Bootstrap Assignment

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

Ans. **Responsive Design:** Automatically adjusts layout for different devices.

**Pre-styled Components:** Provides ready-to-use components like buttons, forms, and navigation.

**Customizable:** Easily customized via Sass variables and custom CSS.

**Cross-browser Compatibility:** Ensures consistent look across various browsers.

**Fast Development:** Speeds up the development process with a grid system and built-in styles.

**Que 2. What is a Bootstrap Container, and how does it work?**

**Ans.** A .container is a fundamental layout component that provides a responsive fixed-width container with horizontal padding.

This is how it work:

The container adjusts its width based on the viewport size. It has a maximum width for different screen sizes (e.g., container-sm for small devices, container-md for medium devices) to ensure content is well-aligned and readable on various devices.

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

**Ans: 1. Font Size:** Default text size is 1rem (16px), providing a base size that scales with the user’s browser settings.

**2. Line Height:** The default line height is 1.5, ensuring text is legible and has adequate spacing.

**3. Font Family**: Bootstrap uses a system font stack by default (-apple-system, BlinkMacSystemFont, Segoe UI, Roboto, Oxygen, Ubuntu, Cantarell, Fira Sans, Droid Sans, Helvetica Neue, sans-serif), which ensures a consistent look across different platforms without relying on web fonts.

**Que 4. What do you know about the Bootstrap Grid System?**

Ans 4. The Bootstrap Grid System uses a series of containers, rows, and columns to layout and align content in a flexible and responsive manner.

**How It Works:** The system is based on a 12-column layout, allowing you to specify how many columns an element should span. You can use classes like .col-4 to make an element span 4 of the 12 available columns. The grid system is responsive, meaning the number of columns an element spans can change based on the screen size.

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

Ans 5.

🡺 **Bootstrap 5:**

* **No jQuery Dependency:** Bootstrap 5 removes the need for jQuery, relying on vanilla JavaScript, which simplifies integration and reduces dependencies.
* **Improved Forms:** New form controls and layout options provide better customization and a more modern look.
* **Updated Utility API:** Adds new utility classes and an improved utility API for easier customization and layout control.
* **Enhanced Customization:** More variables and customization options for themes and components.

🡺 **Bootstrap 4:**

* **jQuery Dependency:** Relies on jQuery for JavaScript components and plugins.
* **Older Form Controls:** Forms and controls are less customizable compared to Bootstrap 5.
* **Utility Classes:** Provides a set of utility classes but with less flexibility compared to Bootstrap 5.
* **Theming:** Basic theming options with fewer customization variables.

**Que 6. What is a Button Group, and what is the class for a basic Button Group?**

Ans 6. A Button Group allows you to group multiple buttons together to appear as a single unified component. This is useful for actions that are closely related.

**Class for Basic Button Group:** Use the .btn-group class to create a button group.

Example: Class = “btn btn-primary”

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

Ans 7. Use the .img-thumbnail class to apply a border and padding to images, giving them a thumbnail appearance.

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<img src="image.jpg" class="img-thumbnail" alt="Thumbnail image">

**Que 8. In Bootstrap 4, what is flexbox?**

**Ans8.** Flexbox is a CSS layout module that allows items within a container to be aligned and distributed more efficiently**.**

* + **Usage in Bootstrap 4**: Bootstrap 4 integrates Flexbox to control layout and alignment of elements. It provides utility classes like .d-flex, .justify-content-center, .align-items-start, etc., to apply Flexbox properties to elements and create flexible, responsive layouts.

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

Ans 9. Use the .alert class along with contextual classes like .alert-primary, .alert-success, etc.

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

This is a success alert—check it out!

</div>

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

Ans 10. A Bootstrap Card is a flexible content container with various options for headers, footers, images, and text.

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