

Module 3 – Mernstack – CSS and CSS

1) CSS Selectors & Styling

Lab Assignment:

Task: Style the contact form (created in the HTML Forms lab) using external CSS.

The following should be implemented:

- Change the background color of the form.
- Add padding and margins to form fields.
- Style the submit button with a hover effect.
- Use class selectors for styling common elements and ID selectors for unique elements.

Ans:

Index.html

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Form</title>

    <link rel="stylesheet" href="style.css" />

  </head>

  <body>

    <h1 id="form-title">Contact Us</h1>

    <form action="" method="post" id="contactForm">

      <label for="name" id="label">Name : </label><br />

      <input type="text" id="name" placeholder="Enter name" required />

      <br />

      <br />

    </form>

  </body>

</html>
```

```
<label for="email">Email : </label><br />
<input type="email" id="email" placeholder="abc@gmail.com" required />
<br />
<br />
<label for="email">Email : </label><br />
<input type="email" id="email" placeholder="abc@gmail.com" required />
<br />
<br />

<label for="message">Message : </label><br />
<textarea name="" id="message" required rows="5" cols="50"></textarea>
<br />
<br />

<input type="submit" value="Send Message" class="submit-btn" />
</form>
</body>
</html>
```

style.css

```
* {
margin: 0;
padding: 0;
}
```

```
body {
padding: 10px 500px;
```

```
}
```

```
#form-title {  
    margin-bottom: 10px;  
    margin-left: 130px;  
}
```

```
#contactForm {  
    background-color: rgb(240, 227, 227);  
    width: 400px;  
    padding: 15px;  
}
```

```
input {  
    width: 90%;  
    padding: 8px;  
    margin-bottom: 10px;  
}
```

```
.submit-btn {  
    background-color: rgb(247, 203, 203);  
    padding: 8px 12px;  
    border: none;  
    width: 40%;  
    margin-left: 120px;  
}
```

```
.submit-btn:hover {
```

```
background-color: rgb(242, 186, 186);  
}
```

2) CSS Box Model

Lab Assignment

- Task: Create a profile card layout using the box model. The profile card should include:
 - A profile picture.
 - The user's name and bio.
 - A button to "Follow" the user.

Additional Requirements:

- Add padding and borders to the elements.
- Ensure the layout is clean and centered on the page using CSS margins.
- Use the box-sizing property to demonstrate both content-box and border-box on different elements.

Ans:

idCard.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
<title>ID Card</title>
```

```
<link rel="stylesheet" href="idCardStyle.css" />
```

```
</head>
```

```
<body>
```

```
<div class="card">
```

```

  <h2>Dhruvi Panjari</h2>
  <p class="bio">Web Developer & Designing</p>
  <button>Follow</button>
</div>
</body>
</html>
```

idCardStyle.css

```
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  /* background-color: #f2f2f2;
  background-color: #e6cece; */
  background: linear-gradient(#f2f2f2, #e6cece 80%);
}

.card {
```

```
width: 300px;
padding: 20px;
border: 2px solid #ccc;
border-color: white;
text-align: center;
border-radius: 10px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

```
#picture {
width: 200px;
border-radius: 50%;
margin-bottom: 15px;
box-sizing: content-box;
}
```

```
h2 {
font-size: 30px;
margin: 10px 0 5px 0;
}
```

```
.bio {
font-size: 15px;
padding: 5px;
border: 1px dashed #aaa;
box-sizing: border-box;
}
```

```
button {  
    margin-top: 18px;  
    padding: 10px 20px;  
    border: none;  
    background-color: #ab1465;  
    color: white;  
    cursor: pointer;  
    border-radius: 5px;  
}
```

```
button:hover {  
    background-color: #810246;  
}
```

3)CSS Flexbox

Lab Assignment

- Task: Create a simple webpage layout using Flexbox. The layout should include:
- A header.
- A sidebar on the left.
- A main content area in the center.
- A footer.

Additional Requirements:

- Use Flexbox to position and align the elements.
- Apply different justify-content and align-items properties to observe their effects.
- Ensure the layout is responsive, adjusting for smaller screens.

Ans :

Index.html

```
<!DOCTYPE html>
```

```
<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />

  <title>Flex Box</title>


  <link rel="stylesheet" href="style.css" />

</head>

<body>

  <header>Header</header>


  <div class="container">

    <aside>Side bar</aside>

    <main>Main Content</main>

  </div>


  <footer>Footer</footer>

</body>

</html>
```

Style.css

```
* {

  margin: 0;

  padding: 0;

  box-sizing: border-box;

}
```

header,


```
footer {  
  background: #333;  
  color: white;  
  text-align: center;  
  padding: 10px;  
}
```

```
.container {  
  display: flex;  
  flex-direction: row;  
  justify-content: center;  
  align-items: center;  
}
```

```
aside {  
  width: 25%;  
  background: #ccc;  
  padding: 10px;  
  text-align: center;  
  height: 650px;  
}
```

```
main {  
  width: 75%;  
  background: #eee;  
  padding: 10px;  
  text-align: center;  
  height: 652px;
```

```
}
```

```
@media (max-width: 600px) {
```

```
  .container {
```

```
    flex-direction: column;
```

```
  }
```

```
  aside,
```

```
  main {
```

```
    width: 100%;
```

```
  }
```

```
}
```

4)CSS Grid

Lab Assignment

- Task: Create a 3x3 grid of product cards using CSS Grid.

Each card should contain:

- A product image.
- A product title.
- A price.

Additional Requirements:

- Use grid-template-columns to create the grid layout.
- Use grid-gap to add spacing between the grid items.
- Apply hover effects to each card for better interactivity.

Ans:

Index.html

```
<!DOCTYPE html>
```

```
<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />

  <title>CSS Grid</title>

  <link rel="stylesheet" href="style.css" />

</head>

<body>

  <div class="container">

    <div class="box">

      

      <p class="prod-name">Ice-creame</p>

      <p class="prod-price">$200</p>

    </div>

    <div class="box">

      

      <p class="prod-name">Ice-creame</p>

      <p class="prod-price">$200</p>

    </div>

    <div class="box">

      

  <p class="prod-name">Ice-creame</p>

  <p class="prod-price">$200</p>

</div>

<div class="box">

  

  <p class="prod-name">Ice-creame</p>

  <p class="prod-price">$200</p>

</div>

<div class="box">

  

  <p class="prod-name">Ice-creame</p>

  <p class="prod-price">$200</p>
```

```
</div>

<div class="box">

  

  <p class="prod-name">Ice-creame</p>

  <p class="prod-price">$200</p>

</div>

<div class="box">

  

  <p class="prod-name">Ice-creame</p>

  <p class="prod-price">$200</p>

</div>

<div class="box">

  

  <p class="prod-name">Ice-creame</p>

  <p class="prod-price">$200</p>

</div>

</div>

</body>

</html>
```

Style.css

```
* {  
  margin: 10;  
  padding: 0;  
  box-sizing: border-box;  
}
```

```
.container {  
  display: grid;  
  grid-template-columns: repeat(3, 1fr);  
  gap: 20px;  
  background-color: rgb(201, 207, 211);  
  max-width: 850px;  
  padding: 25px;  
}
```

```
.box {  
  background-color: aliceblue;  
  border: 1px solid #000;  
  width: 250px;  
  border-radius: 10px;  
  overflow: hidden;  
  box-shadow: 0px 0px 10px gray;  
}
```

```
.box:hover {  
  transform: translateY(-10px);
```

```
    transition: 0.5s;
}
```

```
img{
    width: 250px;
}
```

```
p{
    padding: 10px;
    text-align: center;
}
```

```
.prod-name {
    border: 2px dashed rgb(2, 0, 46);
    margin: 20px;
}
```

```
.prod-price {
    border: 2px dashed rgb(8, 1, 20);
    margin: 0 50px 10px 50px;
}
```

5)Responsive Web Design with Media Queries

Lab Assignment

- Task: Build a responsive webpage that includes:
- A navigation bar.
- A content section with two columns.
- A footer.

Additional Requirements:

- Use media queries to make the webpage responsive for mobile devices.
- On smaller screens (below 768px), stack the columns vertically.

- Adjust the font sizes and padding to improve readability on mobile

Ans:

Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Responsive web page with Media Query</title>
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <div class="container">
      <nav>Navigation</nav>
      <div class="content">
        <div class="col1">Col 1</div>
        <div class="col2">Col 2</div>
      </div>
      <footer>Footer</footer>
    </div>
  </body>
</html>
```

Style.css

```
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

.container {
  background-color: aqua;
}

nav {
  background-color: black;
  color: white;
  padding: 20px;
```



```
text-align: center;
font-size: 20px;
}
```

```
.content{
  display: grid;
  grid-template-columns: 1fr 1fr;
  height: 610px;
}
```

```
.col1 {
  background-color: rgb(191, 191, 255);
  padding: 20px;
  font-size: 18px;
}
```

```
.col2 {
  background-color: rgb(211, 209, 212);
  padding: 20px;
  font-size: 18px;
}
```

```
footer {
  background-color: black;
  color: white;
  padding: 20px;
  text-align: center;
  font-size: 18px;
}
```

```
@media (max-width: 768px) {
  .content {
    grid-template-columns: 1fr;
  }
}
```

```
nav,
footer {
  font-size: 16px;
  padding: 15px;
}
```

```
.col1,  
.col2 {  
  font-size: 16px;  
  padding: 15px;  
}  
}
```

6)Typography and Web Fonts

Lab Assignment

- Task:

Create a blog post layout with the following:

- A title, subtitle, and body content.
- Use at least two different fonts (one for headings, one for body content).
- Style the text to be responsive and easy to read.

Additional Requirements:

- Use a custom font from Google Fonts.
- Adjust line-height, font-size, and spacing for improved readability.

Ans:

Index.html

```
<!DOCTYPE html>  
  
<html lang="en">  
  
  <head>  
  
    <meta charset="UTF-8" />  
  
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />  
  
    <title>Blog Post</title>  
  
    <link rel="stylesheet" href="style.css" />  
  
  </head>  
  
  <body>  
  
    <h1>Blog Post</h1>
```

```
<form action="" method="">

<label for="title">Blog Title</label>

<input type="text" placeholder="Enter blog title" required />


<label for="subtitle">Subtitle</label>

<input type="text" placeholder="Enter subtitle" required />


<label for="content">Blog Content</label>

<textarea

  name=""

  id=""

  placeholder="Write your blog content here..."

  cols="20"

  rows="5"

></textarea>


<button type="submit">Post Blog</button>

</form>

</body>

</html>
```

Style.css

```
@import
  url("https://fonts.googleapis.com/css2?family=Libertinus+Sans:ital,wght
  @0,400;0,700;1,400&display=swap");


* {

margin: 0;

padding: 0;
```

```
    box-sizing: border-box;
}
```

```
body {
    /* padding: 20px; */
    margin: 50px;
    background-color: aliceblue;
    font-family: "Libertinus Sans", sans-serif;
    font-weight: 400;
    font-style: normal;
}
```

```
h1 {
    color: #0056b3;
    font-family: "Nata Sans", sans-serif;
    font-weight: 900;
    text-align: center;
    margin-bottom: 20px;
}
```

```
form {
    max-width: 600px;
    background: #fff;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    margin: auto;
    padding: 20px;
}
```

```
label {  
    display: block;  
    margin-top: 20px;  
    font-weight: 600;  
}
```

```
input[type="text"],  
textarea {  
    width: 100%;  
    padding: 10px;  
    margin-top: 8px;  
    border: 1px solid #ccc;  
    border-radius: 4px;  
}
```

```
textarea {  
    height: 150px;  
}
```

```
button {  
    margin-top: 20px;  
    padding: 10px 20px;  
    background-color: #007bff;  
    border: none;  
    color: white;  
    font-size: 16px;  
    border-radius: 4px;
```

```
    cursor: pointer;
}

button:hover{
    background-color: #0056b3;
}
```