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| ASSIGNMENT |
| MODULE:6 |
|  |
| (Bootstrap Basic & Advanced) |

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

**Ans.** The first thing is that now days people use mobile, laptops, tabs, personal computers. if we have to reach our website to all people, we should spread our business more and more. The website should be such that everyone can read and view the content of your website well. so now we will not make different designs for different devices because may be a new mobile screen ratio may come tomorrow, on if a new laptop screen size is launched, then our website will not work well on it. So to avoid all this mess bootstrap is there. In which you have to create a website just once, then whatever the screen viewer opens the website on any screen, the UI (user interface) of the website will be shown well. And people create and sell templates from bootstrap which people use in wardress, joomla, drupal etc.,

1. **Saving Time:**

This is the biggest advantage of bootstrap that using it increases the development speed and etc work done in a very short time. On a contrary, if you want to create are responsive design without bootstrap by yourself, then you have a lot of time in it.

1. **Easy to Use:**

If you have basic knowledge of HTML and CSS, then you can easily use bootstrap.

1. **Responsive Design:**

Through bootstrap you can easily create responsive design. If your website is responsive then it adjusts itself according to the screen size in any platform or device like leptop, desktop, mobile etc.

1. **Cross Browser Compatible:**

Bootstrap is designs in such a way that our web-page will look the same in almost all modern browsers like Firefox, chrome, internet explorer, opera etc.

1. **Open Source:**

The best thing about it is that you can use it for free.

1. **Customization:**

Bootstrap is easy to customize, customize means that if you do not want all the features of bootstrap, you can only use a few features. On bootstrap’s website give you a lot of options (Nav bar, table, form, button, model, dropdown, budget, etc.) let you tick what you want, remove the tick from what you don’t want and download and use it. Do it all the CSF classes are already created in bootstrap, we just have to use those classes in our website and very easily and in a very short time. We create a beautiful website in this way, bootstrap reduce the time taken in our website development.

1. **What is a bootstrap container, and how does it work?**

**Ans.** 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. It’s a responsible for setting and aligning content within it according to a viewport or given device. Containers are defined within the container class (.container). in other words we can say that containers are established the width for the lay out the give the content. Element and content are added within the container.

1. **What are default bootstrap text settings?**

**Ans.**

**Example:**

1. **What do you know about bootstrap grid system?**

**Ans.**

Grid System:

Bootstrap grid system allows up to 12 columns across the page. you can use each of them individually or merge them together for wider columns. You can use all combinations of values summing up to 12. You can use 12 columns each of width 1, or use 4 columns each of width 3 or any other combination.

**3 Offset 3**

**4 Offset 4**

**3 offset 3**

**4 offset 4**

4

12

6

6

8

4

4

4

4

1

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1. **What is the difference between bootstrap4 and bootstrap5?**

**Ans.**

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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 improve color palette. There are various shades available to choose. |
| Jquery | It has jquery and all related plugins. | Jquery removed and switched to vanilla JS with some working JS. |
| Internet explorer | Bootstrap supports both IE 10 and 11. | Bootstrap 5 doesn’t support IE 10 and 11. |
| Form element | Ratio buttons, checkboxes have different look in different OS and browser. The form uses whatever default browser provide. | The look of elements will not change, on different OS or browser. The forms can be customized and form controls and can be added, they would not depends 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 .gutter with font size in px. | We use .g\* with font size in rem. |
| Vertical classes | Columns can be positioned relative | Columns cannot be positioned relative |
| Bootstrap icons | Bootstrap 4 doesn’t have it’s SVG icons, we have to use font-awesome for icons. | Bootstrap 5 have it’s own SVG icons. |
| jumobotron | 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. |
| Static site generator | Bootstrap 4 uses Jekyll software. | Bootstrap 5 uses hugo software as it is fast static site generator. |
| Flex box grid | This makes easier to implement vertical designs, and the columns and rows can easily be implemented. The classes justify-centre-content can directly be used to align according to the requirement. | Advanced grid system is made available, also columns don’t columns don’t have relative positives. |
| RTL support | It does not enable RTL(Right To Left) switching. | It enable RTL(Right to Left) switching. |
| Off canvas component | It does not support off canvas component. | It supports off canvas component (it is available now.) |

1. **What is a button group, and what is the class for a basic button group?**

**Ans.** “button groups” in bootstrap is a class of name “btn-group”

Which is used to create series of button 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”.

<div class=”btn-group”>

<button type=”button ” class=”btn”>Click</button>

</div>

**Example:**

1. **How can you use bootstrap to make thumbnails?**

**Ans.** Bootstrap helps web developers to create a thumbnails that are used to show, linked images in grids with the pre- defined classes which helps to reduce codes length. Thumbnails images are created to provide a quick preview of images with small images.

**Thumbnails images:** A thumbnails is a small image that represents larger image. Bootstrap has an easy way to do this with thumbnails. Bootstrap’s .*thumbnails* class is used to show linked images in grids(grid system), a thumbnails is created using class .*thumbnails* within the element <a>. the class .col-sm-\* and class-md-\* (where \* is present number), it is used to create grids of the images.

**Example:**

1. **In bootstrap 4, what is flexbox?**

**Ans.** The **flexible box layout module** in bootstrap is used for designing the flexible and responsive layout structure. It is used in bootstrap 4.

* The **d-flex** class is used to create a simple flexbox container

**Syntax:**

<div class=”d-flex p-2”></div>

* The **d-inline-flex** class is used to create an inline flexbox container

**Syntax:**

<div class=”d-inline-flex p-2”></div>

* **.d-flex and .d-inline-flex** can be used for all breakpoints (sm, md, lg, xl) like .d-sm-flex, .d-sm-flex, etc.

**Syntax:**

<div class=”d-sm-flex p-2”></div>

<div class=”d-sm-flex p-2”></div>

**Example:**

1. **How can one create an alert in bootstrap?**

**Ans.** Before or after performing an action, we frequently encounter specific notifications on some websites. These alert messages are highlighted text that should be taken into account when executing a task. Using preset classes in bootstrap, these alert messages can be displayed on the website.

**Example:**

In this example, we will use the warning alerts using the button click. When the user clicks the button, a warning alert will be generated.

**https://github.com/Webakki/Practicle/blob/main/Alert.html**

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

**Ans.**

**Example:**

**https://github.com/Webakki/Practicle/blob/main/Card.html**