



Internship Report ProSensia

Week 2 – Day 2

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Internship Program: Frontend Development

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Topics Covered

1. CSS Selectors

Selectors are used to target HTML elements for styling. Today, I learned and practiced different types of selectors including:

- **Universal Selector (*)**: Targets all elements.
Example: `* { margin: 0; padding: 0; }`
- **Element Selector**: Targets elements by tag name.
Example: `p { font-size: 16px; }`
- **Class Selector (.className)**: Targets elements by class.
Example: `.btn { background-color: blue; }`
- **ID Selector (#id)**: Targets a specific element by ID.
Example: `#header { font-weight: bold; }`
- **Group Selector**: Targets multiple elements.
Example: `h1, h2, h3 { font-family: Arial; }`
- **Descendant & Child Selectors**: Targets nested elements.
Example: `nav a { color: white; }`

2. CSS Colors

Understanding how to apply colors using different formats:

- **Named Colors** (e.g., red, blue, green)
- **Hex Codes** (e.g., #ff0000 for red)
- **RGB and RGBA** (e.g., rgb(255, 0, 0) or rgba(255, 0, 0, 0.5))

- **HSL and HSLA** (e.g., `hsl(120, 100%, 50%)`)

Also practiced creating:

- Background gradients
- Transparent overlays using `rgba()`
- Custom color themes for buttons and headers

3. CSS Units

Learned about different units used in styling elements:

- **Absolute Units:** px, pt, cm, in
(Fixed size, not responsive)
- **Relative Units:** em, rem, %, vw, vh
(Scales based on parent or viewport)

Examples:

- `font-size: 1.2em;` (relative to parent font size)
- `width: 80%;` (relative to container)

4. Typography in CSS

Typography improves readability and design. I explored:

- **Font Families:** `font-family: 'Arial', sans-serif;`
- **Font Size & Weight:** `font-size: 20px;`, `font-weight: bold;`
- **Line Height:** `line-height: 1.5;`
- **Text Alignment:** `text-align: center;`
- **Letter & Word Spacing:** `letter-spacing: 1px;`

Also explored:

- Using **Google Fonts** in projects
- Responsive typography using rem and media queries



Practical Tasks Completed

- Created a test HTML page styled using different selectors
 - Applied color themes using hex and RGBA formats
 - Used em and % units for scalable layout
 - Designed a heading and paragraph section demonstrating typography features
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Learning Outcome

By the end of Day 2, I feel more confident in selecting and styling HTML elements effectively. Understanding typography and responsive units will help me build more user-friendly and accessible web interfaces.