COURSE_NAME: WEB DEVELOPMENT
COURSE_INSTRUCTOR: ABDULLAH MAHMOOD

"CSS MEDIA QUERIES"

CSS media queries are a core feature of responsive web design, allowing you to apply different styles to your website depending on the device characteristics like screen size, resolution, orientation, and more. The main role of CSS media queries is to create responsive designs that adapt to different devices, improving the user experience across a variety of screen sizes.

Key Concepts

1. **Breakpoints:** Specific screen widths at which the layout changes.
2. **Viewport Width:** The width of the screen or browser window.
3. **Orientation:** The screen's orientation, either landscape or portrait.

HTML CODE

```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>Responsive Design with Media Queries</title>
7       <link rel="stylesheet" href="styles.css">
8   </head>
9   <body>
10      <header>
11          <h1>Welcome to My Responsive Site</h1>
12      </header>
13      <div class="container">
14          <aside class="sidebar">
15              <h2>Sidebar</h2>
16              <p>This is the sidebar content.</p>
17          </aside>
18          <main class="content">
19              <h2>Main Content</h2>
20              <p>This is the main content area.</p>
21          </main>
22      </div>
23      <footer>
24          <p>&copy; 2024 My Responsive Site</p>
25      </footer>
26  </body>
27  </html>
```

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```css
1   /* Base styles for all screens */
2   body {
3       font-family: Arial, sans-serif;
4       margin: 0;
5       padding: 0;
6       line-height: 0;
7   }
8
9   header, footer {
10      background-color: ☐#333;
11      color: ■#fff;
12      text-align: center;
13      padding: 1em 0;
14  }
15
16  .container {
17      display: block;
18      padding: 10px;
19  }
20
21  .sidebar, .content {
22      padding: 1px;
23  }
24
```

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```css
25    /* Media Query for screens wider than 768px */
26    @media (min-width: 768px)
27    {
28        .container {
29            display: flex;
30            flex-direction: row;
31        }
32
33        .sidebar {
34            width: 30%;
35            background-color: #f4f4f4;
36        }
37
38        .content {
39            width: 70%;
40        }
41    }
42
43    /* Media Query for screens wider than 1200px */
44    @media (min-width: 1200px)
45    {
46        body {
47            font-size: 18px;
48        }
49
50        .sidebar {
51            width: 25%;
52        }
53
54        .content {
55            width: 75%;
56        }
57    }
```