DAY 1 DOCUMENTATION

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Internship Program: Batch-4
Date: 17-12-2025

DAY 1: TUESDAY – JAVASCRIPT & WEB FOUNDATIONS

1. Web Fundamentals
Topics Covered: HTML5 document structure, CSS3 styling concepts, DOM basics including element selection using document.getElementById().

Hands-on Activity: Built a static webpage using HTML and CSS. Applied styling for layout, fonts, alignment, background colors, and practiced accessing DOM elements using JavaScript.

Example Files Used: Basic HTML structure file, internal CSS styling examples.

Deliverable: A fully structured and styled HTML/CSS webpage.

2. JavaScript Basics
Topics Covered: JavaScript syntax, variables using let, conditional statements (if, else if, else), and basic logic building.

Hands-on Activity: Implemented five JavaScript programs including largest of three numbers using if-else, conditional checks, and console output using console.log().

Example Files Used: JavaScript programs demonstrating variables and conditional logic.

Deliverable: JavaScript script files demonstrating basic programming concepts.

3. JavaScript Arrays & Objects
Topics Covered: Arrays and objects in JavaScript along with array methods map(), filter(), and reduce().

Hands-on Activity: Solved data-based exercises using arrays and objects and practiced transforming data using array methods.

Example Files Used: Array and object manipulation programs, data transformation examples.

Deliverable: JavaScript practice code related to arrays and objects.

4. Functions & Events
Topics Covered: JavaScript functions, function calls, and event handling concepts using onclick events.

Hands-on Activity: Created an interactive JavaScript user interface by connecting buttons to JavaScript functions using event handling.

Example Files Used: Event handling programs and interactive button click examples.

Deliverable: Event-driven user interface demonstrating interactivity.

5. Git & GitHub
Topics Covered: Git basics, repositories, commits, and pushing code to GitHub.

Hands-on Activity: Initialized a Git repository, added project files, committed changes, and pushed JavaScript code to GitHub.

Example Files Used: git and github.txt (Git vs GitHub comparison notes), JavaScript project files.

Deliverable: Live GitHub repository containing JavaScript projects.

6. Mini Project – JavaScript Counter App
Project Description: Developed a simple interactive web application that allows users to increment, decrement, and reset a counter value.

Technologies Used: HTML5, CSS3, JavaScript.

Key Concepts Applied: DOM manipulation, functions, event handling, and state management.

Example File Used: counterapp.html (complete HTML, CSS, and JavaScript implementation).

Deliverable: Fully functional Increment/Decrement Counter application.

Final Outcome of Day 1
By the end of Day 1, a strong foundation was established in HTML, CSS, JavaScript fundamentals, event-driven UI development, Git version control, and GitHub collaboration, along with successful completion of a JavaScript mini project.