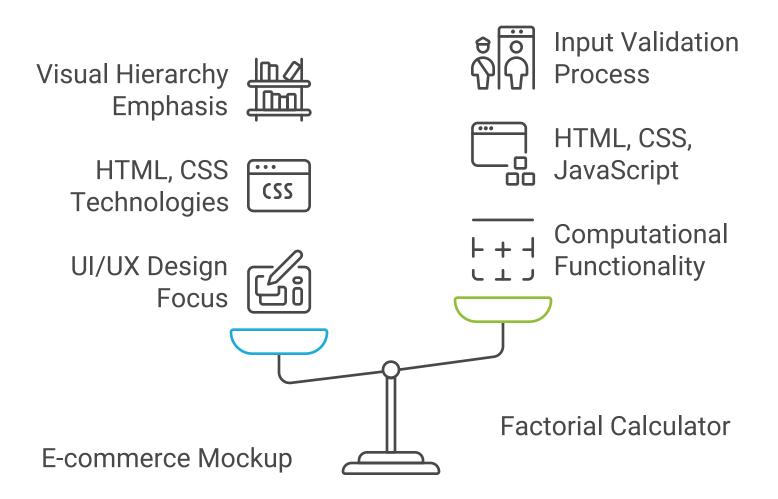
# Documentation For The E-Commerce and **Factorial Calculator**



Balancing Design and Functionality in Web Development

### 1. Project Overview:

This project creates two front-end components: an e-commerce product page mockup and a factorial calculator web application.

#### 2. E-commerce Product Page Mockup:

- Purpose: Visual representation of a product page, emphasizing layout and product information display. UI/UX focus.
- UI Elements:
  - Product Image
  - Product Title
  - Product Description
  - Price
  - "Add to Cart" Button

# • Styling & Responsiveness:

- Visually appealing design
- Responsive layout (desktop, tablet, mobile)
- Clear visual hierarchy
- Technologies: HTML, CSS
- Considerations: Image quality, readability, prominent call to action.

# 3. Factorial Calculator Web Application:

- Purpose: Calculate factorial of a number using iterative/recursive methods. Includes input validation.
- UI Elements:
  - Input Field (number)
  - Calculate Buttons (Iterative, Recursive)
  - Result Display (factorial value, method used)
- Functionality:
  - Input Validation (positive integer)
  - Iterative Factorial Calculation
  - Recursive Factorial Calculation
  - Result Display
- **Technologies:** HTML, CSS, JavaScript
- Input Validation: Type check (number), Positive Integer Check (>= 0).
- Testing:
  - Valid Inputs (positive integers, 0)
  - Invalid Inputs (non-numeric, negative, floating-point)
  - Cross-Browser Compatibility
  - Edge Cases (large numbers)
- 4. General Considerations:
  - Accessibility: Adhere to accessibility guidelines (WCAG).
  - **Performance:** Optimize JavaScript for larger factorial calculations.

• **Deployment:** Any web server supporting HTML, CSS, and JavaScript.

- Overall: Aim for clean, user-friendly interfaces for both components. Focus on clear presentation and intuitive interaction. Prioritize a positive user experience. Ensure thorough testing across different scenarios. This project is focused on front-end development and presentation. The calculator is for demonstration and learning purposes, not for production-level scientific calculations. Remember to comment the code for better maintainability and understanding. The design of both components should be simple and easy to understand.
- Consider using a CSS framework for faster development
- Use modern JavaScript syntax to be more compatible
- Use responsive meta tag to scale correctly in all devices
- All HTML elements must be valid.
- Provide descriptive error messages