Assignment

Q.1 What are the advantages of Bootstrap

Ans. Easy initiation. Coding is a hurricane task for a person who is unbeknownst to web development. ...

Responsiveness. ...

Highly customizable. ...

Extremely user-centric. ...

Top-notch support. ...

Cross-browser compatibility. ...

JavaScript plugins to your rescue. ...

Far-reaching popularity.

Q2. What is a Bootstrap Container, and how does it work?

Ans. 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.

Ex. <div class="container">  
 <!-- Content here -->  
</div>

<div class="container-sm">Wide for small breakpoint</div>  
<div class="container-md">Wide for medium breakpoint</div>  
<div class="container-lg">Wide for large breakpoint</div>

Q3. What are the default Bootstrap text settings?

Ans. 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).

Ex. h1 Bootstrap heading (2.5rem = 40px)

h2 Bootstrap heading (2rem = 32px)

h3 Bootstrap heading (1.75rem = 28px)

h4 Bootstrap heading (1.5rem = 24px)

h5 Bootstrap heading (1.25rem = 20px)

h6 Bootstrap heading (1rem = 16px)

Q4. What do you know about the Bootstrap Grid System?

Ans. Bootstrap’s grid system uses a series of containers, rows, and columns to layout and align content. It’s built with [flexbox](https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Flexible_Box_Layout/Using_CSS_flexible_boxes) and is fully responsive. Below is an example and an in-depth look at how the grid comes together.

Ex. <div class="container">  
 <div class="row">  
 <div class="col-sm">  
 One of three columns  
 </div>  
 <div class="col-sm">  
 One of three columns  
 </div>  
 <div class="col-sm">  
 One of three columns  
 </div>  
 </div>  
</div>

Q5. What is the difference between Bootstrap 4 and Bootstrap 5?

Ans.

|  |  |
| --- | --- |
| **Bootstrap 4** | **Bootstrap 5** |
| The Bootstrap 4 form has jquery. | The jquery is not utilized in Bootstrap 5. |
| Bootstrap 4 has less collection of colors. | Has vibrant and more colors available. |
| Browsers restrictions. | Bootstrap 5 improved the browser restriction. |
| It has 5 tier grid system. | It has 6 tier grid system. |
| The APIs cannot be customized. | Allows modifying APIs or develop own API. |
| The positioning feature is absent. | Columns can be positioned. |
| Less CSS usability. | More CSS properties also customized properties. |
| Uses default form development tools. | Better development of forms. |
| There is no offcanvas component. | The offcanvas component is added. |
| Bootstrap 4 provides normal form layout with no advance features. | Provides advance and attractive features to make forms. |
| Does not support RTL(right to left) switching in languages. | It supports RTL(right to left) switching in languages. |
| No themes customization. | Provides theme customization. |
| Small icon collection. | Large icon collection. |

Q6. What is a Button Group, and what is the class for a 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”.

Ex.

<div class="btn-group">  
 <button type="button" class="btn">Click</button>  
</div>

Q7. How can you use Bootstrap to make thumbnails?

Ans. Step 1: Include Bootstrap and jQuery CDN into the <head> tag before all other stylesheets to load our CSS. Step 2: Add <div> tag in the HTML body with class row. In that <div> create four div sections to create four images. Step 3: Add “col-sm-6” and “col-md-3” to four div sections which creates webpage responsive

Ex. <!DOCTYPE html>

<html lang="en">

<head>

<link

rel="stylesheet"

href=

"<http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css>"/>

<script src=

"<https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js>">

</script>

<script src=

"<http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js>">

</script>

</head>

<body>

<h3 style="color: green">

<b>Bootstrap Thumbnails with Captions and Button</b>

</h3>

<div class="row">

<div class="col-sm-6 col-md-3">

<a href="#" class="thumbnail">

<img

src=

"<https://media.geeksforgeeks.org/wp-content/cdn-uploads/20210310114057/web-development-image.png>"

style="height: 100px; width: 100px"

/>

</a>

<div class="caption">

<h3 style="color: green">GfG Web-Development</h3>

<p>

Web development refers to the building,

creating, maintaining of

websites.

</p>

<p>

<a href="#" class="btn btn-success">

Learn More

</a>

</p>

</div>

</div>

<div class="col-sm-6 col-md-3">

<a href="#" class="thumbnail">

<img

src=

"<https://media.geeksforgeeks.org/wp-content/cdn-uploads/machineLearning3.png>"

style="height: 100px; width: 100px"

/>

</a>

<div class="caption">

<h3 style="color: green">GfG Machine Learning</h3>

<p>

Machine Learning is the study to

learn without being explicitly

programmed.

</p>

<p>

<a href="#" class="btn btn-success">

Learn More

</a>

</p>

</div>

</div>

<div class="col-sm-6 col-md-3">

<a href="#" class="thumbnail">

<img

src=

"<https://media.geeksforgeeks.org/wp-content/cdn-uploads/20210202223017/Competitive-Programming-%E2%80%93-A-Complete-Guide.png>"

style="height: 100px; width: 100px"

/>

</a>

<div class="caption">

<h3 style="color: green">GfG Programming</h3>

<p>

Competitive Programming enables you

to code a given problem under

provided constraints.

</p>

<p>

<a href="#" class="btn btn-success">

Learn More

</a>

</p>

</div>

</div>

<div class="col-sm-6 col-md-3">

<a href="#" class="thumbnail">

<img

src=

"<https://www.geeksforgeeks.org/wp-content/uploads/Java-768x256.png>"

style="height: 100px; width: 100px"

/>

</a>

<div class="caption">

<h3 style="color: green">GfG Java</h3>

<p>

Java is one of the most popular

and widely used programming

language.

</p>

<p>

<a href="#" class="btn btn-success">

Learn More

</a>

</p>

</div>

</div>

</div>

</body>

</html>

Q8. In Bootstrap 4, what is flexbox?

Ans. Flexbox. The biggest difference between Bootstrap 3 and Bootstrap 4 is that **Bootstrap 4 now uses flexbox, instead of floats, to handle the layout**. The Flexible Box Layout Module, makes it easier to design flexible responsive layout structure without using float or positioning.

Ex. <div class="d-flex p-3 bg-secondary text-white">  
 <div class="p-2 bg-info">Flex item 1</div>  
 <div class="p-2 bg-warning">Flex item 2</div>  
 <div class="p-2 bg-primary">Flex item 3</div>  
</div>

Q9. How can one create an alert in Bootstrap?

Ans. <div class="alert alert-success">  
 <strong>Success!</strong> Indicates a successful or positive action.  
</div>  
  
<div class="alert alert-info">  
 <strong>Info!</strong> Indicates a neutral informative change or action.  
</div>  
  
<div class="alert alert-warning">  
 <strong>Warning!</strong> Indicates a warning that might need attention.  
</div>  
  
<div class="alert alert-danger">  
 <strong>Danger!</strong> Indicates a dangerous or potentially negative action.  
</div>

Q10. What is a bootstrap card and how would you create one?

Ans. <https://github.com/bhavsar0303/-Bootstrap/tree/main/Card%20bootstrap>