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Software Requirement Specification

(Online Clothing Store)

1. Introduction

1.1 Purpose

This document outlines the requirements for developing an e-commerce platform for an online clothing store. The application aims to provide a user-friendly and engaging shopping experience for customers while offering efficient inventory management and order processing capabilities for the business.

1.2 Scope

The online clothing store will offer a wide range of apparel and accessories for men, women, and children. Customers can browse products, create accounts, place orders, and track shipments. The site will also feature sales promotions, personalised recommendations, and a secure payment gateway integration.

2. Overall Description

2.1 Product Features

User Registration and Authentication
Product Catalog and Search
Shopping Cart and Checkout
Order Management
Payment Gateway Integration
Customer Reviews and Ratings
Personalised Recommendations
Sales and Promotions
Admin Panel for Inventory and Order Management

3. System Features

3.1 User Registration and Authentication

Users can create accounts, log in, and manage their personal information securely.

3.2 Product Catalog and Search

Users can browse through categorised product listings with detailed descriptions, images, and pricing information. A search functionality allows users to find specific products.

3.3 Shopping Cart and Checkout

Users can add products to a virtual shopping cart, review their selections, and proceed to a secure checkout process.

3.4 Order Management

Users can view their order history, track shipments, and initiate returns or exchanges.

3.5 Payment Gateway Integration

A secure payment gateway will be integrated to facilitate online transactions using various payment methods.

3.6 Customer Reviews and Ratings

Users can submit reviews and ratings for products they have purchased, helping other customers make informed decisions.

3.7 Personalised Recommendations

Based on user browsing and purchase history, the site will provide personalised product recommendations.

3.8 Sales and Promotions

The site will feature ongoing sales, discounts, and promotional campaigns to attract and retain customers.

3.9 Admin Panel for Inventory and Order Management

An admin panel will allow authorised personnel to manage inventory levels, track orders, and generate reports.

4. External Interface Requirements

4.1 User Interfaces

Responsive and visually appealing web interfaces optimized for desktop and mobile devices.

4.2 Hardware Interfaces

Compatibility with various web browsers and devices.

4.3 Software Interfaces

Integration with payment gateways, shipping carriers, and inventory management systems.

5. Non-functional Requirements

5.1 Performance

Fast page load times and efficient server response to ensure a smooth shopping experience.

5.2 Security

Robust authentication mechanisms, data encryption, and secure communication protocols to protect user information and transactions.

5.3 Usability

Intuitive navigation, clear product information, and user-friendly checkout process to enhance the overall shopping experience.

5.4 Scalability

The system should be capable of handling increasing user traffic and product catalog growth without compromising performance.

6. Other Requirements

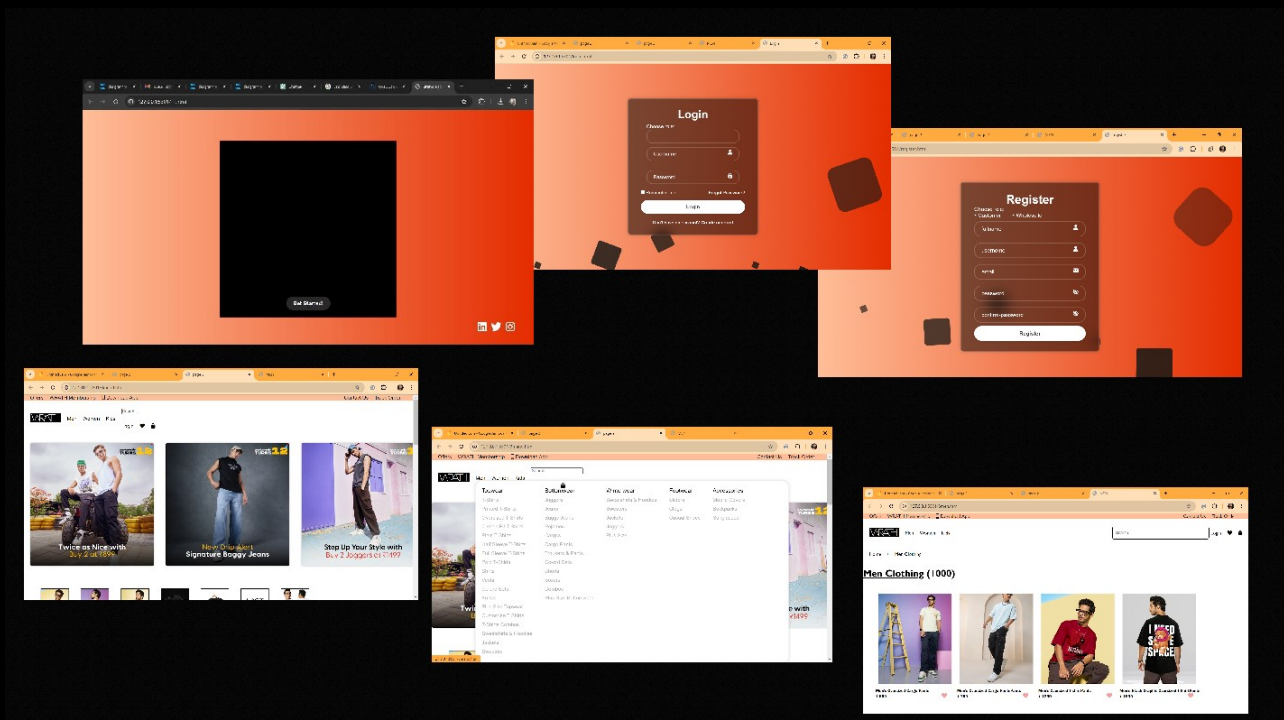
6.1 Legal and Regulatory

Compliance with applicable e-commerce laws, consumer protection regulations, and privacy policies.

6.2 Documentation

Comprehensive documentation for system installation, configuration, and maintenance procedures, as well as user guides and FAQs.

7. Interface



USE CASE DIAGRAM

