

# WEEK 1: FRONT-END BASICS

## EXERCISE 2 & MINI PROJECT 2

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**Class:** Software Engineering Conversion Bootcamp #9

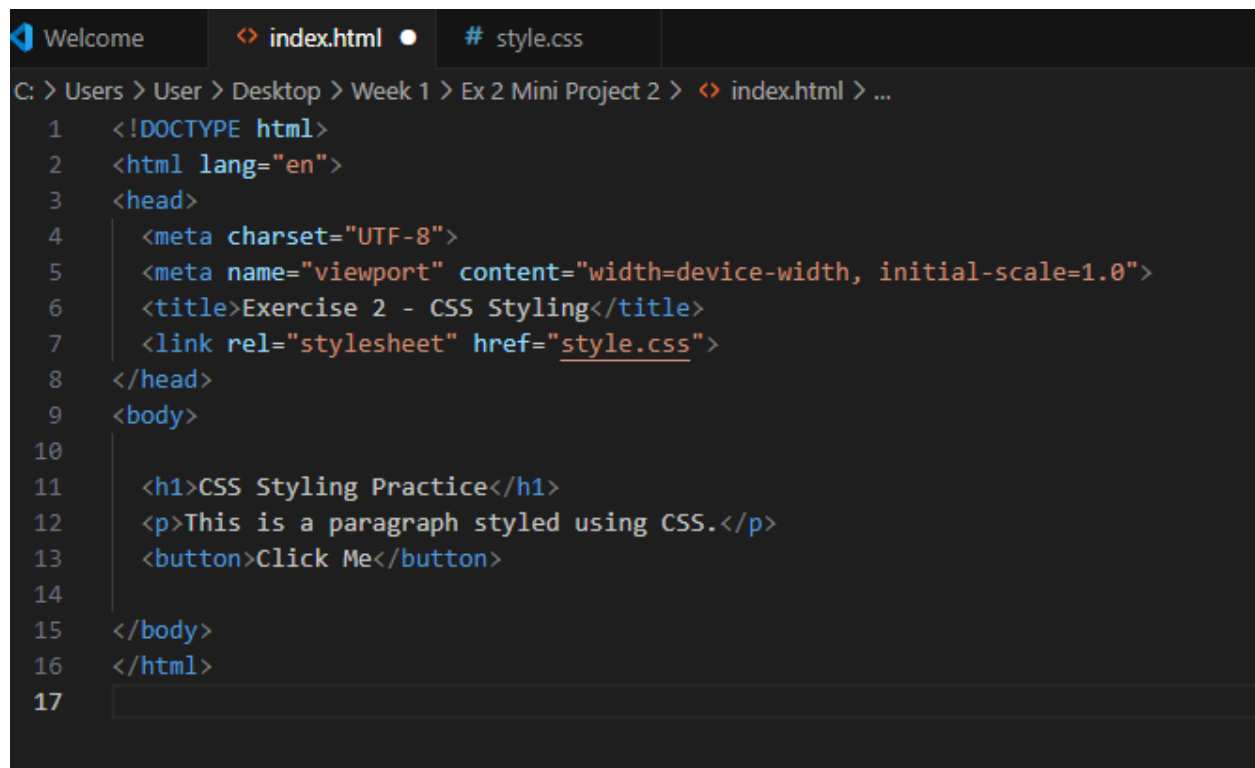
**Trainer:** Mr Sabastine

### EXERCISE 2: CSS Styling Practice

Objective is to learn how to apply basic CSS to HTML by:

1. Changing the fonts
2. Adding colours
3. Styling the layout

A separate CSS file is linked to HTML using <link> tag.



```
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>Exercise 2 - CSS Styling</title>
7   <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10
11   <h1>CSS Styling Practice</h1>
12   <p>This is a paragraph styled using CSS.</p>
13   <button>Click Me</button>
14
15 </body>
16 </html>
17
```

HTML without Styling by CSS:

---

# CSS Styling Practice

This is a paragraph styled using CSS.

Click Me

In style.css:

```
Welcome  index.html  # style.css  X
> Users > User > Desktop > Week 1 > Ex 2 Mini Project 2 > # style.css > ...
1  body {
2      background-color: #f0f4f8;
3      font-family: 'Segoe UI', sans-serif;
4      padding: 40px;
5      text-align: center;
6  }
7
8  h1 {
9      color: #333;
10     font-size: 2.5em;
11     margin-bottom: 10px;
12 }
13
14 p {
15     color: #555;
16     font-size: 1.2em;
17 }
18
19 button {
20     background-color: #007BFF;
21     color: white;
22     border: none;
23     padding: 12px 20px;
24     font-size: 1em;
25     border-radius: 5px;
26     cursor: pointer;
27     margin-top: 20px;
28     transition: background-color 0.3s ease;
29 }
30
31 button:hover {
32     background-color: #0056b3;
33 }
34
```

The CSS styles includes:

1) **Body styling**

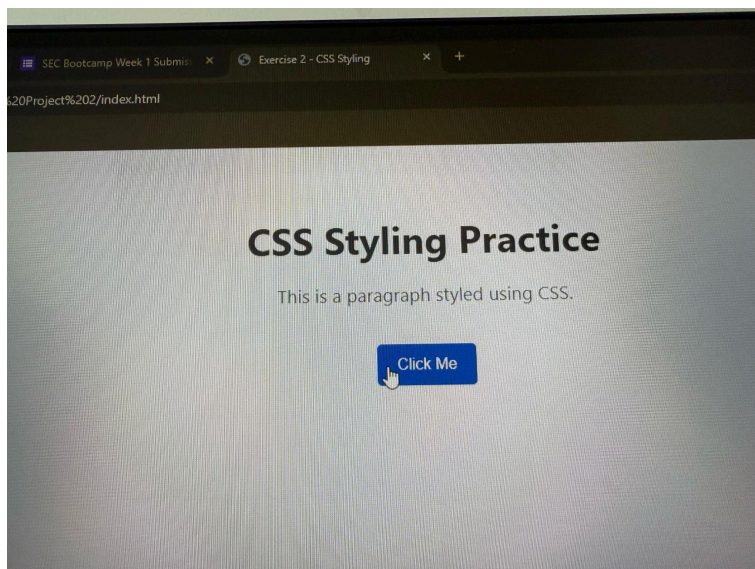
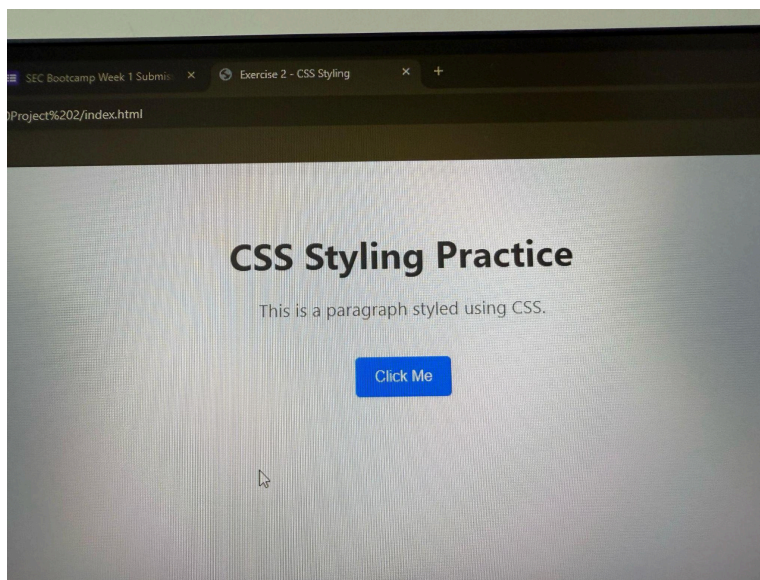
The background color was set to a soft blueish-grey using background-color, changed the font using font-family and centered everything using text-align: center. Also added padding to create breathing space around the content.

2) **Heading & Paragraph**

The heading <h1>, was styled to be larger and darker. While the paragraph <p> was lighter in color with a readable font size.

3) **Button Styling**

Created a blue button with white text, rounded corners and padding to make it look clickable. Apart from that a hover was added so that the button smoothly changes color when the mouse moves over it.

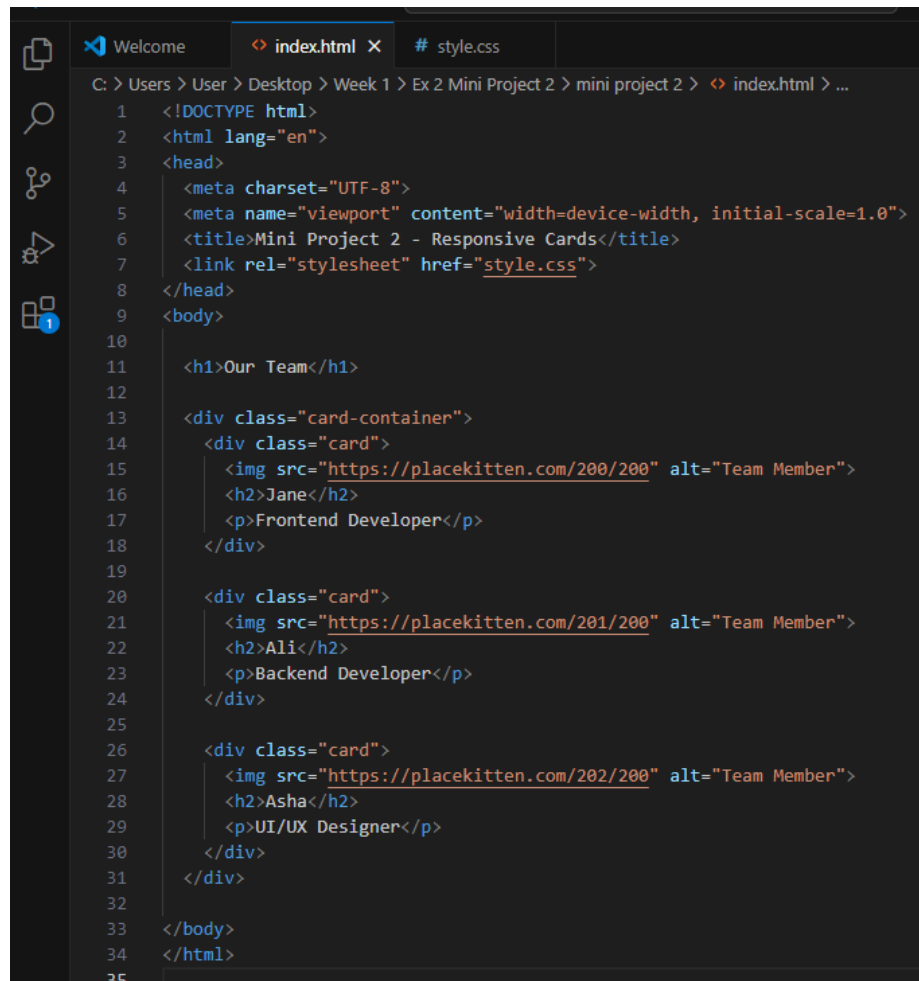


## MINI PROJECT 2: Responsive Layout with CSS Flexbox

Objective of this mini project is to create responsive card layout using:

- 1) **HTML** for the structure,
- 2) **CSS Flexbox** for the layout  
Flexbox used to arrange cards side by side in a row which makes it easier to align the items neatly and easy to control spacing between them compared by using manual positioning or float.
- 3) **Media query** for the screen sizing  
When the screen becomes smaller, eg: on a mobile phone media query used to change the layout so that cards stack vertically instead of staying in a row. Different CSS rules can be applied based on the screen size. Improving the user experiences on different form of devices.

HTML Boilerplate:


A screenshot of a code editor with a dark theme. The editor has three tabs at the top: 'Welcome', 'index.html X', and '# style.css'. The 'index.html' tab is active, showing the following HTML code:

```
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>Mini Project 2 - Responsive Cards</title>
7   <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10
11   <h1>Our Team</h1>
12
13   <div class="card-container">
14     <div class="card">
15       
16       <h2>Jane</h2>
17       <p>Frontend Developer</p>
18     </div>
19
20     <div class="card">
21       
22       <h2>Ali</h2>
23       <p>Backend Developer</p>
24     </div>
25
26     <div class="card">
27       
28       <h2>Asha</h2>
29       <p>UI/UX Designer</p>
30     </div>
31   </div>
32
33 </body>
34 </html>
35
```

HTML without CSS:


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## Our Team

 Team Member


**Jane**

Frontend Developer

 Team Member

**Ali**

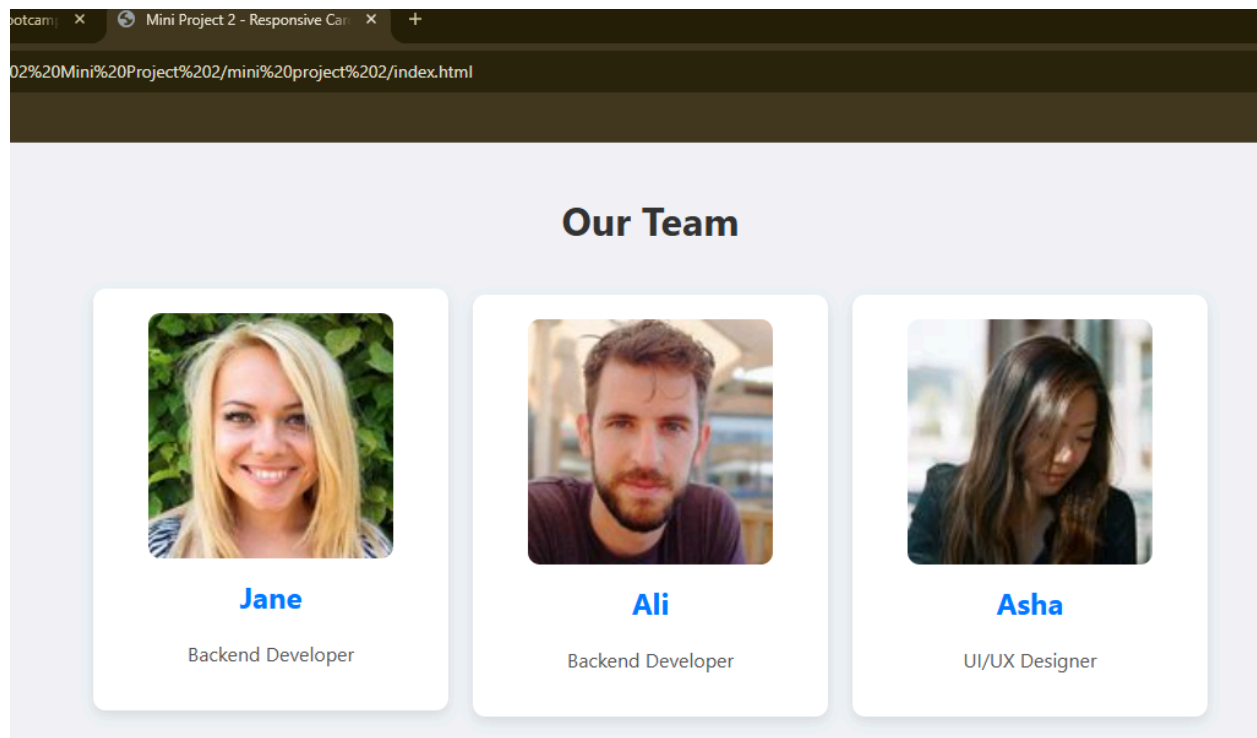
Backend Developer

 Team Member

**Asha**

UI/UX Designer

HTML with CSS Flexbox and media query:



Users > User > Desktop > Week 1 > Ex 2 Mini Project 2 > mini-project-2

```
body {
  font-family: 'Segoe UI', sans-serif;
  margin: 0;
  padding: 20px;
  background-color: #f0f4f8;
  text-align: center;
}

h1 {
  margin-bottom: 40px;
  color: #333;
}

.card-container {
  display: flex;
  justify-content: center;
  gap: 20px;
  flex-wrap: wrap;
}

.card {
  background-color: white;
  border-radius: 10px;
  box-shadow: 0 4px 10px #0000000a;
  padding: 20px;
  width: 250px;
  transition: transform 0.3s ease;
}

.card:hover {
  transform: translateY(-5px);
}

.card img {
  width: 100%;
  max-width: 200px;
  display: block;
  margin: 0 auto;
  border-radius: 10px;
}

.card h2 {
  margin-top: 15px;
  color: #007bff;
}

.card p {
```

```
.card p {
  color: #555;
  margin-top: 5px;
}
```

Media query to make the layout responsive on smaller screens:

```
}  
/* === RESPONSIVE STYLING FOR SMALL SCREENS === */  
  
@media (max-width: 768px) {  
  .card-container {  
    flex-direction: column;  
    align-items: center;  
  }  
  
  .card {  
    width: 80%;  
    margin-bottom: 20px;  
  }  
}
```

This block only activates when the screen width is 768px or smaller, on mobile  
It stacks the cards vertically and adjusts the card width so the content fits well.