Bootstrap Basic & Advanced

Q-1) What are the advantages of Bootstrap?

A-1) Bootstrap is a powerful, feature & packed frontend toolkit, build anything from porotype to production –in minutes.

1)Easy to initiation

2)Responsiveness

3)Highly customizable

4)Update at the doorstep

Q-2) What are the default Bootstrap text settings?

a-2) Bootstrap styles HTML headings <h1> to <h6> with a bolder font-weight and an increased font-size:

```
1
2  <div class="container">
3    <h1>Lighter, Secondary Text</h1>
4    <p>The small element is used to create a lighter, secondary text in any heading:</p>
5    <h1>h1 heading <small>secondary text</small></h1>
6    <h2>h2 heading <small>secondary text</small></h2>
7    <h3>h3 heading <small>secondary text</small></h3>
8    <h4>h4 heading <small>secondary text</small></h4>
9    <h5>h5 heading <small>secondary text</small></h5>
10    <h6>h6 heading <small>secondary text</small></h6>
11  </div>
```

input

The small element is used to create a lighter, secondary text in any heading:

h1 heading secondary text

h2 heading secondary text

h3 heading secondary text

h4 heading secondary text

h5 heading secondary text

h6 heading secondary text

Q-3) What do you know about the Bootstrap Grid System?

A-3) 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.

```
11 ▾ <body>
12
13 ▾ <div class="container-fluid">
14     <h1>Small Grid</h1>
15 ▾   <p>The following example will result in a
16     25%/75% split on small,
17   </p>
18     <p>Resize the browser window to see the effect.</p>
19 ▾   <div class="row">
20 ▾     <div class="col-sm-3" style="background-color:yellow;">
21       1
22     </div>
23 ▾     <div class="col-sm-9" style="background-color:pink;">
24     2
25     </div>
26   </div>
27 </div>
28
29 </body>
```

input

Small Grid

The following example will result in a 25%/75% split on small,

Resize the browser window to see the effect.

1	2

Q-4) What is the difference between Bootstrap 4 and Bootstrap 5?
a-4)

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.

BASIS OF	BOOTSTRAP 4	BOOTSTRAP 5
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 .gutter with font size in px	We use .g* with font size 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
Jumbo Tron	It supports.	It doesn't support jumbo Tron.
Card deck	The card deck is used to create a set 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.

BASIS OF	BOOTSTRAP 4	BOOTSTRAP 5
RTL Support	It does not enable RTL(Right to Left) switching.	It enables RTL(Right to Left) switching.
off canvas Component	It does not support Off canvas Component.	It supports off canvas Component(that is it is available now).

Q-5) What is a Button Group, and what is the class for a basic Button Group?

A-5) Button Groups" in <u>Bootstrap</u> is a class of name "btn-group" which is used to create a series of buttons in groups (without spaces) vertically or horizontally.

```
21
22   <body>
23       <div class="btn-group">
24           <button type="button" class="btn btn-danger">Click</button>
25           <button type="button" class="btn btn-warning">Click</button>
26           <button type="button" class="btn btn-success">Click</button>
27       </div>
28   </body>
29   </html>
30
```

input

[Click] [Click] [Click]

A-6) How can you use Bootstrap to make thumbnails?

a-6) the image thumbnail is a border surrounded by the image. To create this image thumbnail you can use the .img-thumbnail class.

```
12       <h3 style="color: green">Bootstrap thumbnails</h3>
13       <div class="row">
14       <div class="col-sm-6 col-md-3">
15           <a href="#" class="thumbnail">
16           <img
17               src=
18   "https://media.geeksforgeeks.org/wp-content/cdn-uploads/20210310114057/web-development-image.png"
19               style="height: 100px; width: 100px"
20           />
21           </a>
22       </div>
23       <div class="col-sm-6 col-md-3">
24           <a href="#" class="thumbnail">
25           <img
26               src=
27   "https://media.geeksforgeeks.org/wp-content/cdn-uploads/machineLearning3.png"
28               style="height: 100px; width: 100px"
29           />
30           </a>
```

input

Bootstrap thumbnails

Q-7)In Bootstrap 4, what is flexbox?

a-7)Bootstrap 4 now uses flexbox, instead of floats, to handle the layout.

```html
 5    <meta charset="utf-8">
 6    <meta name="viewport" content="width=device-width, initial-scale=1">
 7    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
 8    <script src="https://cdn.jsdelivr.net/npm/jquery@3.7.1/dist/jquery.slim.min.js"></script>
 9    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
10    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
11  </head>
12  <body>
13
14  <div class="container mt-3">
15    <h2>Flex</h2>
16    <p>To create a flexbox container and transform direct children into flex items, use the d-flex class:</p>
17    <div class="d-flex p-3 bg-secondary text-white">
18      <div class="p-2 bg-info">Flex item 1</div>
19      <div class="p-2 bg-warning">Flex item 2</div>
20      <div class="p-2 bg-primary">Flex item 3</div>
21    </div>
22  </div></body></html>
23
```
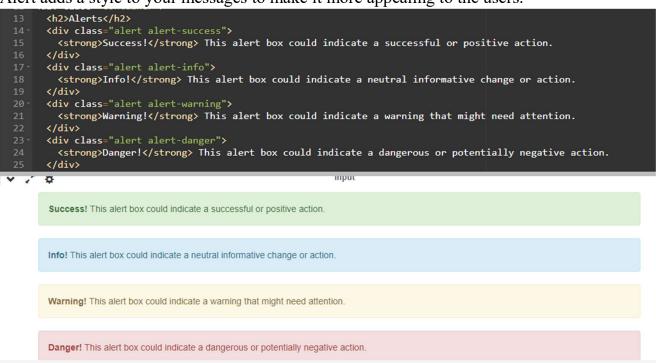
input

Flex

To create a flexbox container and transform direct children into flex items, use the d-flex class:

| Flex item 1 | Flex item 2 | Flex item 3 |

Q-7) How can one create an alert in Bootstrap?

A-7) Bootstrap Alerts are used to provide an easy way to create predefined alert messages. Alert adds a style to your messages to make it more appealing to the users.

```html
13    <h2>Alerts</h2>
14    <div class="alert alert-success">
15      <strong>Success!</strong> This alert box could indicate a successful or positive action.
16    </div>
17    <div class="alert alert-info">
18      <strong>Info!</strong> This alert box could indicate a neutral informative change or action.
19    </div>
20    <div class="alert alert-warning">
21      <strong>Warning!</strong> This alert box could indicate a warning that might need attention.
22    </div>
23    <div class="alert alert-danger">
24      <strong>Danger!</strong> This alert box could indicate a dangerous or potentially negative action.
25    </div>
```

input

Success! This alert box could indicate a successful or positive action.

Info! This alert box could indicate a neutral informative change or action.

Warning! This alert box could indicate a warning that might need attention.

Danger! This alert box could indicate a dangerous or potentially negative action.

Q-8) What is a bootstrap card and how would you create one?

A-8) A basic Bootstrap card consists of a . card class with the . card-body class, allowing you to add text, images, links, and other Bootstrap elements within a rounded border.

```
index.html
20  <body>
21      <div class="container">
22          <h1 style="color:green">GeeksforGeeks</h1>
23          <div class="card" style="width:200px">
24              <img class="card-img-top" src=
25  "https://media.geeksforgeeks.org/wp-content/cdn-uploads/20190530183756/Good-Habits-for-developers-programmers.p
26                  alt="Card image" style="width:100%">
27              <div class="card-body">
28                  <h4 class="card-title">Developer Guy</h4>
29                  <p class="card-text">
30                      Developer Guy love to develop
31                      front-end and back-end
32                  </p>
33
```

input

GeeksforGeeks

Developer Guy

Developer Guy love to