

Week 1 Internship Report

Name: Akalya Ravichandran

Role: Frontend Developer Intern

Week: Week 1

Duration: Monday – Friday

1. Objective of the Week

The primary objective of Week 1 was to set up the development environment, understand fundamental web development concepts, and gain hands-on experience with Git, HTML, CSS, Tailwind CSS, JavaScript DOM manipulation, and basic tooling used in real-world frontend development.

2. Development Environment Setup

Tools Installed & Configured

- **VS Code:** Installed and configured with essential extensions (Prettier, ESLint, GitLens).
 - **Node.js:** Installed for running JavaScript tooling and package managers.
 - **pnpm:** Set up as the package manager for efficient dependency management.
 - **Git:** Installed and configured with GitHub account for version control.
-

3. Git Fundamentals

Concepts Learned

- Git clone
- Commit best practices
- Push and pull operations
- Pull Request (PR) workflow

Practical Work

- Cloned a repository from GitHub
 - Made commits with meaningful messages
 - Pushed changes to remote repository
 - Understood PR-based code review workflow
-

4. HTML5 Fundamentals

Topics Covered

- Semantic HTML elements (`header`, `nav`, `section`, `article`, `footer`)
- Forms and input elements
- Accessibility basics (labels, alt text, semantic structure)

Practice

- Created structured HTML pages using semantic tags
 - Built simple forms following accessibility best practices
-

5. CSS Fundamentals

Topics Covered

- CSS selectors and specificity
- Box model (margin, border, padding, content)
- Flexbox layout
- CSS Grid layout

Practice

- Implemented layouts using Flexbox
 - Styled pages with proper spacing and alignment
-

6. Tailwind CSS

Concepts Learned

- Utility-first approach
- Responsive design using breakpoints
- Tailwind configuration and customization

Practical Work

- Explored Tailwind documentation and playground
 - Built **2 responsive web pages** using Tailwind CSS
 - Implemented mobile-first responsive layouts
-

7. JavaScript for Web

Topics Covered

- DOM manipulation
- Event handling (click, input, submit)

Exercises Completed

- Selecting elements using JavaScript
 - Handling user interactions using event listeners
-

8. Browser DevTools

Skills Gained

- Inspecting HTML and CSS
 - Debugging JavaScript
 - Analyzing layout and responsiveness
-

9. Deliverables Summary

- Development environment fully set up
- Git workflow understood (branch, commit, PR)

- Two responsive pages built using Tailwind CSS
 - DOM manipulation exercises completed
-

10. Challenges Faced

- Understanding Git branching initially
 - Getting familiar with Tailwind utility classes
-

11. Learnings & Takeaways

- Importance of clean Git workflow
- Power of Tailwind CSS for UI development
- Strong foundation in HTML, CSS, and JavaScript basics