Module: - 6

(Bootstrap Basic & Advance)

Q-1 What are the advantages of Bootstrap?

Ans: - There are following below 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.

Q-2 What is a Bootstrap container, and how does it work?

Ans: - A Bootstrap container is a fundamental layout element in the Bootstrap framework. It is a wrapper that contains and centre's the content of a web page, limiting the maximum width of the content to a specific value, depending on the screen size. The container class is used to create a responsive container element that adjusts to the width of the user's device.

- Bootstrap provides three types of containers: container, container-fluid, and container-sm, container-md, container-lg, container-xl, and container-xxl.
- The container class creates a responsive fixed-width container that is centered on the page. The width of the container is determined by the screen size, and it is designed to be used for small to medium-sized screens.
- The container-fluid class creates a full-width container that spans the entire width of the viewport. It is designed to be used for large screens and provides a flexible layout.
- The container-sm, container-md, container-lg, container-xl, and container-xxl classes allow you to specify different container widths for different screen sizes, providing more precise control over the layout of your content.

Q-3 What are the default Bootstrap text settings?

 Ans: -Bootstrap, a popular front-end framework for web development, provides default settings for typography that make it easier to create visually appealing and consistent text throughout your website. Here are the default Bootstrap text settings:

- Font family: The default font family for Bootstrap is "Helvetica Neue", Helvetica, Arial, and sans-serif.

- Font size: The default font size is 1rem (16px).

- Font weight: The default font weight for regular text is 400 (normal), while the default font weight for headings is bold.

- Line height: The default line height is 1.5, which creates a comfortable amount of space between lines of text.

- Text color: The default text color is black (#000).

- Text alignment: The default text alignment is left-aligned.

- Text decoration: The default text decoration is none, meaning there are no underlines or other decorations added to the text

Q-4 What do you know about the bootstrap Grid system?

Ans: - The Bootstrap Grid System is a responsive grid system that is used in front-end web development. It was created by Twitter, and it is now one of the most widely used grid systems for building responsive websites.

- The Bootstrap Grid System is based on a 12-column layout, which can be divided into any number of columns depending on the design requirements. The grid is responsive, meaning that it can adjust to different screen sizes and devices, and it uses a series of CSS classes to define the layout and positioning of elements on the page.
- Some key features of the Bootstrap Grid System include:
- The ability to create nested columns and rows, allowing for complex layouts.
- Predefined classes for controlling the width and positioning of elements, such as .col-md-4 or .offset-lg-2.
- The ability to customize the grid system using Sass variables and mixins.
- A wide range of built-in utility classes for controlling spacing, alignment, and other layout properties.
- Support for responsive breakpoints, allowing for different layouts at different screen sizes.

Q-5 What is the difference between Bootstrap4 and Bootstrap5?

Ans: - Bootstrap 5 is the newer version of the popular front-end web development framework Bootstrap, released in May 2021. Here are some of the key differences between Bootstrap 4 and Bootstrap 5:

- **Smaller file size:** Bootstrap 5 is designed to be lighter and faster than Bootstrap 4. It has removed some of the less commonly used components and has optimized the CSS and JavaScript code.
- **New components:** Bootstrap 5 introduces several new components, including accordion, offcanvas, and toast.
- **Updated colors and typography:** Bootstrap 5 has updated its default color palette and typography. It now uses a new system of color names that are more descriptive, such as "blue-500" instead of "primary".
- **New utility classes:** Bootstrap 5 introduces several new utility classes for spacing, sizing, and typography.
- **Improved grid system:** The grid system in Bootstrap 5 has been updated to use CSS Grid, which provides more flexibility and control over layouts.
- **No jQuery dependency:** Bootstrap 5 no longer requires jQuery as a dependency, making it more lightweight and easier to use.
- **Customizable components:** Bootstrap 5 includes a new system for customizing components, allowing developers to easily modify the look and feel of individual components.

Q-6 What is Button Group, and the class for basic button Group?

Ans: - "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".
- Syntax: Click

Q-7 How can you use Bootstrap to make thumbnails?
Ans: -
- **Step 1:** The first step is to include the Bootstrap and jQuery CDN into the head tag before having CSS's stylesheets.
- **Step 2:** We need to create a div tag in our HTML body. We will create three div sections for each image in this div tag.
- **Step 3:** We can add various col properties for making our page responsive, like col-sm 6 or col-md-3.
- **Step 4:** You need to create an anchor tag, with a class name-. Thumbnail wrapped around an image tag

Q-8 In Bootstrap 4, what is flexbox?

Ans: - In Bootstrap 4, Flexbox is a layout mechanism that is used to create flexible and responsive layouts for web pages. Flexbox is a CSS display property that provides a way to arrange elements in a container, and allows those elements to dynamically adjust their size and position based on the available space.

- Flexbox allows you to define a flexible container and place the child elements within it, using various properties such as justify-content, align-items, and flex-direction to control their position and behaviour. This makes it easier to create responsive and adaptive layouts that can adjust to different screen sizes and device types.

Q-9 How can one create an alert in Bootstrap?

Ans: - The .alert class followed by contextual classes are used to display the alert message on website. The alert classes are: .alert-success, .alert-info, .alert-warning, .alert-danger, .alert-primary, .alert-secondary, .alert-light and .alert-dark. We can use .alert-warning to create warning notification alerts in bootstrap. - E, g. A simple warning alert—check it out!

Q-10 What is a Bootstrap card and would you create one?

Ans: - A Bootstrap Card is made up of a few different components, including a header, a body, and a footer. The header can contain a title and any other information you want to display at the top of the card. The body is the main content area of the card, where you can add images, text, or any other content you want to display. The footer can contain additional information or links at the bottom of the card.

- Bootstrap Cards can be styled in different ways, including with borders, shadows, and background colors. They can also be used to create different types of layouts, such as grids of cards or lists of cards. Overall, Bootstrap Cards are a versatile and customizable component that can be used in many different ways to display content on a website.

- **would you create one?**

  Ans:- card.html