJNSYdrPa03rtR1zdB" crossorigin="anonymous"></script>

<script

src=[" HYPERLINK "https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/js/bootstr"https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstr](https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/js/bootstr) ap.min.js" integrity="sha384- QJHtvGhmr9XOIpI6YVutG+2QOK9T+ZnN4kzFN1RtK3zEFEIsxhlmWl5/YESvpZ13" crossorigin="anonymous"></script>

</head>

<body>

<div class="container">

<div class="card-body col-md-4 col-sm-8 mx-auto mt-5">

<img src="Bootstrap-card-img.webp" class="w-100">

<h2 class=" mt-4 text-black">Richard Taylor</h2>

<h4 class="mt-4 text-black">CEO of D&D group of company</h4>

<button type="button" class="mt-4 btn btn-lg bg-primary text-white">See Profile</button>

</div>

</div>

</body>

</html>

