

1. Bootstrap Framework

Bootstrap is an open source, front-end framework that contains tools to design responsive web sites that render well on a mobile device as well. It consists of pre-designed HTML, CSS, and JavaScript elements called navigation bars, buttons, forms, modals, and grids, which enable developers to develop modern designs without having to build all of the code from scratch.

2. Importance of Bootstrap

- a. Faster development
- b. Responsive by default
- c. Customizable
- d. Consistent design

3. Features of Bootstrap

- a. Grid System: Divides rows and columns for easy layout.
- b. Responsive utilities: Classes are the default for display control.
- c. Components: Navbars, buttons.
- d. Helper Classes: Classes like margin, padding.

4. How Bootstrap works

- At the beginning, we need to link the bootstrap.min.css file in the HTML, inside the <head> tag.
- We need to use a specific class name to apply Bootstrap's styles and layouts.

❖ Examples are given below:

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

```

3rd Trimester > boot2.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7      <link rel="stylesheet" href="bootstrap.min.css">
8  </head>
9  <body>
10     <!--Text Align-->
11     <p class="text-center">ISMT Collee</p>
12     <p class="text-end">sijan</p>
13     <p class="text-start">gupta</p>
14
15     <!--Malc-->
16     <button><a href="" class="text-decoration-none">College</a></button>
17     <p class="text-uppercase">Messi is the goat</p>
18     <p class="text-capitalize">meow meow meow meow</p>
19
20     <!--Nav bar-->
21     <ol class="list-unstyled text-end">
22         <li class="list-inline-item">Home</li>
23         <li class="list-inline-item">About</li>
24         <li class="list-inline-item">Contact</li>
25         <li class="list-inline-item">Gallery</li>
26     </ol>
27
28     <!--Coloring-->
29     <p class="text-primary">ISMT College</p>
30     <p class="text-dark">ISMT College</p>
31     <p class="text-success">ISMT College</p>
32     <p class="text-info">ISMT College</p>
33     <p class="text-warning">ISMT College</p>

```

```

27
28     <!--Coloring-->
29     <p class="text-primary">ISMT College</p>
30     <p class="text-dark">ISMT College</p>
31     <p class="text-success">ISMT College</p>
32     <p class="text-info">ISMT College</p>
33     <p class="text-warning">ISMT College</p>
34     <p class="text-danger">ISMT College</p>
35     <p class="text-secondary">ISMT College</p>
36
37     <p class="bg-primary">ISMT College</p>
38     <p class="bg-dark">ISMT College</p>
39     <p class="text-bg-dark">ISMT College</p>
40
41     <div class="bg-danger pt-3 pb-3 ps-3 pe-3">
42         <p class="text-bg-dark">ISMT College</p>
43     </div>
44
45 </body>
46 </html>

```



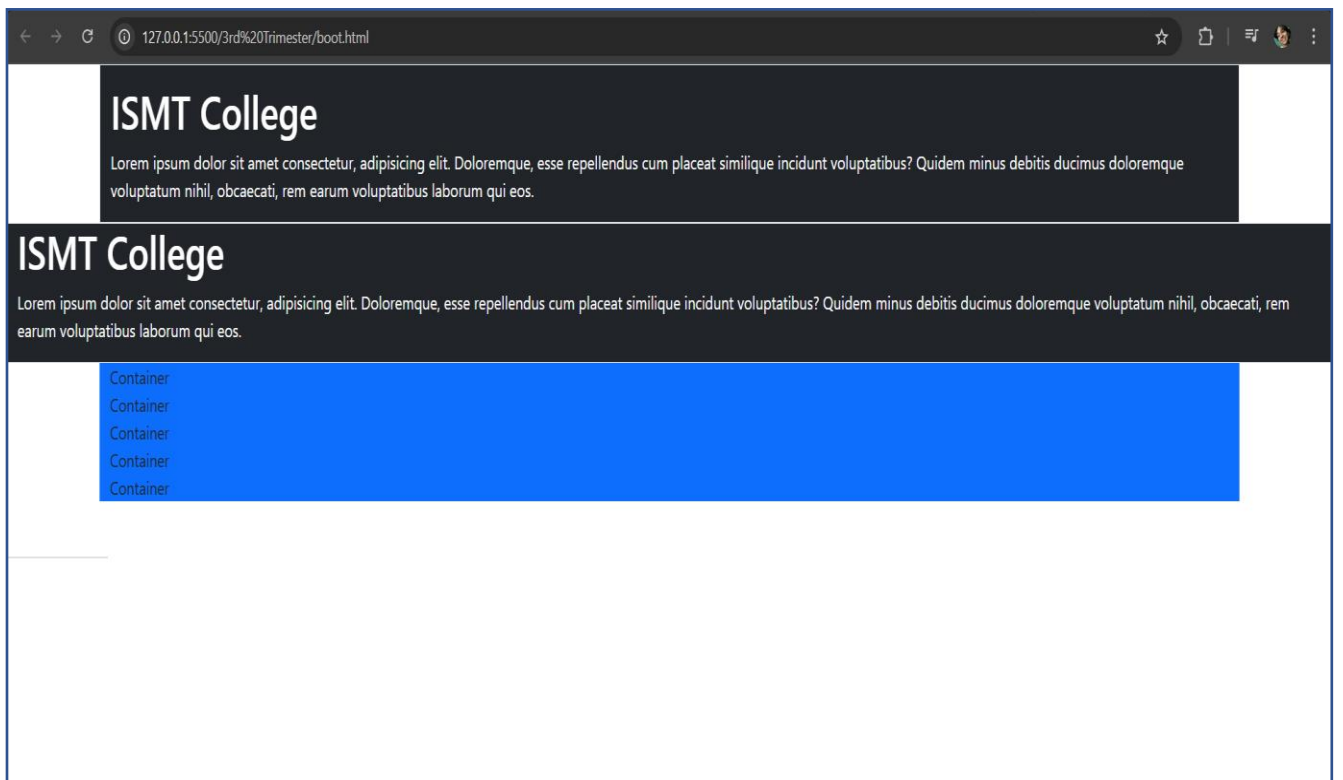
5. Learning Screenshot

a. Example one:

```

3rd Trimester > boot.html > html > body > div.container-fluid.border.bg-dark.text-white.mt-5000000000000000000
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7      <link rel="stylesheet" href="bootstrap.min.css">
8  </head>
9  <body>
10     <div class="container border pt-3 bg-dark text-white">
11         <h1>ISMT College</h1>
12         <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Doloremque, esse repellendus cum placeat si
13     </div>
14     <div class="container-fluid border bg-dark text-white mt-5000000000000000000">
15         <h1>ISMT College</h1>
16         <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Doloremque, esse repellendus cum placeat si
17     </div>
18     <div class="container-sm bg-primary">Container</div>
19     <div class="container-md bg-primary">Container</div>
20     <div class="container-lg bg-primary">Container</div>
21     <div class="container-xl bg-primary">Container</div>
22     <div class="container-xxl bg-primary">Container</div>
23     <br><br>
24
25     <div class="row">
26         <div class="col-1 bg-primary border">
27             <div class=""></div>
28         </div>
29     </div>
30 </body>
31 </html>

```



b. Example two:

```

3rd Trimester > boot3.html > html > head
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7      <link rel="stylesheet" href="bootstrap.min.css">
8  </head>
9  <body>
10     <!--Table-->
11     <table class="table table-striped table-hover table-bordered table-dark table-sm">
12         <tr class="table-primary">
13             <th>S.N.</th>
14             <th>Name</th>
15             <th>Email</th>
16             <th>Address</th>
17             <th>Contact</th>
18         </tr>
19         <tr class="table-success">
20             <td>1.</td>
21             <td>Sijan Gupta</td>
22             <td>ss@gmail</td>
23             <td>ss</td>
24             <td>990</td>
25         </tr>
26         <tr class="table-secondary">
27             <td>1.</td>
28             <td>Sijan Gupta</td>
29             <td>ss@gmail</td>
30             <td>ss</td>
31             <td>990</td>
32         </tr>
33         <tr class="table-info">

```

```

3rd Trimester > boot3.html > html > head
2  <html lang="en">
9  <body>
11     <table class="table table-striped table-hover table-bordered table-dark table-sm">
25         </tr>
26         <tr class="table-secondary">
27             <td>1.</td>
28             <td>Sijan Gupta</td>
29             <td>ss@gmail</td>
30             <td>ss</td>
31             <td>990</td>
32         </tr>
33         <tr class="table-info">
34             <td>1.</td>
35             <td>Sijan Gupta</td>
36             <td>ss@gmail</td>
37             <td>ss</td>
38             <td>990</td>
39         </tr>
40         <tr class="table-warning">
41             <td>1.</td>
42             <td>Sijan Gupta</td>
43             <td>ss@gmail</td>
44             <td>ss</td>
45             <td>990</td>
46         </tr>
47     </table>
48 </body>
49 </html>

```

S.N.	Name	Email	Address	Contact
1.	Sijan Gupta	ss@gmail	ss	990
1.	Sijan Gupta	ss@gmail	ss	990
1.	Sijan Gupta	ss@gmail	ss	990
1.	Sijan Gupta	ss@gmail	ss	990

c. Example three:

```

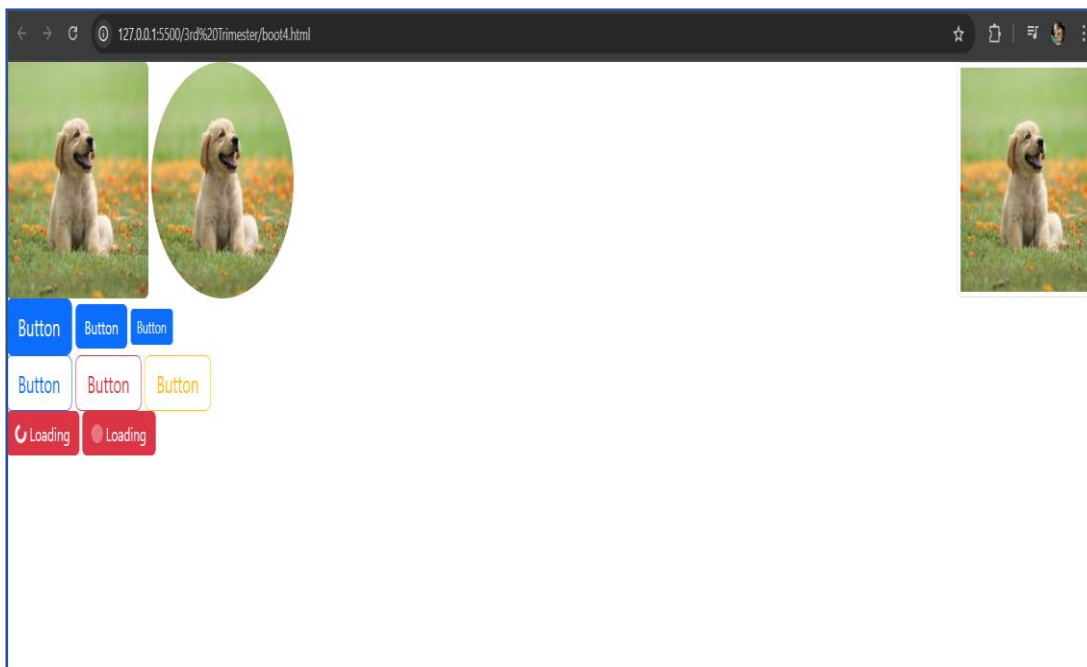
3rd Trimester > boot4.html > html > body > div > button.btn-primary
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Document</title>
7    <link rel="stylesheet" href="bootstrap.min.css">
8  </head>
9  <body>
10   <!--IMAGE-->
11   
12   
13   
14
15   <!--Button-->
16   <div>
17     <button class="btn btn-primary btn-lg">
18       Button
19     </button>
20     <button class="btn btn-primary">|
21       Button
22     </button>
23     <button class="btn btn-primary btn-sm">
24       Button
25     </button>
26   </div>
27
28   <div>
29     <button class="btn btn-outline-primary btn-lg">
30       Button
31     </button>
32     <button class="btn btn-outline-danger btn-lg">
33       Button

```

```

3rd Trimester > boot4.html > html > body > div > button.btn.btn-primary
 2  <html lang="en">
 9  <body>
16    <div>
25      </button>
26    </div>
27
28    <div>
29      <button class="btn btn-outline-primary btn-lg">
30        Button
31      </button>
32      <button class="btn btn-outline-danger btn-lg">
33        Button
34      </button>
35      <button class="btn btn-outline-warning btn-lg">
36        Button
37      </button>
38    </div>
39
40    <div>
41      <button class="btn btn-danger">
42        <span class="spinner-border spinner-border-sm"></span>
43        Loading
44      </button>
45      <button class="btn btn-danger">
46        <span class="spinner-grow spinner-grow-sm"></span>
47        Loading
48      </button>
49    </div>
50  </body>
51  </html>

```



6. Simple website using Bootstrap

3rd Trimester > extra.html > html > head > style > .hero

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1">
6    <title>Gaming Station</title>
7
8    <link href="bootstrap.min.css" rel="stylesheet">
9
10   <style>
11     html, body {
12       height: 100%;
13     }
14     body {
15       display: flex;
16       flex-direction: column;
17       font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
18     }
19     main {
20       flex: 1;
21     }
22
23     /* Navbar */
24     .navbar {
25       background: linear-gradient(90deg, #0d0d0d, #1f1f1f);
26     }
27
28     /* Hero Section */
29     .hero {
30       background: linear-gradient(rgba(0,0,0,0.6), rgba(0,0,0,0.6)),
31       url('https://images.unsplash.com/photo-1605902711622-cfb43c44367f') no-repeat center/cover;
32       color: #fff;
33       padding: 100px 0;

```

3rd Trimester > extra.html > html > head > style > .hero

```

2  <html lang="en">
3  <head>
10   <style>
29     .hero {
34   }
35   .hero h1 {
36     font-weight: 700;
37     font-size: 3rem;
38   }
39   .hero p {
40     font-size: 1.25rem;
41     margin-bottom: 20px;
42   }
43
44   /* Features */
45   .features {
46     background-color: #f8f9fa;
47     padding: 60px 0;
48   }
49   .card {
50     transition: transform 0.3s, box-shadow 0.3s;
51     border: none;
52     border-radius: 12px;
53   }
54   .card:hover {
55     transform: translateY(-10px);
56     box-shadow: 0 10px 25px rgba(0,0,0,0.2);
57   }
58   .card-title {
59     font-weight: 600;
60     color: #0d6efd;
61   }
62

```



```

3rd Trimester > extra.html > html > head > style > .hero
2  <html lang="en">
3  <head>
10 <style>
63  /* Footer */
64  footer {
65    background: #111;
66    color: #aaa;
67  }
68  footer p {
69    margin: 0;
70  }
71  footer a {
72    color: #0d6efd;
73    text-decoration: none;
74  }
75  footer a:hover {
76    text-decoration: underline;
77  }
78 </style>
79 </head>
80 <body>
81
82 <!-- Navbar -->
83 <nav class="navbar navbar-expand-lg navbar-dark">
84   <div class="container">
85     <a class="navbar-brand fw-bold text-primary" href="#"> GAMING STATION</a>
86     <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">
87       <span class="navbar-toggler-icon"></span>
88     </button>
89     <div class="collapse navbar-collapse" id="navbarNav">
90       <ul class="navbar-nav ms-auto">
91         <li class="nav-item"><a class="nav-link active" href="#">Home</a></li>

```

```

3rd Trimester > extra.html > html > head > style > .hero
2  <html lang="en">
80 <body>
83   <nav class="navbar navbar-expand-lg navbar-dark">
84     <div class="container">
89       <div class="collapse navbar-collapse" id="navbarNav">
96     </div>
97   </div>
98 </nav>
99
100 <!-- Main content -->
101 <main>
102   <!-- Hero Section -->
103   <header class="hero text-center">
104     <div class="container">
105       <h1>Welcome to Gaming Station</h1>
106       <p>Discover top games and accessories at unbeatable prices.</p>
107       <a href="#" class="btn btn-primary btn-lg">View Games</a>
108     </div>
109   </header>
110
111   <!-- Features Section -->
112   <section class="features">
113     <div class="container">
114       <div class="row text-center g-4">
115         <div class="col-md-4">
116           <div class="card shadow-sm p-3">
117             <div class="card-body">
118               <h5 class="card-title">Best Price</h5>
119               <p class="card-text">Get your favorite games at the most affordable prices.</p>
120               <a href="#" class="btn btn-outline-primary">Read More</a>
121             </div>
122           </div>

```

```

3rd Trimester > extra.html > html > head > style > .hero
 2  <html lang="en">
80  <body>
101  <main>
112    <section class="features">
113      <div class="container">
131        </div>
132      </div>
133    </div>
134
135    <div class="col-md-4">
136      <div class="card shadow-sm p-3">
137        <div class="card-body">
138          <h5 class="card-title">Accessories</h5>
139          <p class="card-text">Get the best gaming keyboards, mice, and headsets.</p>
140          <a href="#" class="btn btn-outline-primary">Read More</a>
141        </div>
142      </div>
143    </div>
144  </div>
145 </div>
146 </section>
147 </main>
148
149 <!-- Footer -->
150 <footer class="text-center py-4">
151   <div class="container">
152     <p>&copy; 2025 <strong>Sijan</strong>. All rights reserved. | <a href="#">Privacy Policy</a></p>
153   </div>
154 </footer>
155 </body>
156 </html>
157

```

