Software Requirement Specifications

<Online Jewelry Shop>

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Summary

The Online Jewelry Shop CMS is designed to empower jewelry businesses to showcase and manage their products online effectively. This CMS will provide features such as product management, secure transactions, customer management, and a customizable front end. The document outlines the requirements, objectives, and technologies to deliver a user-friendly and functional solution.

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Introduction

Purpose

The objective of this CMS is to provide a feature-rich platform for jewelry businesses to efficiently manage their online stores. This includes inventory management, customer engagement, and secure payment processing.

Scope

The project will include modules for:
- Admin: Product management, order handling, analytics.

- Customers: Browse products, place orders, view order history.
- Developers: Extend and customize the CMS as required.

Out of scope:
- Offline inventory management.
- Advanced AI-driven customer recommendations (future enhancement).

Product Perspective
This CMS integrates with WordPress, leveraging its extensibility through plugins and themes to enable dynamic functionality. It will offer:
- WooCommerce for product management.
- WPML for multilingual support.
- Secure payment gateways such as PayPal and Stripe.

User Characteristics
- Admin: Jewelry shop owners and managers with basic technical skills.
- Customers: General public, mobile-first users, global clientele.

Similar Apps and Systems
- Shopify: Comprehensive but costly for small businesses.
- Etsy: Market-oriented but lacks customization for individual stores.

Proposed Technologies
- WordPress
- WooCommerce
- Elementor for frontend customization
- MySQL for data storage
- Stripe/PayPal for payment processing

Requirements

Functional Requirements
1. Sign Up & Login
   - Users must register using email and password.
   - Admins can approve user accounts.

2. Product Management
   - Add/edit/remove products with attributes (name, price, images, stock).
   - Manage categories and tags.

3. Order Processing
   - Secure order placement.
   - Notifications for successful transactions.
   - Admin dashboard for order tracking.

4. Customer Interaction
  - Wishlist feature.
  - Product reviews and ratings.

5. Multilingual Support
  - Content translation with WPML.

Non-Functional Requirements

1. Security
  - Encrypted data storage.
  - Two-factor authentication for admins.

2. Performance
  - Ensure fast page loads (<3 seconds).
  - Optimize database queries for scalability.

3. User Interface
  - Responsive design compatible with mobile and desktop.

4. Accessibility
  - WAI-ARIA compliance for visually impaired users.

Use Cases and Flow of Processes

Use Case 1: User Registration
ID: UC001
Name: User Registration and Login
Actors: Customers, Admins
Description: Users register and log in to the system.
Basic Flow:
1. Customer submits registration form.
2. System validates inputs.
3. Account creation notification sent to the admin for approval.
4. Admin approves account.

Use Case 2: Product Management
ID: UC002
Name: Product Management
Actors: Admin
Description: Admins manage the inventory.
Basic Flow:
1. Admin logs in.
2. Navigates to the product dashboard.
3. Adds, edits, or deletes products.

Use Case 3: Order Processing

ID: UC003

Name: Order Processing

Actors: Customer, Admin

Description: Customers place orders, admins manage fulfillment.

Basic Flow:

1. Customer selects product and places an order.

2. System processes payment.

3. Order confirmation is sent to both customer and admin.

References

1. WooCommerce Documentation. *WooCommerce: The Most Customizable eCommerce Platform for Building Your Online Business*.

2. WPML Documentation.

3. Stripe API Documentation.