Bootstrap Notes + Examples

Intro: Bootstrap ek CSS + JS framework hai jisse aap **fast, responsive aur modern websites** bana sakte ho. Isme pre-made classes, components aur utilities hote hain—matlab design banane me time nahi lagta.

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1) Bootstrap Kya Hai?

- Ready-made design system.

- Mobile-first & responsive.

- Buttons, navbar, cards, forms sab ready mil jate hain.

- Bas class lagao → design ban gaya.

Example:

<button class="btn btn-primary">Click Me</button>

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2) Setup Kaise Karein?

(A) CDN Method — sabse easy

HTML ke <head> me ye daalo:

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>

Aur kaam start!

(B) Download Version

- Bootstrap.com se download karo

- CSS & JS files ko project me include kro

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3) Container (Layout Ka Base)

Bootstrap me layout **container** se start hota hai:

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```
<div class="container">

<h1>Hello Bootstrap</h1>

</div>
```

Types:

- container (automatic responsive)
- container-fluid (full width)

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4) Grid System (Most Important)

Bootstrap ka 12-column layout hota hai.

Example: 3 columns:

```
<div class="container">

<div class="row">

<div class="col-4 bg-light">A</div>

<div class="col-4 bg-secondary">B</div>

<div class="col-4 bg-light">C</div>

</div>

</div>
```

Responsive Columns

- col-sm-6
- col-md-4
- col-lg-3

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5) Typography

```
<h1 class="display-4">Big Text</h1>

<p class="lead">Important paragraph</p>

<p class="text-center text-primary">Centered Blue Text</p>
```

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6) Colors

Bootstrap ke color classes:

- text-primary, bg-success, text-warning, etc.

<p class="text-danger">Error message</p>

<div class="bg-primary text-white p-3">Blue Box</div>

7) Buttons

<button class="btn btn-primary">Primary</button>

<button class="btn btn-outline-danger">Delete</button>

Button Types:

- btn-primary
- btn-secondary
- btn-success
- btn-danger
- btn-warning
- btn-info
- btn-dark

8) Navbar (LMS Style)

<nav class="navbar navbar-expand-lg navbar-light bg-light shadow-sm">

<div class="container">

MyLMS

<button class="navbar-toggler" data-bs-toggle="collapse" data-bs-target="#nav">

</button>

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```
<div class="collapse navbar-collapse" id="nav">

<ul class="navbar-nav ms-auto">

<li class="nav-item"><a class="nav-link" href="#">Home</a></li>

<li class="nav-item"><a class="nav-link" href="#">Courses</a></li>

<li class="nav-item"><a class="nav-link" href="#">Contact</a></li>

</ul>

</div>

</div>

</nav>
```

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9) Cards

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

<img src="img.jpg" class="card-img-top" alt="...">

<div class="card-body">

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

<p class="card-text">Small description of the course.</p>

<a href="#" class="btn btn-primary">View Course</a>

</div>

</div>
```

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10) Forms

```
<div class="container mt-4">

<form>

<div class="mb-3">

<label class="form-label">Email</label>
```

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```
<input type="email" class="form-control" />

</div>

<div class="mb-3">

<label>Password</label>

<input type="password" class="form-control" />

</div>

<button class="btn btn-success">Submit</button>

</form>

</div>
```

---

11) Alerts

```
<div class="alert alert-warning">Warning message</div>

<div class="alert alert-success">Success message</div>
```

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12) Modal (Popup Box)

```
<button class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#m">Open Modal</button>


<div class="modal fade" id="m">

<div class="modal-dialog">

<div class="modal-content">

<div class="modal-header"><h5>Title</h5></div>

<div class="modal-body">Modal content...</div>

<div class="modal-footer">

<button class="btn btn-secondary" data-bs-dismiss="modal">Close</button>

</div>
```

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</div>

</div>

</div>

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13) Spacing Utilities

- p-3 → padding

- m-2 → margin

- mt-4 → margin-top

- px-5 → padding-left + right

Example:

```
<div class="p-4 m-3 bg-light">Spacing Example</div>
```

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14) Flexbox Utilities

```
<div class="d-flex justify-content-between align-items-center p-3 bg-dark text-white">

<p>Left</p>

<p>Right</p>

</div>
```

Useful classes:

- d-flex

- justify-content-center

- align-items-center

- flex-column

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15) Grid + Card Example (Courses Layout)

```
<div class="container mt-4">

<div class="row g-4">
```

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```
<div class="col-md-4">

<div class="card p-2 shadow-sm">

<img src="img.jpg" class="card-img-top" />

<div class="card-body">

<h5 class="card-title">Course 1</h5>

<p>Learn HTML & CSS</p>

<button class="btn btn-primary">Enroll</button>

</div>

</div>

</div>

</div>

</div>
```

---

16) Icons (Bootstrap Icons)

Link add karo:

```
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.1/font/bootstrap-icons.css">
```

Use:

```
<i class="bi bi-alarm"></i>
```

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17) Tables

```
<table class="table table-striped table-bordered">

<tr>

<th>Name</th><th>Email</th>

</tr>

<tr>
```

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```
<td>Aman</td><td>aman@gmail.com</td>

</tr>

</table>
```

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18) Progress Bar

```
<div class="progress">

<div class="progress-bar w-50">50%</div>

</div>
```

---

19) Accordion (FAQ style)

```
<div class="accordion" id="faq">

<div class="accordion-item">

<h2 class="accordion-header">

<button class="accordion-button" data-bs-toggle="collapse" data-bs-target="#q1">Question 1</button>

</h2>

<div id="q1" class="accordion-collapse collapse show">

<div class="accordion-body">Answer here</div>

</div>

</div>

</div>
```

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20) Bootstrap Ka Fayda

- Faster UI development

- Responsive built-in

- Clean & professional design automatically milta

Bootstrap Notes + Examples

- Bahut ready-made components

- Documentation best → https://getbootstrap.com

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21) Practice Ideas

1. Bootstrap se Login Page banao.

2. Navigation bar + Slider + Footer layout banao.

3. 3-column course cards grid layout.

4. Dashboard page with sidebar + cards.