BOOTSTRAP Assignment

1) What are the advantages of Bootstrap?

→ Easy to prevent repetitions among multiple projects Responsive design that can be used to adapt screen sizes and choose what shows and what doesn't on any given device Maintaining consistency among projects when using multiple developer teams Quick design of prototypes Cross-browser compatibility

2) What is a Bootstrap Container, and how does it work?

→ 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.

3) 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 elements have margin-top: 0 and margin-bottom: 1rem

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. Below is an example and an in-depth look at how the grid comes together.

5) What is the difference between Bootstrap 4 and Bootstrap 5?

→ Bootstrap 4 and Bootstrap 5 are both popular front-end frameworks that help developers create responsive and mobile-first websites. Here are some key differences between the two versions:

1. Size: Bootstrap 5 is smaller in size compared to Bootstrap 4. This reduction in file size is achieved by removing jQuery dependency and optimizing the codebase.

2. jQuery Dependency: Bootstrap 4 heavily relied on jQuery for its functionality, whereas Bootstrap 5 has removed this dependency. This means that Bootstrap 5 is more lightweight and can be used with or without jQuery.

3. Utility Classes: Bootstrap 5 introduced a new set of utility classes that provide more flexibility and control over the layout and styling of elements. This allows developers to easily customize the design without writing additional CSS.

4. Grid System: Both versions use a 12-column grid system, but Bootstrap 5 introduced some changes to the grid classes. In Bootstrap 5, the grid classes are simplified, and the grid system is built using CSS flexbox instead of float.

5. Customization: Bootstrap 4 offered various customization options through Sass variables. However, Bootstrap 5 expanded on this by introducing a new theming system called "CSS Custom Properties" (also known as CSS variables), which provides more flexibility in customizing color schemes, spacing, and other visual aspects.

6. Components: While many components remain similar between the two versions, Bootstrap 5 introduced some new components and updated existing ones. Some notable additions in Bootstrap 5 include the "accordion" component, "offcanvas" component, and updated form controls.

It's worth noting that migrating from Bootstrap 4 to Bootstrap 5 might require some changes to your code and markup due to the differences outlined above. Therefore, it's important to carefully review the official documentation and migration guides provided by Bootstrap when upgrading from one version to another.

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 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".

7) How can you use Bootstrap to make thumbnails?

→ **To create thumbnails using Bootstrap – 1. Add an tag with the class of .thumbnail around an image. 2. This adds four pixels of padding and a gray border. 3. 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.**

9) How can one create an alert in Bootstrap?

→ Alerts are created with the .alert class, followed by one of the four contextual classes .alert-success, .alert-info, .alert-warning or .alert-danger

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

→ 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 options