

Day 7

Today's session was focused on Flexbox, one of the most powerful tools in modern CSS layout design. We learned how Flexbox helps in building flexible, responsive, and aligned page sections, particularly useful for headers, navbars, feature sections, and footers. We began refactoring parts of our landing page using Flexbox to improve responsiveness and alignment.

1. What is Flexbox?

- A CSS layout model used to align and distribute space among items in a container.
- Best for 1D
- Much simpler than floats or manual positioning.

2. Implementing Flexbox in the Landing Page:

Header Layout (Horizontal Nav):

```
header {  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
  padding: 20px;  
}
```

Hero Section (Side-by-Side Text + Image):

```
.hero {  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
  gap: 30px;  
}
```

Responsive Navigation Wrap:

```
nav ul {  
  display: flex;  
  flex-wrap: wrap;  
  gap: 20px;  
}
```

Summary:

Flexbox has completely changed how I approach layout design. Compared to using floats or position properties, Flexbox provides cleaner, simpler code with better responsiveness. It was satisfying to see how quickly I could redesign a section with Flexbox to look good on both desktop and mobile.