**Software Requirements Specification (SRS)**

**LR Apparel E-commerce Web Application**

**1. Introduction**

**1.1 Purpose**

The purpose of this document is to outline the software requirements for the development of **LR Apparel**, an online e-commerce platform for apparel shopping. The platform provides users with a seamless experience for browsing, selecting, and purchasing men's and women's clothing.

**1.2 Scope**

The project will create a responsive, user-friendly web application that includes product browsing, an interactive shopping cart, and basic order processing. The scope includes:

* Home, Products, About Us, and Contact pages.
* Detailed product sections for men and women.
* A cart system with "Add to Cart" functionality and an "Order" button for order simulation.

**2. Overall Description**

**2.1 Product Perspective**

The web application will be developed as a standalone solution that is hosted online, offering users the ability to view and order apparel products.

**2.2 Product Features**

1. **Home Page**: Welcomes users with a brief overview and navigation links.
2. **Products Page**:
   * Separate sections for **Men's Apparel** and **Women's Apparel**.
   * Dropdown menu under "Products" to navigate directly to men's or women's sections.
   * Product images, names, prices, and "Add to Cart" buttons for each item.
3. **Cart Page**:
   * Displays selected items with details (name, price, quantity).
   * Updates item quantities and recalculates the total.
   * Provides "Clear Cart" and "Order" buttons.
4. **Order Simulation**:
   * Displays an order summary with a confirmation prompt.
   * Clears the cart after order confirmation.
5. **Navigation Bar**: Links to all main sections, including an updated cart count.

**3. Functional Requirements**

**3.1 User Interface Requirements**

* **Navigation Bar**:
  + A dropdown menu under "Products" with links to "Men's Apparel" and "Women's Apparel".
  + Cart link with a dynamic count of items.
* **Product Listing**:
  + Displays product details, images, and a button for adding to the cart.
* **Cart Page**:
  + Shows a list of items, quantities, total prices, and controls to update or clear the cart.
  + Includes an "Order" button that displays a confirmation dialog.

**3.2 Functional Requirements**

* **Add to Cart Functionality**:
  + JavaScript-based function to add items to localStorage and update the cart count.
* **Cart Display**:
  + JavaScript function to display items from localStorage, calculate totals, and handle quantity changes.
* **Order Button**:
  + Simulates placing an order by showing a summary and clearing the cart upon user confirmation.
* **Clear Cart Function**:
  + Clears all items from localStorage and updates the cart display.

**4. Non-functional Requirements**

**4.1 Performance Requirements**

* The web application must load within 3 seconds for an optimal user experience.
* Cart operations should be near-instantaneous (less than 500 ms).

**4.2 Usability Requirements**

* The interface must be intuitive and easy to navigate.
* Buttons and controls should have clear labels and hover effects for user feedback.

**4.3 Compatibility Requirements**

* The application should be compatible with modern web browsers (Chrome, Firefox, Safari, Edge).
* Responsive design to support mobile and tablet devices.

**5. System Requirements**

* **Client-Side Technologies**:
  + HTML5, CSS3, JavaScript
* **Images and Media**:
  + Hosted locally or via placeholder links.
* **Browser Storage**:
  + Utilizes localStorage for managing cart data.

**6. Future Enhancements**

* Integration with a backend service for user authentication and order management.
* Payment processing for real order placements.
* Detailed product pages with additional images and descriptions.
* Improved order history and user profile sections.