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Frontend Assignment

Part 1: Web Designing

MODULE: 6 (Bootstrap Basic & Advance)

• What are the advantages of Bootstrap?

- ⇒ The Benefits of Using Bootstrap Framework
- ⇒ Using the Bootstrap framework saves time in many ways by taking advantage of reusable code for Navbars, Dropdowns, Labels, Alerts, List groups and JavaScript plugins. Using the framework offers these design benefits:
 - 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.

• 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.

• What are the default Bootstrap text settings?

- ⇒ Bootstrap 4 Default 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).

• 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.

• What is the 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).

BASIS OF	BOOTSTRAP 4	BOOTSTRAP 5
Color	It has limited colors.	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 elements	Radio buttons, checkboxes have different look in different OS and browsers. The form uses whatever default browsers provide.	The look of form elements will not change, 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
Gutter	We use .glutter with fontsize in px	We use .g* with fontsize in rem
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 is 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.

BASIS OF	BOOTSTRAP 4	BOOTSTRAP 5
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).

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

- ⇒ Button groups allow multiple buttons to be stacked together on a single line. This is useful when you want to place items like alignment buttons together. You can add on optional JavaScript radio and checkbox style behavior with Bootstrap Button Plugin. This class is used for a basic button group.

- **How can you use Bootstrap to make thumbnails?**

- ⇒ Bootstrap - Thumbnails
 - 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.

- **In Bootstrap 4, what is flexbox?**

- ⇒ Flexbox is used to quickly manage the layout, alignment and sizing of grid columns, navigation, components, and more with a full suite of responsive flexbox utilities. You can also do complex implementations using custom CSS. Flexbox Properties: Enable flex behaviors.

- **How can one create an alert in Bootstrap?**

- ⇒ Bootstrap provides an easy way to create predefined alert messages:
 - Success! This alert box indicates a successful or positive action.
 - Info! This alert box indicates a neutral informative change or action.
 - Warning! This alert box indicates a warning that might need attention.
 - Danger! This alert box indicates a dangerous or potentially negative action..

- **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. If you're familiar with Bootstrap 3, cards replace our old panels, wells, and thumbnails.