Software Requirement Specification (SRS) Of FashionHouse

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1. Introduction

1.1 Purpose

The primary purpose of the FashionHouse website is to provide an exceptional online shopping experience for fashion enthusiasts by offering a wide variety of clothing, accessories, and footwear for men, women, and children. FashionHouse aims to cater to diverse fashion tastes and preferences, ensuring that users have access to the latest trends and styles. The website is designed to be user-friendly, secure, and efficient, with features that enhance the shopping experience through personalized recommendations, detailed product information, and seamless order management. By leveraging advanced technology and intuitive design, FashionHouse seeks to become a preferred destination for online fashion shopping, delivering high-quality products and services to its customers.

1.2 Document Conventions

This document uses the following conventions:

- **Bold** for section headers
- *Italic* for emphasis
- `Monospace` for code or interface elements

1.3 Intended Audience and Reading Suggestions

This document is intended for:

- Project Managers
- Developers

- Testers
- Designers
- Stakeholders

It is recommended to read the document sequentially for a comprehensive understanding, but specific sections can be referred to as needed.

1.4 Product Scope

FashionHouse is an online fashion retail website offering a wide variety of clothing, accessories, and footwear for men, women, and children. The website aims to provide a superior user experience through a user-friendly interface, extensive product catalog, personalized recommendations, and efficient order management system.

1.5 References

- IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications

2. Scope

2.1 Product Perspective

FashionHouse is an independent web-based application designed to provide users with an engaging and seamless online shopping experience. It integrates with various payment gateways, delivery services, and third-party review systems.

2.2 Product Features

- User Registration and Authentication
- Product Browsing and Search
- Product Details and Reviews
- Shopping Cart and Wishlist
- Order Management and Tracking
- Payment Gateway Integration
- Personalized Recommendations
- Customer Support and Chatbot

2.3 User Classes and Characteristics

- **End Users**: General customers who browse and purchase products.
- **Admin Users**: Administrators who manage the product catalog, orders, users, and website content.
- **Guest Users**: Visitors who can browse products without the ability to purchase until registration.

2.4 Operating Environment

- Web Browsers: Chrome, Firefox, Safari, Edge
- Devices: Desktop, Tablet, Mobile
- Operating Systems: Windows, macOS, iOS, Android

3. Overall Description

3.1 Product Functions

FashionHouse allows users to:

- Register and manage their accounts
- Browse and search for products
- View detailed product information and reviews
- Add products to the shopping cart and wishlist
- Checkout and make payments securely
- Track orders and view order history
- Receive personalized recommendations based on browsing and purchase history
- Contact customer support through various channels

3.2 User Characteristics

Users of FashionHouse are expected to have basic internet and e-commerce knowledge. The interface is designed to be intuitive to accommodate users with varying levels of technical proficiency.

3.3 Constraints

- Compliance with data protection regulations (e.g., GDPR)
- High availability and performance requirements
- Secure handling of user data and payment information

3.4 Assumptions and Dependencies

- Reliable internet connection for accessing the website
- Collaboration with third-party payment and delivery services
- Regular updates and maintenance to ensure security and performance

4. Functional Requirements

4.1 User Registration and Authentication

- Users must be able to register with an email and password.
- Users must be able to log in and log out securely.
- Users must be able to reset their passwords.

4.2 Product Browsing and Search

- Users must be able to browse products by categories.
- Users must be able to search for products using keywords and filters.

4.3 Product Details and Reviews

- Users must be able to view detailed information about each product.
- Users must be able to view and submit product reviews and ratings.

4.4 Shopping Cart and Wishlist

- Users must be able to add and remove products from their shopping cart.
- Users must be able to save products to a wishlist for future reference.

4.5 Order Management and Tracking

- Users must be able to complete purchases through a secure checkout process.
- Users must be able to view and track their orders.

4.6 Payment Gateway Integration

- The website must support multiple payment methods (credit/debit cards, net banking, UPI, wallets).
- Payments must be processed securely through integrated payment gateways.

4.7 Personalized Recommendations

- The website must provide personalized product recommendations based on user behavior and preferences.

4.8 Customer Support and Chatbot

- Users must be able to contact customer support through email, phone, and live chat.
- The website must include an AI-powered chatbot to assist with common queries.

5. Non-Functional Requirements

5.1 Performance Requirements

- The website should load within 3 seconds under normal usage conditions.
- The system should handle at least 10,000 concurrent users without performance degradation.

5.2 Security Requirements

- User data must be encrypted in transit and at rest.
- The system must implement multi-factor authentication for enhanced security.
- Regular security audits and vulnerability assessments must be conducted.

5.3 Usability Requirements

- The website must have a responsive design to ensure usability across all devices.
- The interface should be intuitive and easy to navigate for all user types.

5.4 Reliability Requirements

- The website must have an uptime of 99.9%.
- Data backups should be performed daily to prevent data loss.

5.5 Maintainability Requirements

- The system should be modular to facilitate easy updates and maintenance.

- Clear documentation must be provided for all system components.

6. Interface Requirements

6.1 User Interfaces

- The homepage should feature product categories, promotions, and personalized recommendations.
- Product pages must display images, descriptions, prices, reviews, and related products.
- The shopping cart interface should allow users to view and modify their selected items.
- The checkout interface must be secure and straightforward, with clear steps for completing a purchase.

6.2 Hardware Interfaces

- The website must be compatible with standard web servers and databases.
- No special hardware interfaces are required.

6.3 Software Interfaces

- Integration with third-party payment gateways (e.g., Stripe, PayPal).
- Integration with delivery service APIs for order tracking.
- Integration with third-party review systems (e.g., Trustpilot).

6.4 Communication Interfaces

- The website should support HTTPS for secure communication.
- APIs must be provided for mobile app integration and third-party services.

7. Conclusion

FashionHouse aims to revolutionize the online shopping experience by providing a robust, secure, and user-friendly platform. By addressing both functional and non-functional requirements, FashionHouse ensures that users can enjoy a seamless and personalized shopping experience while maintaining high standards of performance, security, and reliability. This SRS document serves as a comprehensive guide for the development and implementation of the FashionHouse website, ensuring that all stakeholders have a clear understanding of the project's goals and requirements.