**31st Day Internship Report**

Date: 10 July 2025

**Topic Covered:**

Flexbox in CSS

Media Queries in CSS

**1. Flexbox in CSS**

We learned about the Flexible Box Layout Module (Flexbox), which is a CSS3 layout model designed to align and distribute space among items in a container, even when their size is unknown or dynamic.

**Key Concepts Covered:**

display: flex;

Main axis vs Cross axis

Properties for the flex container:

flex-direction

justify-content

align-items

flex-wrap

Properties for the flex items:

flex-grow

flex-shrink

flex-basis

align-self

Hands-on Practice:

Created multiple layouts using Flexbox to arrange elements horizontally and vertically. Built a navigation bar and card layouts for better understanding.

**2. Media Queries in CSS**

Media Queries help make a website responsive by applying different styles depending on the screen size or device.

**Key Concepts Covered:**

@media rule syntax

Breakpoints for different screen widths

Combining media queries with Flexbox for adaptive layouts

Examples:

@media (max-width: 768px) {

.container {

flex-direction: column;

}

}

**Hands-on Practice:**

We designed a responsive webpage that adapts its layout on mobile, tablet, and desktop devices using media queries.

**Conclusion**

On the 31st day of our internship, we strengthened our understanding of responsive web design using Flexbox and Media Queries. These tools are essential for creating flexible and user-friendly web layouts that work across various screen sizes and devices.