**BootStrap Assignment**

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

* Creating simple navigation code can be a challenging task for someone who is unfamiliar with web development.
* Responsive : Bootstrap ensures that websites and web applications look and function well on various device and screen sizes.
* Highly Customizable : Bootstrap allows for extensive customization, enabling developers to tailor the framework to meet specific design requirements.
* Extremely user centric: Bootstrap provides pre-style components and a responsive grid system, making it easy for developers to create user-friendly interfaces.
* Top-Notch Support: Bootstrap has a large community of users and developers who provide support, resources, and solutions to common problems.

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

* In Bootstrap, a container is a fundamental layout element required fro using the default grid system. Containers help contain and sometimes center the content within them. They manage the margin and deal with the responsive behavior of your layout.
* Type of Containers in Bootstrap:
* Container
* Container Fluid
* How Container Work:
* Creation: Containers are created to encapsulate and structure content.
* Development: Content is developed and organized within containers.
* Scaling/Expansion: Containers adjust to different screen and breakpoints, ensuring responsiveness.
* Destruction: When no longer needed, Containers are removed or destroyed, freeing up resources.

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

* 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).

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

* **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
* **Grid Classes:** The Bootstrap grid system has four classes that can be combined to make more flexible layouts:
* **xs (<576px):** For Portrait Mobile Phones.
* **sm (>=576px):** For Landscapes phones
* **md (>=768px):** For Tablets/Phablets
* **lg (>=992px):** For Small-sized Desktops/Laptops
* **xl (>=1200px):** For Larger-sized Desktops/Laptops

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

|  |  |
| --- | --- |
| **Bootstrap-4** | **Bootstrap-5** |
| The Bootstrap 4 form has jquery. | The jquery is not utilized in Bootstrap 5. |
| Bootstrap 4 has less collection of colors. | Has vibrant and more colors available. |
| Browsers restrictions. | Bootstrap 5 improved the browser restriction. |
| It has 5 tier grid system. | It has 6 tier grid system. |
| Less CSS usability. | More CSS properties also customized properties. |

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

* A button group is a container for organizing and presenting a series of push button controls. It defines the layout for the buttons it contains, including alignment within the container and the title for the group. In Bootstrap, a button group is created using the class "btn-group". This class can be applied to a div element to create a series of buttons either vertically or horizontally. Each button within the group is given the class "btn".
* Here's a clear example of the basic syntax for creating a button group in Bootstrap:

<div class="btn-group">

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

</div>

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

* **Responsive images**

Images in Bootstrap are made responsive with .img-fluid. max-width: 100%; and height: auto;  are applied to the image so that it scales with the parent element.

* **Image thumbnails**

In addition to our [border-radius utilities](https://getbootstrap.com/docs/4.0/utilities/borders/), you can use .img-thumbnail to give an image a rounded 1px border appearance.

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

* In [Bootstrap 4](https://www.javatpoint.com/bootstrap-4), flex box is used to control the layout and alignment specification of Bootstrap 4 components. This box makes it easier to design flexible responsive layout structures without using float or positioning attributes.

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

* Bootstrap Alerts are used to provide an easy way to create predefined alert messages. Alert adds a style to your messages to make it more appealing to the users.

There are classes that are used within <div> element for alerts.

* .alert-success
* .alert-info
* .alert-warning
* .alert-danger
* .alert-primary
* .alert-secondary
* .alert-light
* .alert-dark

<div class="alert alert-primary" role="alert">

    This is a primary alert

</div>

1. **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, which is widely used for building responsive and mobile-first websites. It's a versatile component that allows you to display various types of content, such as text, images, links, buttons, etc., in a structured and visually appealing manner.