1. What are the advantages of Bootstrap?

(ans) the benefits of using bootstrap framework

1. Easy to prevent repetitions among multiple projects.
2. Responsive designs that can be used to adapt screen sizes and choose what shows and what doesn’t on any given device.
3. Maintaining consistency among projects when using multiple developer teams.
4. Quick design of prototypes.
5. What is a Bootstrap Container, and how does it work?

(ans) containers are the most basic 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.

<!DOCTYPE html>

<html lang="en">

<head>

  <title>Bootstrap Example</title>

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container">

  <h1>My First Bootstrap Page</h1>

  <p>This part is inside a .container class.</p>

  <p>The .container class provides a responsive fixed width container.</p>

  <p>Resize the browser window to see that the container width will change at different breakpoints.</p>

</div>

</body>

</html>

1. What are the default Bootstrap text settings?

(ans) bootstrap 5 default settings:

Bootstrap 5 uses a default font-size of 1 rem (16px by default), and it’s line-height is 1.5.

In addition, all <p> elements have margin-top: 0 and margin-bottom : 1 rem (16px by default).

1. 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 and is fully responsive. The columns will re- arrange depending on the screen size : on a big screen it might look better with the content organized in three columns, but on a small screen it would be better if the content items were stacked on top of each other. Below is an example and an in - depth look at how the grid comes together.

<!DOCTYPE html>

<html lang="en">

<head>

  <title>Bootstrap Example</title>

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container-fluid mt-3">

  <h1>Responsive Columns</h1>

  <p>Resize the browser window to see the effect.</p>

  <p>The columns will automatically stack on top of each other when the screen is less than 576px wide.</p>

  <div class="row">

    <div class="col-sm-3 p-3 bg-primary text-white">.col</div>

    <div class="col-sm-3 p-3 bg-dark text-white">.col</div>

    <div class="col-sm-3 p-3 bg-primary text-white">.col</div>

    <div class="col-sm-3 p-3 bg-dark text-white">.col</div>

  </div>

</div>

</body>

</html>

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

(ans) the form elements in bootstrap 4 have defaulted to the browser – provided view. However, in bootstrap 5, the form elements have a custom design that enables them to have a consistent look and feel in all browsers. The new form controls are based on completely semantic, standard form controls.

1. 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 a series of buttons in groups (without spaces) vertically or horizontally. Syntax : this is the basic syntax of the button group class where each button has its own class of “btn”.

<!DOCTYPE html>

<html lang="en">

<head>

  <title>Bootstrap Example</title>

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container mt-3">

  <h2>Button Group</h2>

  <p>The .btn-group class creates a button group:</p>

  <div class="btn-group">

    <button type="button" class="btn btn-primary">Apple</button>

    <button type="button" class="btn btn-primary">Samsung</button>

    <button type="button" class="btn btn-primary">Sony</button>

  </div>

</div>

</body>

</html>

1. How can you use Bootstrap to make thumbnails?

(ans) bootstrap – thumbnails

1. Add an <a> tag with the class of thumbnail around an image.
2. This adds four pixels of padding and a gray border.
3. On hover, an animated glow outlines the image.
4. <!DOCTYPE html>
5. <html lang="en">
6. <head>
7. <title>Bootstrap Example</title>
8. <meta charset="utf-8">
9. <meta name="viewport" content="width=device-width, initial-scale=1">
10. <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
11. <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
12. </head>
13. <body>
14. <div class="container mt-3">
15. <h2>Thumbnail</h2>
16. <p>The .img-thumbnail class creates a thumbnail of the image:</p>
17. <img src="cinqueterre.jpg" class="img-thumbnail" alt="Cinque Terre" width="304" height="236">
18. </div>
19. </body>
20. </html>
21. In Bootstrap 4, what is flexbox?

(ans) 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.

<!DOCTYPE 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@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.7.1/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@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container mt-3">

  <h2>Flex</h2>

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

  <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>

</div>

</body>

</html>

1. How can one create an alert in Bootstrap?

(ans) bootstrap alerts :

Bootstrap provides an easy way to create predefined alert messages :

1. Success! This alert box indicates a successful or positive action.
2. Info! This alert box indicates a neutral informative change or action.
3. Warning! This alert box indicates a warning that might need attention.
4. Danger! This alert box indicates dangerous or potentially negative action.
5. Primary! Indicates an important action.
6. Secondary! Indicates a slightly less important action.
7. Dark! Dark grey alert.
8. Light! Light grey alert.
9. <!DOCTYPE html>
10. <html lang="en">
11. <head>
12. <title>Bootstrap Example</title>
13. <meta charset="utf-8">
14. <meta name="viewport" content="width=device-width, initial-scale=1">
15. <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
16. <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
17. </head>
18. <body>
19. <div class="container mt-3">
20. <h2>Alerts</h2>
21. <p>Alerts are created with the .alert class, followed by a contextual color classes:</p>
22. <div class="alert alert-success">
23. <strong>Success!</strong> This alert box could indicate a successful or positive action.
24. </div>
25. <div class="alert alert-info">
26. <strong>Info!</strong> This alert box could indicate a neutral informative change or action.
27. </div>
28. <div class="alert alert-warning">
29. <strong>Warning!</strong> This alert box could indicate a warning that might need attention.
30. </div>
31. <div class="alert alert-danger">
32. <strong>Danger!</strong> This alert box could indicate a dangerous or potentially negative action.
33. </div>
34. <div class="alert alert-primary">
35. <strong>Primary!</strong> Indicates an important action.
36. </div>
37. <div class="alert alert-secondary">
38. <strong>Secondary!</strong> Indicates a slightly less important action.
39. </div>
40. <div class="alert alert-dark">
41. <strong>Dark!</strong> Dark grey alert.
42. </div>
43. <div class="alert alert-light">
44. <strong>Light!</strong> Light grey alert.
45. </div>
46. </div>
47. </body>
48. </html>

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

(ans) in its simplest form, a bootstrap card is a.card class with the . card – body class nested inside. This creates a card with a rounded border inside which you can place text, images, links, and other bootstrap elements.

<!DOCTYPE html>

<html lang="en">

<head>

  <title>Bootstrap Example</title>

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container mt-3">

  <h2>Card Image</h2>

  <p>Image at the top (card-img-top):</p>

  <div class="card" style="width:400px">

    <img class="card-img-top" src="../bootstrap4/img\_avatar1.png" alt="Card image" style="width:100%">

    <div class="card-body">

      <h4 class="card-title">John Doe</h4>

      <p class="card-text">Some example text some example text. John Doe is an architect and engineer</p>

      <a href="#" class="btn btn-primary">See Profile</a>

    </div>

  </div>

  <br>

  <p>Image at the bottom (card-img-bottom):</p>

  <div class="card" style="width:400px">

    <div class="card-body">

      <h4 class="card-title">Jane Doe</h4>

      <p class="card-text">Some example text some example text. Jane Doe is an architect and engineer</p>

      <a href="#" class="btn btn-primary">See Profile</a>

    </div>

    <img class="card-img-bottom" src="../bootstrap4/img\_avatar6.png" alt="Card image" style="width:100%">

  </div>

</div>

</body>

</html>