Complete HTML Guide

1. Introduction to Bootstrap

Bootstrap is a popular front-end framework used to create responsive and mobile-first websites quickly using ready-made CSS and JavaScript components.

You can include Bootstrap via CDN:

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">

2. Grid System

Bootstrap uses a 12-column responsive grid layout system.

Example:

```
<div class="container">
  <div class="row">
    <div class="col-6">Column 1</div>
    <div class="col-6">Column 2</div>
  </div>
</div>
```

3. Typography

Bootstrap provides default styles for headings, paragraphs, and text utilities.

Example:

```
<h1 class="display-1">Big Heading</h1>
<p class="text-muted">Muted text</p>
<p class="fw-bold">Bold text</p>
```

4. Buttons

Buttons can be styled using predefined Bootstrap classes.

Example:

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

```
<button class="btn btn-danger">Danger</button>
```

5. Forms

Bootstrap makes it easy to style forms with classes.

Example:

```
<form>
  <div class="mb-3">
    <label class="form-label">Email</label>
    <input type="email" class="form-control">
  </div>
</form>
```

6. Navbar

Bootstrap's navbar component creates a responsive navigation bar.

Example:

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Brand</a>
</nav>
```

7. Cards

Cards are flexible content containers.

Example:

```
<div class="card" style="width: 18rem;">
  <div class="card-body">
    <h5 class="card-title">Card Title</h5>
    <p class="card-text">Card content goes here.</p>
```

```
  </div>

</div>
```

8. Modals

Modals are pop-up dialogs used for user interactions.

Example:

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

<div class="modal fade" id="myModal">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-body">This is a modal</div>
    </div>
  </div>
</div>
```

9. Alerts

Alerts are used to show messages or warnings.

Example:

```
<div class="alert alert-success">Success message!</div>
<div class="alert alert-danger">Error occurred.</div>
```

10. Utilities

Bootstrap includes utility classes for margin, padding, display, color, etc.

Example:

```
<div class="p-3 mb-2 bg-warning text-dark">Warning Box</div>
```

11. Carousel

Used to create image sliders.

Example:

```
<div id="carouselExample" class="carousel slide" data-bs-ride="carousel">
  <div class="carousel-inner">
   <div class="carousel-item active">
    <img src="img1.jpg" class="d-block w-100" alt="...">
   </div>
  </div>
</div>
```

12. Collapse

Collapse hides and shows content with smooth transitions.

Example:

```
<button class="btn btn-info" data-bs-toggle="collapse" data-bs-target="#demo">Toggle</button>
<div id="demo" class="collapse">Hidden content</div>
```

13. Spinners

Spinners are used to indicate loading.

Example:

```
<div class="spinner-border text-primary"></div>
```

14. Responsive Classes

Bootstrap has classes like d-none, d-sm-block, etc., to control visibility across devices.

Example:

```
<p class="d-none d-md-block">Visible only on medium and larger screens</p>
```