

MERN Stack Journey – Class 07 Notes

Introduction to Bootstrap (Part 1)

Reusability of CSS Rulesets

If we want the **same style for multiple HTML elements**, we can write the CSS ruleset **once** and reuse it using class names.

Example

```
.button {  
  width: 138px;  
  height: 36px;  
  border-width: 0px;  
  border-radius: 10px;  
}
```

```
<button class="button">Get Started</button>  
<button class="button">Visit Now</button>
```

MCQ

Can we write the CSS Ruleset once and use it for multiple HTML elements? - A) Yes ☒ - B) No

Correct Answer: Yes

Multiple Class Names in HTML

An HTML element can have **multiple class names**, separated by spaces.

Syntax

```
<tag class="name1 name2 name3">Content</tag>
```

Example

```
.button {  
  width: 138px;  
  height: 36px;  
  border-radius: 10px;
```

```
}  
.button-green {  
  background-color: #8cc63f;  
}
```

```
<button class="button button-green">Get Started</button>
```

MCQs

What is the correct syntax to provide multiple class names? - A) class="name1,name2" - B) class="name1 name2" ☒ - C) class="name1+name2" - D) class="name1.name2"

Identify the class names in the syntax:

```
<tag class="name1 name2 name3 name4">Welcome</tag>
```

- A) class - B) tag - C) name1, name2, name3, name4 ☒ - D) Welcome

Bootstrap Introduction

Bootstrap is a large collection of **predefined reusable code snippets** written in: - HTML - CSS - JavaScript

It provides ready-made components like: - Buttons - Cards - Alerts - Carousels - Forms

MCQ

What is a wide range of predefined reusable code snippets written in HTML, CSS, and JavaScript called? - A) CSS Ruleset - B) Attributes - C) Bootstrap ☒

How to Use Bootstrap (Bootstrap CDN)

To use Bootstrap, add the following CDN links inside the `<head>` tag.

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">  
<script src="https://code.jquery.com/jquery-3.5.1.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://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
```

Bootstrap Buttons

Bootstrap uses the class `btn` to style buttons.

```
<button class="btn btn-primary">Get Started</button>
<button class="btn btn-success">Get Started</button>
<button class="btn btn-danger">Get Started</button>
```

Outline Buttons

Replace `btn-` with `btn-outline-`

```
<button class="btn btn-outline-primary">Get Started</button>
```

MCQ

Which Bootstrap class styles a button? - A) button - B) btn ☒ - C) style - D) class

Bootstrap Text Colors

```
<p class="text-primary">Tourism</p>
<p class="text-success">Tourism</p>
<p class="text-danger">Tourism</p>
```

MCQ

Which Bootstrap class applies color to text? - A) btn-primary - B) bg-primary - C) text-primary ☒ - D) btn

Text Transform Classes

```
<p class="text-uppercase">PLAN YOUR TRIP</p>
<p class="text-lowercase">PLAN YOUR TRIP</p>
<p class="text-capitalize">plan your trip</p>
```

MCQ

Which class converts text to uppercase? - A) text-primary - B) text-capitalize - C) text-uppercase ☒ - D) text

Bootstrap Background Colors

```
<div class="bg-primary">Tourism</div>
<div class="bg-warning">Tourism</div>
<div class="bg-dark text-light">Tourism</div>
```

Important Warning (VERY IMPORTANT)

❌ Do NOT override Bootstrap predefined class names in your CSS.

Wrong

```
.btn {
  background-color: blue;
}
```

Correct


```
.my-button {
  background-color: blue;
}
```

Interview Questions (Must Prepare)

1. What is Bootstrap and why is it used?
2. What is Bootstrap CDN?
3. Difference between `btn` and `btn-outline-primary`?
4. Can an HTML element have multiple class names?
5. Why should we avoid overriding Bootstrap classes?
6. Difference between `text-primary` and `bg-primary`?
7. Is Bootstrap a CSS framework or JavaScript framework?

Key Takeaways

- Bootstrap helps in **rapid UI development**
- Uses **predefined reusable classes**
- Supports **responsive design**
- Saves development time
- Widely used in real-world projects

 **Next Class:** Bootstrap Grid System & Layouts (VERY IMPORTANT) 