



Lab Report No. 05

Course Code: CSE - 4116

Course Title: Web Technologies

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Topic: CSS Grid & Bootstrap Grid

1. CSS Grid

Explanation:

CSS Grid is a layout system in CSS that allows you to arrange content in rows and columns. It's powerful for creating responsive web pages without using external libraries.

Key Properties:

- `display: grid`
- `grid-template-columns`
- `grid-template-rows`
- `gap`

Code Example:

```
1 <style>
2   .grid-container {
3     display: grid;
4     grid-template-columns: auto auto auto;
5     gap: 10px;
6     background-color: #f0f0f0;
7     padding: 10px;
8   }
9   .grid-item {
10    background-color: #76c7c0;
11    padding: 20px;
12    text-align: center;
13  }
14 </style>
15
16 <div class="grid-container">
17   <div class="grid-item">Box 1</div>
18   <div class="grid-item">Box 2</div>
19   <div class="grid-item">Box 3</div>
20 </div>
21
```

Box 1

Box 2

Box 3

2. Bootstrap Grid

Explanation:

Bootstrap's grid system uses a series of containers, rows, and columns to layout and align content. It's built with flexbox and is fully responsive. It helps make websites responsive and mobile-friendly easily.

How it Works:

- Rows and columns are used inside containers.
- The grid system is responsive with breakpoints like col-md-6, col-sm-12, etc.

Code Example:

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <style>
5      .flex {
6        display: flex;
7        gap: 10px;
8      }
9      .box {
10       flex: 1;
11       background: #4caf50;
12       color: white;
13       padding: 20px;
14       text-align: center;
15     }
16   </style>
17 </head>
18 <body>
19
20   <h3>Flexbox Layout</h3>
21
22   <div class="flex">
23     <div class="box">Box 1</div>
24     <div class="box">Box 2</div>
25     <div class="box">Box 3</div>
26   </div>
27
28 </body>
29 </html>
30 |
```

Flexbox Layout

Box 1

Box 2

Box 3