Module (Bootstrap Basic & Advanced) – 6

1. What are the advantages of Bootstrap?

Ans.Benefits of using Bootstrap 1 Bootstrap 3, framework consists of Mobile first styles throughout the entire library instead them of in separate files. It is supported by all popular browsers. With just the knowledge of HTML and CSS, anyone can get started with Bootstrap. Bootstrap's responsive CSS adjusts to Desktops, Tablets, and Mobiles.

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

Ans. Bootstrap Containers are the most basic layout element in Bootstrap. Bootstrap Containers are very essential and basic building blocks of bootstrap that wrap a page's content. It's responsible for setting and aligning content within it according to viewport or given device. Containers are defined within the container class (.container). In other words, we can say that containers are established the width for the layout to give the content.

3. What are the default Bootstrap text settings?

Ans. Default text size is 16px, line height is 1.5, H1-40px, H2-32px, H3-28px, H4-24px, H5-20px, H6-16px.

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

Ans.Bootstrap Grid System is a collection of HTML/CSS constituents that enables you to roll out a website and helps you in keeping its content at significant settings with ease. If you want to create a robust website layout, then this System could be the perfect choice to achieve it with an ability to quickly generate grid layouts for all kinds of mobile devices. It enables you to craft out columns and rows, thereby placing the data in the 'intersected' areas. The bootstrap grid system has the capacity to generate twelve columns and countless rows, also known as a twelve-grid system.

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

Ans.

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).
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 an isset of cards with equal width and height.	Card deck class in 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.
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).

6. What is a Button Group, and what is the class for a basic Button Group?
Ans.Button groups are useful when you want to place items like alignment buttons together. This allows multiple buttons to be stacked together on a single line. Description: Wrap a series of buttons with class **.btn** in .btn-group. This class is used for a basic button group.

7. How can you use Bootstrap to make thumbnails?
Ans. A thumbnail is a small image that represents a larger image. Bootstrap has an easy way to do this with thumbnails. Bootstrap's *.thumbnail* class is used to show linked images in grids (grid system), a thumbnail is created using class *.thumbnail* within the element <u><a></u>. The class *.col-sm-** and *.col-md-** (where * represent number), it is used to create grids of the images.

8. In Bootstrap 4, what is flexbox?
Ans. In 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.

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.

10. What is a bootstrap card and how would you create one?
Ans. A card in Bootstrap is a bordered box with some padding around its content. It includes options for headers, footers, content, colors, etc.

```html
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
  <h2>Card Header and Footer</h2>
  <div class="card">
    <div class="card-header">Header</div>
    <div class="card-body">Content</div>
    <div class="card-footer">Footer</div>
  </div>
</div>

</body>
</html>
```