

Developer Manual

Project Goal

The purpose of this project is to demonstrate:

- Proper HTML structure
- Clean CSS organization
- Responsive layout using Flexbox
- Readable and maintainable code with comments

HTML Structure Overview

- `<!DOCTYPE html>` ensures HTML5 compatibility
- `<header>` contains the navigation bar
- `<nav>` holds the logo and menu links
- `` and `` organize navigation links semantically

The HTML is **semantic**, meaning each tag has a clear purpose.

CSS Architecture

Global Reset

```
*  
{  
    margin: 0;  
    padding: 0;  
    box-sizing: border-box;  
}
```

Ensures consistent rendering across browsers.

Layout System

- Flexbox is used for horizontal and vertical alignment.
- `justify-content` and `align-items` control spacing and centering.

Responsiveness

- Media query at `max-width: 768px`
- Layout switches from row to column
- Improves mobile usability

Key Design Decisions

- Sticky header for better navigation
- Neutral color palette for clarity

How to Extend the Project

- Add JavaScript for a hamburger menu
- Create reusable navbar components
- Convert into a template system
- Integrate with backend pages (PHP, React, etc.)

Coding Philosophy

This project follows these principles:

- Clarity over complexity
- Structure before styling
- Understanding before speed
- Consistency over motivation