

Software Requirements Specification (SRS) Document for Clothify

1. Introduction

1.1 Purpose This Software Requirements Specification (SRS) document outlines the functional and non-functional requirements for the Clothify Store Management System. The system is intended to streamline operations for store employees and the store owner, Mr. Sheshan Thilakshana, by providing user-friendly interfaces, inventory management, and reporting capabilities.

1.2 Scope Clothify Store Management System will consist of two interfaces:

- A user interface for store employees.
- An admin interface for the store owner. The system will support user management, product catalog management, inventory control, supplier and employee management, order placement, and reporting.

1.3 Definitions, Acronyms, and Abbreviations

- **SRS:** Software Requirements Specification
- **OTP:** One-Time Password
- **ID:** Identifier

1.4 References None specified.

2. System Overview The Clothify system will have a user-friendly interface for employees and a feature-rich admin dashboard for the store owner. It will handle user authentication, product management, supplier and employee tracking, order placement, and comprehensive reporting.

3. Functional Requirements

3.1 User Management

- **User Registration:**
 - Two types of users: Default users (store employees) and Admin users (store owner/manager).
 - Account creation via email address and password (minimum 8 characters, includes letters, numbers, and symbols).
 - Users can update their passwords.
 - Only the admin user can register new users.

- **User Authentication:**

- Login via email and password.
- OTP-based password recovery.
- Admin users are directed to the admin dashboard; default users are directed to the default dashboard.

3.2 Product Management

- **Product Catalog:**

- Categories: Ladies, Gents, and Kids.
- Product details: ID, name, size, price, quantity, and image (if possible).
- Users can add new products (auto-generated ID, supplier required).

- **Inventory Management:**

- Real-time quantity tracking for stock updates and purchases.
- Users can add stock, update, or remove items.
- Inventory adjusts for returned orders.

3.3 Supplier and Employee Management

- **Supplier Management:**

- Add suppliers with details: Name, Company, Email, and Item.
- Auto-generate supplier ID.
- View, update, or remove supplier details.

- **Employee Management:**

- Admin adds employees with details: Name, Company, and Email.
- Auto-generate employee ID.
- Admin updates or removes employee details.

3.4 Order Management

- **Order Placement:**

- Capture order details: Order ID (auto-generated), items, total cost, payment type, and employee information.
- Email receipt to the customer.
- Handle returned orders.

- **Order Details:**
 - View past orders.

3.5 Reports

- Generate and print:
 - Inventory reports.
 - Employee reports.
 - Supplier reports.
 - Admin-only reports:
 - Sales reports (Daily, Monthly, Annual).
 - Display reports with line and pie charts.
 - Generate reports using Jasper Reports.
-

4. Non-Functional Requirements

4.1 Performance Requirements

- The system should handle simultaneous access by multiple users without performance degradation.
- Real-time inventory updates should reflect within 2 seconds.

4.2 Usability Requirements

- Interfaces should be intuitive and easy to navigate for non-technical users.

4.3 Security Requirements

- User passwords should be hashed and stored securely.
- OTP for password recovery must be valid for 10 minutes.
- Role-based access control for admin and default users.

4.4 Availability Requirements

- System uptime must be 99.9%.

4.5 Maintainability Requirements

- Modular design for easy updates to user roles, product categories, and reporting functionalities.
-

5. Assumptions and Constraints

- Email services are available and functional for OTP and receipts.
 - Jasper Reports integration is pre-configured.
 - The system will be deployed on a reliable server with adequate resources.
-