Software Requirements Specification (SRS)

Project: Clothing Brand E-Commerce Website
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1. Introduction

1.1 Purpose

The purpose of this document is to define the requirements for the Clothing Brand Website. The website will allow customers to browse clothing items, view product details, add items to cart, and make payments through an online payment gateway.

1.2 Scope

The system will be a medium-scale e-commerce platform for a clothing brand.
It will include:

- A product catalogue page with a cover image and list of limited products.

- A product details page for each item.

- A shopping cart (popup/overlay style).

- Checkout and payment page.

- Navigation to dedicated product categories (Oversized T-shirts, Trousers).

- An About Us page.

Target Users:

- Customers (view, add to cart, checkout).

- Admin (future extension: product management, not included in this phase).

1.3 Definitions, Acronyms, Abbreviations

- **Cart:** Temporary list of products selected by the customer.

- **Checkout:** Process of confirming the order and making payment.

- **Payment Gateway:** Online service for handling payments (XPay/PayFast).

2. Overall Description

2.1 Product Perspective

The system is a standalone e-commerce website deployed on localhost for development and live for demonstration.

2.2 User Characteristics

- **Customers:** Basic computer literacy, familiar with browsing and online shopping.

- **Admin (developer/owner):** Technical knowledge to manage product listings.

2.3 Constraints

- Cart should be accessible as popup/overlay (not a separate page).

- Minimal About Us page.

- Payment limited to one integrated gateway (XPay/PayFast).

3. System Features

3.1 Product Catalogue Page

Description:

- Displays full-page cover image (model wearing clothing).

- Scroll down shows list of products (limited selection).

Requirements:

- Each product displayed as a container with:

  - Product image

  - Title

  - Short description

  - Price

  - Add to Cart option

- Navigation bar with links to:

  - About Us

  - Cart (popup/overlay)

  - Oversized T-shirts page

  - Trousers page

3.2 Product Details Page

Description:

- Clicking a product from catalogue opens a dedicated page.

Requirements:

- Contains:

- ○ Product image

- ○ Product title

- ○ Long description

- ○ Price

- ○ Add to Cart option

- ● (Future scope: reviews section, not included now).

3.3 Cart (Popup/Overlay)

Description:

- ● Cart appears as popup/overlay instead of separate page.

Requirements:

- ● Show all items added to cart with:

  - ○ Product name, image, price, and quantity.

- ● Functionalities:

  - ○ Increase/decrease quantity (+/-).

  - ○ Remove individual product.

  - ○ Empty cart (remove all items).

  - ○ Show total price.

  - ○ Proceed to Checkout button.

3.4 Checkout & Payment Page

Description:

- Secure checkout process for users to confirm order.

Requirements:

- Shows order summary (items, quantity, total cost).

- Allows user to enter payment details.

- Payment gateway integration (XPay/PayFast).

- Confirmation page after successful payment.

3.5 About Us Page

Description:

- Minimal static page with brand information.

Requirements:

- Contains brand introduction and contact info.

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4. Non-Functional Requirements (NFRs)

4.1 Performance

- Website should load each page within 2 seconds on standard internet connection.

- Cart updates (add/remove items) should be instantaneous.

4.2 Security

- Payment transactions must be encrypted using SSL.

- Customer data (passwords, emails) encrypted in database.

4.3 Usability

- Clean, minimal design, intuitive navigation.

- Cart popup should be smooth and non-intrusive.

4.4 Availability

- Live website should have 99% uptime (for client use).

4.5 Portability

- Website should be accessible on desktop and mobile browsers.

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5. Future Scope (Not in Current Phase)

- Product reviews and ratings.

- Admin panel for adding/editing products.

- Search and filter options for products.

- Discount coupons and offers.