Day 3 – Front-End Development Progress Report

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1. Reminder of Progress So Far

- **Day 1 & 2**: Learned HTML fundamentals, forms, tables, lists, media, and applied first steps in CSS (colors, spacing, hover effects, icons).
- **Day 3 Objective**: Apply **clean CSS styling**, organize sections with semantic tags (main, section, article, aside, footer), and experiment with **CSS variables, shadows, outlines, sprites, and media queries**.

2. Work Completed Today

a) HTML Structure Enhancements

- Used **semantic elements**: <main>, <section>, <article>, <aside>, and <footer> for professional structure.
- Designed a **navigation bar** with logo + menu (
).
- Added a **Box section** with multiple items (phone, landscape, laptop) displayed with images.
- Practiced **image sprites** with a sprite.png demo.
- Expanded **content sections**: staff list, student table, article with inline image, and aside box.
- Completed with a **footer** containing multiple links.

b) CSS Styling Basics Practiced

1. **CSS Variables** (:root)
   - Defined global variables (--color, --abc, --defpad, --defborder) to reuse colors, padding, and borders.
   - Learned the difference between **global** and **local variables**.
2. **Universal Reset**
   - Used * { margin: 0; padding: 0; box-sizing: border-box; } to remove browser defaults.
3. **Navigation Bar Styling**
   - Black sticky navbar (position: sticky) that stays at top.
   - Used flexbox for alignment (justify-content: space-between).
   - Applied hover and active states with background color changes.
4. **Headings & Text Styling**
   - Custom h2 with **box-shadow, background-color, text-align**.
   - Practiced text-shadow on paragraphs.

o   Styled p with different **font families, background colors, and weights**.
5. **Borders, Outlines & Shadows**
    o   Used outline and outline-offset for emphasis on Objective section.
    o   Practiced **inset box-shadow** in headings, article, and aside.
6. **Tables**
    o   Styled with border-collapse, hover effects, alternate row colors (nth-child(even)), and bold captions.
7. **Lists**
    o   Centered ordered list (ol), styled list items with bold white text.
8. **Sections (Article & Aside)**
    o   Applied **min-height / min-width** for responsive scaling.
    o   Added borders, overflow handling (overflow: auto), and shadows.
9. **Sprites**
    o   Practiced **CSS sprite technique** using background-position.
10. **Footer Styling**
    o   Black background with white text, aligned links, and flex styling.
11. **Responsive Design (Media Query)**
    o   Used @media only screen and (max-width:450px) → background turns red on small screens.

3. Key Learnings Today

- How to declare and use **CSS variables** effectively.
- Difference between **padding, margin, border, outline**.
- Applying **hover, active, and shadow effects** for interactivity.
- How to style **tables and lists** in a professional way.
- Using **CSS sprites** to optimize images.
- Introduction to **responsive design** with media queries.

4. Next Steps (Day 4 Plan)

- Learn **inline-block vs. block vs. inline** display modes.
- Start using **Flexbox layouts** more for images and content sections.
- Add **transition and simple animations**.
- Enhance responsive design with multiple breakpoints (tablet, mobile).

Conclusion:
Day 3 marks a big step forward moved from just HTML content to **professional CSS styling**. Practiced CSS variables, shadows, outlines, sprites, hover effects, and media queries, which form the **foundation of real-world front-end design**.