

## 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
- `<ul>` and `<li>` 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