Assignment-6

1. **What are the advantages of Bootstrap?**

* The advantages of Bootstrap are : Responsive design, consistent styles and components, cross-browser compatibility, mobile-first approach, customization options, extensive community support, integration with JavaScript libraries, and rapid prototyping capabilities.

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

* A Bootstrap container is a class used to create a fixed-width container for website content. It provides padding and centres the content.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8" />

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

<!-- Bootstrap CSS -->

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"

crossorigin="anonymous"

/>

<title>Container</title>

</head>

<body>

<div class="container">

<div class="row bg-primary">

<div class="col-12">

<h1 class="text-center">Welcome to my website</h1>

<p class="text-center">

This is some content inside a Bootstrap container.

</p>

</div>

</div>

</div>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"

></script>

</body>

</html>

1. **What are the default Bootstrap text settings?**

* Default Bootstrap text settings include classes for left (text-left), right (text-right), center (text-center), justify (text-justify), and no wrap (text-nowrap) alignment.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8" />

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

<!-- Bootstrap CSS -->

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"

crossorigin="anonymous"

/>

<title>default text settings</title>

</head>

<body>

<div class="container">

<div class="row bg-success">

<div class="col-12">

<p class="text-left">This text is aligned to the left.</p>

<p class="text-right">This text is aligned to the right.</p>

<p class="text-center">This text is centered.</p>

<p class="text-justify">This text is justified.</p>

<p class="text-nowrap">This text will not wrap to the next line.</p>

</div>

</div>

</div>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"

></script>

</body>

</html>

1. **What do you know about the Bootstrap Grid System?**

* The Bootstrap Grid System is a responsive layout system with a 12-column grid.
* It allows for easy creation of responsive and flexible layouts by dividing content into rows and columns.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8" />

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

<!-- Bootstrap CSS -->

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"

crossorigin="anonymous"

/>

<title>default text settings</title>

</head>

<body>

<div class="container">

<div class="row bg-primary">

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

<p>Column 1</p>

</div>

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

<p>Column 2</p>

</div>

</div>

</div>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"

></script>

</body>

</html>

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

| **Bootstrap 4** | **Bootstrap 5** |
| --- | --- |
| File size is large. | File size is smaller. |
| Heavily dependent on jQuery. | Reduced dependency on jQuery. |
| Limited utility classes. | Expanded set of utility classes. |
| Float-based layout system. | Flexbox-based layout system. |
| Existing component. | Updated components and new additions. |

1. **What is a Button Group, and what is the class for a basic Button Group?**

* A Button Group in Bootstrap is a group of buttons that are visually grouped together. It allows you to apply styles and interactions to a collection of related buttons.
* The class for a basic Button Group in Bootstrap is btn-group.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8" />

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

<!-- Bootstrap CSS -->

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"

crossorigin="anonymous"

/>

<title>default text settings</title>

</head>

<body>

<div class="container">

<div class="row ">

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

<div class="btn-group" role="group" aria-label="Basic example">

<button type="button" class="btn btn-primary">Button 1</button>

<button type="button" class="btn btn-primary">Button 2</button>

<button type="button" class="btn btn-primary">Button 3</button>

</div>

</div>

</div>

</div>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"

></script>

</body>

</html>

1. **How can you use Bootstrap to make thumbnails?**

* To create thumbnails using Bootstrap, you can utilize the card component along with the img class.
* By adjusting the classes and content within the card, you can create visually appealing and functional thumbnails using Bootstrap's card component.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8" />

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

<!-- Bootstrap CSS -->

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"

crossorigin="anonymous"

/>

<title>default text settings</title>

</head>

<body>

<div class="container">

<div class="row">

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

<div class="card" style="width: 18rem">

<img src="Images/image.jpg" class="card-img-top" alt="Thumbnail" />

<div class="card-body">

<h5 class="card-title">Thumbnail Title</h5>

<p class="card-text">Some description text here.</p>

<a href="#" class="btn btn-primary">Read More</a>

</div>

</div>

</div>

</div>

</div>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"

></script>

</body>

</html>

1. **In Bootstrap 4, what is flexbox?**

* In Bootstrap 4, Flexbox refers to the flexible box layout model. Flexbox is a CSS layout system that allows for efficient and dynamic arrangement of elements within a container.
* It provides a convenient way to distribute space, align items, and control the flow of content.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8" />

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

<!-- Bootstrap CSS -->

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"

crossorigin="anonymous"

/>

<title>default text settings</title>

</head>

<body>

<div class="container">

<div class="row">

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

<div class="d-flex">

<div class="p-2">Item 1</div>

<div class="p-2">Item 2</div>

<div class="p-2">Item 3</div>

</div>

</div>

</div>

</div>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"

></script>

</body>

</html>

1. **How can one create an alert in Bootstrap?**

* To create an alert in Bootstrap, you can use the alert class along with contextual classes to define the appearance of the alert
* You can further enhance the alert by including additional content, such as a close button or other HTML elements, within the alert container.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8" />

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

<!-- Bootstrap CSS -->

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"

crossorigin="anonymous"

/>

<title>default text settings</title>

</head>

<body>

<div class="container">

<div class="row">

<div class="alert alert-info alert-dismissible fade show" role="alert">

This is an info alert.

<button type="button" class="close" data-dismiss="alert" aria-label="Close">

<span aria-hidden="true">&times;</span>

</button>

</div>

</div>

</div>

</div>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"

></script>

</body>

</html>

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

* A Bootstrap card is a flexible and versatile content container that allows you to organise and display various types of information.
* It provides a structured layout with headers, bodies, footers, and optional image and button components.
* To create a Bootstrap card, you can use the <div> element with the class card and its associated card components.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8" />

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

<!-- Bootstrap CSS -->

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"

crossorigin="anonymous"

/>

<title>default text settings</title>

</head>

<body>

<div class="container">

<div class="row bg-success">

<div class="col-12">

<div class="card">

<img src="Images/image.jpg" class="card-img-top" alt="Card Image" />

<div class="card-body">

<h5 class="card-title">Card Title</h5>

<p class="card-text">Some text describing the card content.</p>

<a href="#" class="btn btn-primary">Read More</a>

</div>

</div>

</div>

</div>

</div>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"

></script>

</body>

</html>