

Module 12-Magic of Bootstrap (Getting started)

Important Link: <https://getbootstrap.com/>

Important Topic: background, border, colors, overflow, position, shadow, margin, padding, width, height, responsive image, image thumbnail, table, striped table, image slider, carousel, card, button, navbar.

এই মডিউল থেকে আমি কি কি শিখতে পারবো

১. বুটস্ট্রাপ কিভাবে ইউজ করতে হয়

২. বুটস্ট্রাপের কমন কিছু CSS ক্লাস। যেমন borders, colors, overflow, positions, shadow, margin, padding, width, height

৩. ইমেজ কে কিভাবে রেসপনসিভ করে। টেবিল এর মধ্যে চমক কিভাবে আনে

৪. বুটস্ট্রাপ এর কিছু গুরুত্বপূর্ণ কম্পোনেন্ট কিভাবে বানায়। যেমন image slider বা carousel । ওয়েবসাইট এ কার্ড কিভাবে বানায় card, card design, card image, card group । Navbar, Button, button group, spinner, tooltips, scrollspy, toasts, ইত্যাদি

12-1 Getting started with bootstrap

Head section..... এর ভিতরে

```
<!-- Bootstrap CSS -->
<link
  href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.c
ss"
  rel="stylesheet"
  integrity="sha384-
1BmE4kWBq78iYhF1dvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
  crossorigin="anonymous"
/>
```

Body section এর ভিতরে

```
<!-- Option 2: Separate Popper and Bootstrap JS -->
<script
  src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.
min.js"
```

```
    integrity="sha384-
ka7Sk0GlN4gmtz2MlQnikT1wXgYs0g+OMhuP+IlRH9sENB00LRn5q+8nbTov4+1p"
    crossorigin="anonymous"
  ></script>
```

Other:

Head section..... এর ভিতরে

```
<link rel="stylesheet" href="./CSS/bootstrap.min.css" />
```

Body section এর ভিতরে

```
<script src="./JS/bootstrap.bundle.min.js"></script>
```

12-2 Insider view of Bootstrap and use background classes

```
<main>
  <div class="p-3 mb-2 bg-primary text-white">.bg-primary</div>
  <div class="p-3 mb-2 bg-secondary text-white">.bg-secondary</div>
  <div class="p-3 mb-2 bg-success text-white">.bg-success</div>
  <div class="p-3 mb-2 bg-danger text-white">.bg-danger</div>
  <div class="p-3 mb-2 bg-warning text-dark">.bg-warning</div>
  <div class="p-3 mb-2 bg-info text-dark">.bg-info</div>
  <div class="p-3 mb-2 bg-light text-dark">.bg-light</div>
  <div class="p-3 mb-2 bg-dark text-white">.bg-dark</div>
  <div class="p-3 mb-2 bg-body text-dark">.bg-body</div>
  <div class="p-3 mb-2 bg-white text-dark">.bg-white</div>
  <div class="p-3 mb-2 bg-transparent text-dark">.bg-transparent</div>
</main>
```

12-3 Explore borders, colors, overflow and positions

Borders:

```
<div style="display: grid; justify-content: center">
  <!-- Additive -->

  <span class="border">Md.Hamid Hosen</span>
  <span class="border-top">Md.Hamid Hosen</span>
  <span class="border-end">Md.Hamid Hosen</span>
  <span class="border-bottom">Md.Hamid Hosen</span>
  <span class="border-start">Md.Hamid Hosen</span>
```

```

<br />
<br />

<!-- Subtractive -->
<span class="border-0">Md.Hamid Hosen</span>
<span class="border-top-0">Md.Hamid Hosen</span>
<span class="border-end-0">Md.Hamid Hosen</span>
<span class="border-bottom-0">Md.Hamid Hosen</span>
<span class="border-start-0">Md.Hamid Hosen</span>

<br />
<br />

<!-- Border color and Border-width and Border-radius and Sizes-->
<span class="border border-primary border-1 rounded rounded-3">Md.Hamid
Hosen</span>
<span class="border border-secondary border-2 rounded-top"
  >Md.Hamid Hosen</span>
>
<span class="border border-success border-3 rounded-end"
  >Md.Hamid Hosen</span>
>
<span class="border border-danger border-4 rounded-bottom"
  >Md.Hamid Hosen</span>
>
<span class="border border-warning border-5 rounded rounded-3"
  >Md.Hamid Hosen</span>
>
<span class="border border-info border-5 rounded-circle"
  >Md.Hamid Hosen</span>
>
<span class="border border-light border-5 rounded-pill rounded-3"
  >Md.Hamid Hosen</span>
>
<span class="border border-dark border-5">Md.Hamid Hosen</span>
<span class="border border-white border-5">Md.Hamid Hosen</span>
</div>

```

Color:

```

<p class="text-primary">.text-primary</p>
<p class="text-secondary">.text-secondary</p>
<p class="text-success">.text-success</p>

```

```
<p class="text-danger">.text-danger</p>
<p class="text-warning bg-dark">.text-warning</p>
<p class="text-info bg-dark">.text-info</p>
<p class="text-light bg-dark">.text-light</p>
<p class="text-dark">.text-dark</p>
<p class="text-body">.text-body</p>
<p class="text-muted">.text-muted</p>
<p class="text-white bg-dark">.text-white</p>
<p class="text-black-50">.text-black-50</p>
<p class="text-white-50 bg-dark">.text-white-50</p>
```

Overflow:

```
<div class="overflow-auto">...</div>
<div class="overflow-hidden">...</div>
<div class="overflow-visible">...</div>
<div class="overflow-scroll">...</div>
```

Position:

Position values:

```
<div class="position-static">...</div>
<div class="position-relative">...</div>
<div class="position-absolute">...</div>
<div class="position-fixed">...</div>
<div class="position-sticky">...</div>
```

Arrange elements:

```
<div class="position-relative">
  <div class="position-absolute top-0 start-0"></div>
  <div class="position-absolute top-0 end-0"></div>
  <div class="position-absolute top-50 start-50"></div>
  <div class="position-absolute bottom-50 end-50"></div>
  <div class="position-absolute bottom-0 start-0"></div>
  <div class="position-absolute bottom-0 end-0"></div>
</div>
```

Center elements:

```

<div class="position-relative">
  <div class="position-absolute top-0 start-0 translate-middle"></div>
  <div class="position-absolute top-0 start-50 translate-middle"></div>
  <div class="position-absolute top-0 start-100 translate-middle"></div>
  <div class="position-absolute top-50 start-0 translate-middle"></div>
  <div class="position-absolute top-50 start-50 translate-middle"></div>
  <div class="position-absolute top-50 start-100 translate-middle"></div>
  <div class="position-absolute top-100 start-0 translate-middle"></div>
  <div class="position-absolute top-100 start-50 translate-middle"></div>
  <div class="position-absolute top-100 start-100 translate-middle"></div>
</div>

```

12-4 Try bootstrap shadow, margin, padding, width, height

Shadow and margin and padding:

```

<div class="shadow-none p-3 mb-5 bg-light rounded">No shadow</div>
<div class="shadow-sm p-3 mb-5 bg-body rounded">Small shadow</div>
<div class="shadow p-3 mb-5 bg-body rounded">Regular shadow</div>
<div class="shadow-lg p-3 mb-5 bg-body rounded">Larger shadow</div>

```

Width and height and max-width and max-height:

```

<div class="w-25 p-3" style="background-color: #eee;">Width 25%</div>
<div class="w-50 p-3" style="background-color: #eee;">Width 50%</div>
<div class="w-75 p-3" style="background-color: #eee;">Width 75%</div>
<div class="w-100 p-3" style="background-color: #eee;">Width 100%</div>
<div class="w-auto p-3" style="background-color: #eee;">Width auto</div>

```

```

<div style="height: 100px; background-color: rgba(255,0,0,0.1);">
  <div class="h-25 d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)">Height 25%</div>
  <div class="h-50 d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)">Height 50%</div>
  <div class="h-75 d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)">Height 75%</div>
  <div class="h-100 d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)">Height 100%</div>
  <div class="h-auto d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)">Height auto</div>
</div>

```

```



```

```

<div style="height: 100px; background-color: rgba(255,0,0,.1);">
  <div class="mh-100" style="width: 100px; height: 200px; background-color: rgba(0,0,255,.1);">Max-height
  100%</div>
</div>

```

Relative to the viewport:

```
<div class="min-vw-100">Min-width 100vw</div>
<div class="min-vh-100">Min-height 100vh</div>
<div class="vw-100">Width 100vw</div>
<div class="vh-100">Height 100vh</div>
```

Spacing:

Where *property* is one of:

- **m** - for classes that set **margin**
- **p** - for classes that set **padding**

Where *sides* is one of:

- **t** - for classes that set **margin-top** or **padding-top**
- **b** - for classes that set **margin-bottom** or **padding-bottom**
- **s** - (start) for classes that set **margin-left** or **padding-left** in LTR, **margin-right** or **padding-right** in RTL
- **e** - (end) for classes that set **margin-right** or **padding-right** in LTR, **margin-left** or **padding-left** in RTL
- **x** - for classes that set both ***-left** and ***-right**
- **y** - for classes that set both ***-top** and ***-bottom**
- **blank** - for classes that set a **margin** or **padding** on all 4 sides of the element

Where *size* is one of:

- **0** - for classes that eliminate the **margin** or **padding** by setting it to 0
- **1** - (by default) for classes that set the **margin** or **padding** to \$spacer * .25
- **2** - (by default) for classes that set the **margin** or **padding** to \$spacer * .5
- **3** - (by default) for classes that set the **margin** or **padding** to \$spacer
- **4** - (by default) for classes that set the **margin** or **padding** to \$spacer * 1.5
- **5** - (by default) for classes that set the **margin** or **padding** to \$spacer * 3
- **auto** - for classes that set the **margin** to auto

Gap:

```
<div class="d-grid gap-3">
  <div class="p-2 bg-light border">Grid item 1</div>
  <div class="p-2 bg-light border">Grid item 2</div>
  <div class="p-2 bg-light border">Grid item 3</div>
</div>
```

Text alignment:

<p class="text-start">Start aligned text on all viewport sizes.</p>

<p class="text-center">Center aligned text on all viewport sizes.</p>

<p class="text-end">End aligned text on all viewport sizes.</p>

<p class="text-sm-start">Start aligned text on viewports sized SM (small) or wider.</p>

Start aligned text on viewports sized MD (medium) or wider.

<p class="text-lg-start">Start aligned text on viewports sized LG (large) or wider.</p>

`<p class="text-xl-start">Start aligned text on viewports sized XL (extra-large) or wider.</p>`

Text wrapping and overflow:

This text should wrap.

Prevent text from wrapping with a `.text-nowrap` class.

<div class="text-nowrap bd-highlight" style="width: 8rem;">

This text should overflow the parent.

Word break:

p class="text-

break">တတ
တတတ</p>

Text transforms:

<p class="text-lowercase">Lowercased text.</p>

<p class="text-uppercase">Uppercased text.</p>

<p class="text-capitalize">CapiTaliZed text.</p>

Font size:

<p class="fs-1">.fs-1 text</p>

```
<p class="fs-2">.fs-2 text</p>
<p class="fs-3">.fs-3 text</p>
<p class="fs-4">.fs-4 text</p>
<p class="fs-5">.fs-5 text</p>
<p class="fs-6">.fs-6 text</p>
```

Font weight and italics:

```
<p class="fw-bold">Bold text.</p>
<p class="fw-bolder">Bolder weight text (relative to the parent element).</p>
<p class="fw-normal">Normal weight text.</p>
<p class="fw-light">Light weight text.</p>
<p class="fw-lighter">Lighter weight text (relative to the parent element).</p>
<p class="fst-italic">Italic text.</p>
<p class="fst-normal">Text with normal font style</p>
```

Line height:

```
<p class="lh-1">This is a long paragraph written to show how the line-height of an element is affected by our
utilities. Classes are applied to the element itself or sometimes the parent element. These classes can be customized
as needed with our utility API.</p>
<p class="lh-sm">This is a long paragraph written to show how the line-height of an element is affected by our
utilities. Classes are applied to the element itself or sometimes the parent element. These classes can be customized
as needed with our utility API.</p>
<p class="lh-base">This is a long paragraph written to show how the line-height of an element is affected by our
utilities. Classes are applied to the element itself or sometimes the parent element. These classes can be customized
as needed with our utility API.</p>
<p class="lh-lg">This is a long paragraph written to show how the line-height of an element is affected by our
utilities. Classes are applied to the element itself or sometimes the parent element. These classes can be customized
as needed with our utility API.</p>
```

Text decoration:

```
<p class="text-decoration-underline">This text has a line underneath it.</p>
<p class="text-decoration-line-through">This text has a line going through it.</p>
<a href="#" class="text-decoration-none">This link has its text decoration removed</a>
```

12-5 Responsive image, image thumbnail, table, striped table

Headings:

```
<p class="h1">h1. Bootstrap heading</p>
```



```
<p class="h2">h2. Bootstrap heading</p>
<p class="h3">h3. Bootstrap heading</p>
<p class="h4">h4. Bootstrap heading</p>
<p class="h5">h5. Bootstrap heading</p>
<p class="h6">h6. Bootstrap heading</p>
```

Display headings:

```
<h1 class="display-1">Display 1</h1>
<h1 class="display-2">Display 2</h1>
<h1 class="display-3">Display 3</h1>
<h1 class="display-4">Display 4</h1>
<h1 class="display-5">Display 5</h1>
<h1 class="display-6">Display 6</h1>
```

Images:

```
<!-- Image -->
<!-- Responsive images -->

<br>

<!-- Image thumbnails -->

<br>

<!-- Aligning images -->


```

Tables:

```
<!------- Tables table-striped----->
<!-- Overview -->
<table class="table table-striped table-dark table-hover table-bordered
border-primary table-sm">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">First</th>
      <th scope="col">Last</th>
      <th scope="col">Handle</th>
    </tr>
```

```

</thead>
<tbody>
  <tr>
    <th scope="row">1</th>
    <td>Mark</td>
    <td>Otto</td>
    <td>@mdo</td>
  </tr>
  <tr class="table-active">
    <th scope="row">2</th>
    <td>Jacob</td>
    <td>Thornton</td>
    <td>@fat</td>
  </tr>
  <tr>
    <th scope="row">3</th>
    <td colspan="2">Larry the Bird</td>
    <td>@twitter</td>
  </tr>
</tbody>
</table>

```

12-6 create an image slider, carousel using bootstrap

```

<!-- Slides only -->
<div class="w-25 mx-auto">
  <div
    id="carouselExampleSlidesOnly"
    class="carousel slide"
    data-bs-ride="carousel"
  >
    <div class="carousel-inner">
      <div class="carousel-item active">
        
      </div>
      <div class="carousel-item">
        
      </div>
      <div class="carousel-item">
        
      </div>
    </div>
  </div>
</div>

```



```

<div class="w-25 mx-auto">
  <div
    id="carouselExampleIndicators"
    class="carousel slide"
    data-bs-ride="carousel"
  >
    <div class="carousel-indicators">
      <button
        type="button"
        data-bs-target="#carouselExampleIndicators"
        data-bs-slide-to="0"
        class="active"
        aria-current="true"
        aria-label="Slide 1"
      ></button>
      <button
        type="button"
        data-bs-target="#carouselExampleIndicators"
        data-bs-slide-to="1"
        aria-label="Slide 2"
      ></button>
      <button
        type="button"
        data-bs-target="#carouselExampleIndicators"
        data-bs-slide-to="2"
        aria-label="Slide 3"
      ></button>
    </div>
    <div class="carousel-inner">
      <div class="carousel-item active">
        
      </div>
      <div class="carousel-item">
        
      </div>
      <div class="carousel-item">
        
      </div>
    </div>
    <button
      class="carousel-control-prev"
      type="button"
      data-bs-target="#carouselExampleIndicators"
      data-bs-slide="prev"
    >

```

```

        <span class="carousel-control-prev-icon" aria-hidden="true"></span>
        <span class="visually-hidden">Previous</span>
    </button>
    <button
        class="carousel-control-next"
        type="button"
        data-bs-target="#carouselExampleIndicators"
        data-bs-slide="next"
    >
        <span class="carousel-control-next-icon" aria-hidden="true"></span>
        <span class="visually-hidden">Next</span>
    </button>
</div>
</div>

```

12-7 Website card, card design, card image, card group

Card:

```

<div class="card" style="width: 18rem;">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">Some quick example text to build on the card title and make up the bulk of the card's content.</p>
    <a href="#" class="btn btn-primary">Go somewhere</a>
  </div>
</div>

```

Card image:

```

<div class="card" style="width: 18rem;">
  
  <div class="card-body">
    <p class="card-text">Some quick example text to build on the card title and make up the bulk of the card's content.</p>
  </div>
</div>

```

Card groups:

```

<div class="card-group">
  <div class="card">
    
    <div class="card-body">

```

```

    <h5 class="card-title">Card title</h5>
    <p class="card-text">This is a wider card with supporting text below as a natural lead-in to additional content.
This content is a little bit longer.</p>
    <p class="card-text"><small class="text-muted">Last updated 3 mins ago</small></p>
  </div>
</div>
<div class="card">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">This card has supporting text below as a natural lead-in to additional content.</p>
    <p class="card-text"><small class="text-muted">Last updated 3 mins ago</small></p>
  </div>
</div>
<div class="card">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">This is a wider card with supporting text below as a natural lead-in to additional content.
This card has even longer content than the first to show that equal height action.</p>
    <p class="card-text"><small class="text-muted">Last updated 3 mins ago</small></p>
  </div>
</div>
</div>

```

12-8 Button, button group, spinner, tooltips, scrollspy, toasts

Button:

```

<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-link">Link</button>

```

Button tags:

```

<a class="btn btn-primary" href="#" role="button">Link</a>
<button class="btn btn-primary" type="submit">Button</button>
<input class="btn btn-primary" type="button" value="Input">
<input class="btn btn-primary" type="submit" value="Submit">
<input class="btn btn-primary" type="reset" value="Reset">

```

Outline buttons:

```

<button type="button" class="btn btn-outline-primary">Primary</button>
<button type="button" class="btn btn-outline-secondary">Secondary</button>
<button type="button" class="btn btn-outline-success">Success</button>
<button type="button" class="btn btn-outline-danger">Danger</button>
<button type="button" class="btn btn-outline-warning">Warning</button>
<button type="button" class="btn btn-outline-info">Info</button>
<button type="button" class="btn btn-outline-light">Light</button>
<button type="button" class="btn btn-outline-dark">Dark</button>

```

1. According : <https://getbootstrap.com/docs/5.1/components/accordion/>
2. Badges : <https://getbootstrap.com/docs/5.1/components/badge/>
3. Breadcrumb : <https://getbootstrap.com/docs/5.1/components/breadcrumb/>
4. Button group : <https://getbootstrap.com/docs/5.1/components/button-group/>
5. Close button : <https://getbootstrap.com/docs/5.1/components/close-button/>
6. Collapse : <https://getbootstrap.com/docs/5.1/components/collapse/>
7. Dropdown : <https://getbootstrap.com/docs/5.1/components/dropdowns/>
8. List Group : <https://getbootstrap.com/docs/5.1/components/list-group/>
9. Pagination : <https://getbootstrap.com/docs/5.1/components/pagination/>
10. Popovers : <https://getbootstrap.com/docs/5.1/components/popovers/>
11. Progress : <https://getbootstrap.com/docs/5.1/components/progress/>
12. Scroll spy : <https://getbootstrap.com/docs/5.1/components/scrollspy/>
13. Spinners : <https://getbootstrap.com/docs/5.1/components/spinners/>
14. Toasts : <https://getbootstrap.com/docs/5.1/components/toasts/>
15. Tooltips : <https://getbootstrap.com/docs/5.1/components/tooltips/>
16. Text truncation : <https://getbootstrap.com/docs/5.1/helpers/text-truncation/>

12-9 Module Summary Nav tag, navigation, fixed navbar

Navbar:

```

<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" href="#">Home</a>
        </li>
        <li class="nav-item">

```

```

    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item dropdown">
    <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-bs-
toggle="dropdown" aria-expanded="false">
      Dropdown
    </a>
    <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
      <li><a class="dropdown-item" href="#">Action</a></li>
      <li><a class="dropdown-item" href="#">Another action</a></li>
      <li><hr class="dropdown-divider"></li>
      <li><a class="dropdown-item" href="#">Something else here</a></li>
    </ul>
  </li>
  <li class="nav-item">
    <a class="nav-link disabled">Disabled</a>
  </li>
</ul>
<form class="d-flex">
  <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
  <button class="btn btn-outline-success" type="submit">Search</button>
</form>
</div>
</div>
</nav>

```

Navs and tabs :

```

<ul class="nav">
  <li class="nav-item">
    <a class="nav-link active" aria-current="page" href="#">Active</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link disabled">Disabled</a>
  </li>
</ul>

```


