1. Introduction

1.1 Purpose

The purpose of this document is to define the software requirements for the **Clothing Store Management System (Clothify Store)**. This system aims to streamline store operations, including inventory management, sales tracking, and reporting.

1.2 Scope

The system will be a **standalone JavaFX application** designed for a clothing store. It will support **user management**, **product catalog**, **inventory control**, **order management**, **and reports generation**. The system will be built using **JavaFX**, **Hibernate**, **Jasper Reports**, **MySQL**, **and Maven**.

1.3 Intended Audience

- Software Developers
- Store Administrators
- Business Analysts
- Project Stakeholders

2. System Overview

2.1 Features

- User Authentication & Management
- Product & Inventory Management
- Supplier & Employee Management
- Order Processing & Invoicing
- Sales & Inventory Reporting

3. Functional Requirements

3.1 User Management

Admin can add/edit/delete users

- Employees can update their passwords
- OTP-based password reset functionality

3.2 Product Management

- Add/Edit/Delete/View products
- Products categorized into Men, Women, Kids sections
- Auto-generated Product IDs

3.3 Inventory Management

- Track stock levels
- Update inventory upon sales or restocking
- Handle product returns

3.4 Order Management

- Place new orders
- Generate invoices & send to customers via email
- Track previous orders

3.5 Reporting

- Admin can generate Sales Reports (Daily/Monthly/Annual)
- Employees can generate Inventory & Employee Reports
- Reports are generated using Jasper Reports

4. Non-Functional Requirements

4.1 Performance

- The system should be optimized for fast load times
- Database queries should be efficient

4.2 Security

- User passwords should be encrypted
- Only admins should have access to critical actions (e.g., user creation, sales reports)

4.3 Usability

- The system should have a modern UI using JFoenix (Material Design for JavaFX)
- The UI should be responsive & resizable

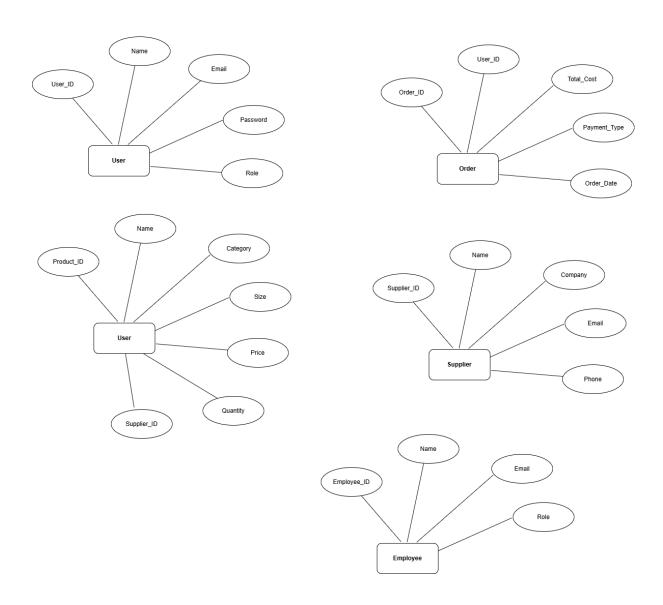
5. System Architecture

- The system follows a Layered Architecture
 - Presentation Layer (JavaFX UI)
 - Service Layer (Business Logic)
 - Data Access Layer (Hibernate & MySQL)

6. Use Case Diagram

• [Include Use Case Diagram]

7. ER Diagram



8. Constraints and Assumptions

- The application should run on Windows, macOS, and Linux
- Internet connection required for email-based password reset

9. References

- JavaFX: https://openjfx.io/
- Hibernate: https://hibernate.org/
- Jasper Reports: https://community.jaspersoft.com/