**Software Requirement Specification (SRS)**

**1. Introduction**

**1.1 Purpose** The purpose of this document is to specify the software requirements for the "NEEMAN Men's Wear" e-commerce portal, which sells clothing for men and small babies online.

**1.2 Scope** This document details the functional and non-functional requirements for the development of the NEEMAN Men's Wear e-commerce system.

**1.3 Definitions, Acronyms, and Abbreviations**

* **SRS**: Software Requirement Specification
* **UI**: User Interface
* **UX**: User Experience
* **SKU**: Stock Keeping Unit

**2. Overall Description**

**2.1 Product Perspective** The NEEMAN Men's Wear portal is an independent e-commerce system designed to provide an efficient and user-friendly shopping experience for men's and baby's clothing.

**2.2 Product Functions**

* User Registration and Login
* Product Catalog Display
* Search and Filter Functionality
* Shopping Cart Management
* Secure Checkout and Payment
* Order Tracking

**2.3 User Classes and Characteristics**

* **Customers**: Individuals purchasing men's and baby's clothing
* **Administrators**: Personnel managing the product catalog, orders, and user accounts

**2.4 Operating Environment**

* **Web-based**: Accessible via major web browsers (Chrome, Firefox, Safari, Edge)
* **Mobile-friendly**: Responsive design for mobile devices

**3. Functional Requirements**

**3.1 User Registration and Login**

* **Description**: The system shall allow users to register and log in to their accounts.
* **Inputs**: User details (name, email, password)
* **Outputs**: Access to user account
* **Dependencies**: Internet connection, email service

**3.2 Product Catalog Display**

* **Description**: The system shall display a catalog of men's and baby's clothing, including product details and images.
* **Inputs**: Product information from the database
* **Outputs**: Displayed product catalog
* **Dependencies**: Database access

**3.3 Search and Filter Functionality**

* **Description**: The system shall allow users to search for products and apply filters (e.g., size, color, price).
* **Inputs**: Search queries and filter criteria
* **Outputs**: Filtered product list
* **Dependencies**: Search and filter algorithms

**3.4 Shopping Cart Management**

* **Description**: The system shall provide a shopping cart feature where users can add, update, and remove items.
* **Inputs**: Product selection actions
* **Outputs**: Updated shopping cart
* **Dependencies**: Session management

**3.5 Secure Checkout and Payment**

* **Description**: The system shall enable users to proceed to checkout and complete the payment process.
* **Inputs**: Payment details (credit card, PayPal, etc.)
* **Outputs**: Order confirmation
* **Dependencies**: Payment gateway integration

**3.6 Order Tracking**

* **Description**: The system shall allow users to track the status of their orders.
* **Inputs**: Order ID
* **Outputs**: Order status information
* **Dependencies**: Order management system

**4. Non-Functional Requirements**

**4.1 Performance Requirements**

* The system shall respond to user inputs within 2 seconds.
* The system shall handle up to 1,000 concurrent users.

**4.2 Security Requirements**

* The system shall ensure that user data is encrypted.
* The system shall require user authentication for access.

**4.3 Usability Requirements**

* The system shall have an intuitive and user-friendly interface.
* The system shall be accessible via both desktop and mobile devices.

**4.4 Reliability Requirements**

* The system shall have a 99.9% uptime.
* The system shall provide automatic backups of user data.

**5. Assumptions and Dependencies**

**5.1 Assumptions**

* Users have access to the internet.
* The project will be completed within 6 months.

**5.2 Dependencies**

* Third-party payment gateway integration.
* Hosting and domain services.

**6. Approval and Sign-off**

**6.1 Approval**

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* Project Manager: Nisha Vaidya
* Date: [Date]