

Software Requirements Specification

Clothify Store

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1.0 Introduction

1.1 Purpose

The purpose of this document is to present a detailed description of Clothify Store. It will explain the purpose and features of the system, the interfaces of the system, what the system will do.

1.2 Scope of project

This software system will help users automate many of their time-consuming tasks. The aim of this software management system is revolutionize the way owner manage his business. This software management system will be enable users to automate inventory management, sales tracking, and billing process.

This will not only save their time but will also reduce the likelihood of errors, which will help them serve their customers better. By providing their employees with the tools they need to manage their business processes efficiently, they will be able to focus on what they do best – providing their customers with the latest fashion trends and exceptional service.

1.3 References

- Encryption: <https://www.javatpoint.com/how-to-encrypt-password-in-java#:~:text=The%20password%2Dbased%20encryption%20technique,util%20package.>
- More of JFoenix: <https://genuinecoder.com/javafx-materia-design-setting-up-login-application-html/>
- Maven Repository: <https://mvnrepository.com/>
- JavaFX: <https://openjfx.io/openjfx-docs/>
- Hibernate: <https://hibernate.org/orm/documentation/6.3/>
- MySQL: <https://dev.mysql.com/doc/>
- Hibernate Many-to-many Relationship: <https://www.baeldung.com/jpa-many-to-many>
- React Colors: <https://casesandberg.github.io/react-color/>
- API : https://thenewblack.ai/clothing_fashion_api_integrations

1.4 Overview of Document

The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product.

Both sections of the document describe the same software product in its entirety, but are intended for different audiences and thus use different language.

2.0 Requirements

2.1 Functional Requirements

There will be two interfaces: a user interface for store employees and an admin interface for the store owner.

User Management:

❖ User Registration:

- There are two types of users. Default user (store employee) and Admin user (store owner/manager).
- Users should be able to create accounts using their email address and a password (8 characters or more, including numbers, letters, and symbols).
- Users should have the ability to update the password for their account.
- Only the main admin user (store owner) should have the ability to register a new user.

❖ User Authentication:

- During login, users should enter their email and password.
- The system should verify the provided credentials against stored user data.
- In the event of a user forgetting their password, the user should be able to send an OTP pin to their email and reset the password.
- An admin user, they should be directed to the admin dashboard. Otherwise, the user should be directed to the Default dashboard.

Product Management:

❖ Product Catalog:

- The product catalog should include categories such as Ladies, Gents and Kids.
- Each category should have a range of products associated with it.
- The products should have basic details such as an ID, name, size, price and quantity on hand. If possible, the products should have an image.
- Any user should be able to add a new product to the system.
- Each added item should have a supplier and an auto-generated ID.

❖ Inventory Management:

- Each product should have a field to track its available quantity in stock.
- The system should update the available quantity in real-time as purchases are made or stock is added.
- Any user should be able to add an item stock to the system.
- In the event of an order being returned, the inventory should be updated.
- Any user should be able to update and remove an item.

Supplier and Employee Management:

❖ Supplier Management:

- ◆ Users should be able to add a new supplier. When adding a supplier, the system should gather the supplier's details. (Name, Company, Email address, Item).
- ◆ Each supplier should have an auto-generated ID.
- ◆ Users should be able to see the items supplied by each supplier.
- ◆ Users should be able to update the supplier's details or remove a supplier altogether.

❖ Employee Management:

- ◆ Admin user should be able to add a new employee. When adding an employee, the system should gather the employee's details. (Name, Company, Email address).
- ◆ Each employee should have an auto-generated ID.
- ◆ Admin user should be able to update the employee's details or remove an employee altogether.

Order Management:

❖ Order Placement:

- ◆ When a customer makes a purchase, the user should be able to place an order. The system should capture and store the relevant details, including the order ID, items purchased, total cost and payment type.
- ◆ The order ID should be auto-generated. The order details should also include the name and ID of the employee who made the sale.
- ◆ Customer should receive a receipt via email.
- ◆ The order can be returned, if needed.

❖ Order Details:

- ◆ Users should be able to view the order details of past orders.

Reports:

- When an order is placed, a receipt should be generated.
- User should be able to print an inventory report.
- User should be able to print an employee report.
- User should be able to print a supplier report.
- Only the admin user should be able to preview and generate sales reports (Daily, Monthly, Annual reports).
- Reports should be displayed using charts. (Line charts & Pie charts)
- All reports should be generated using Jasper Reports.

2.2 Non-Functional Requirements

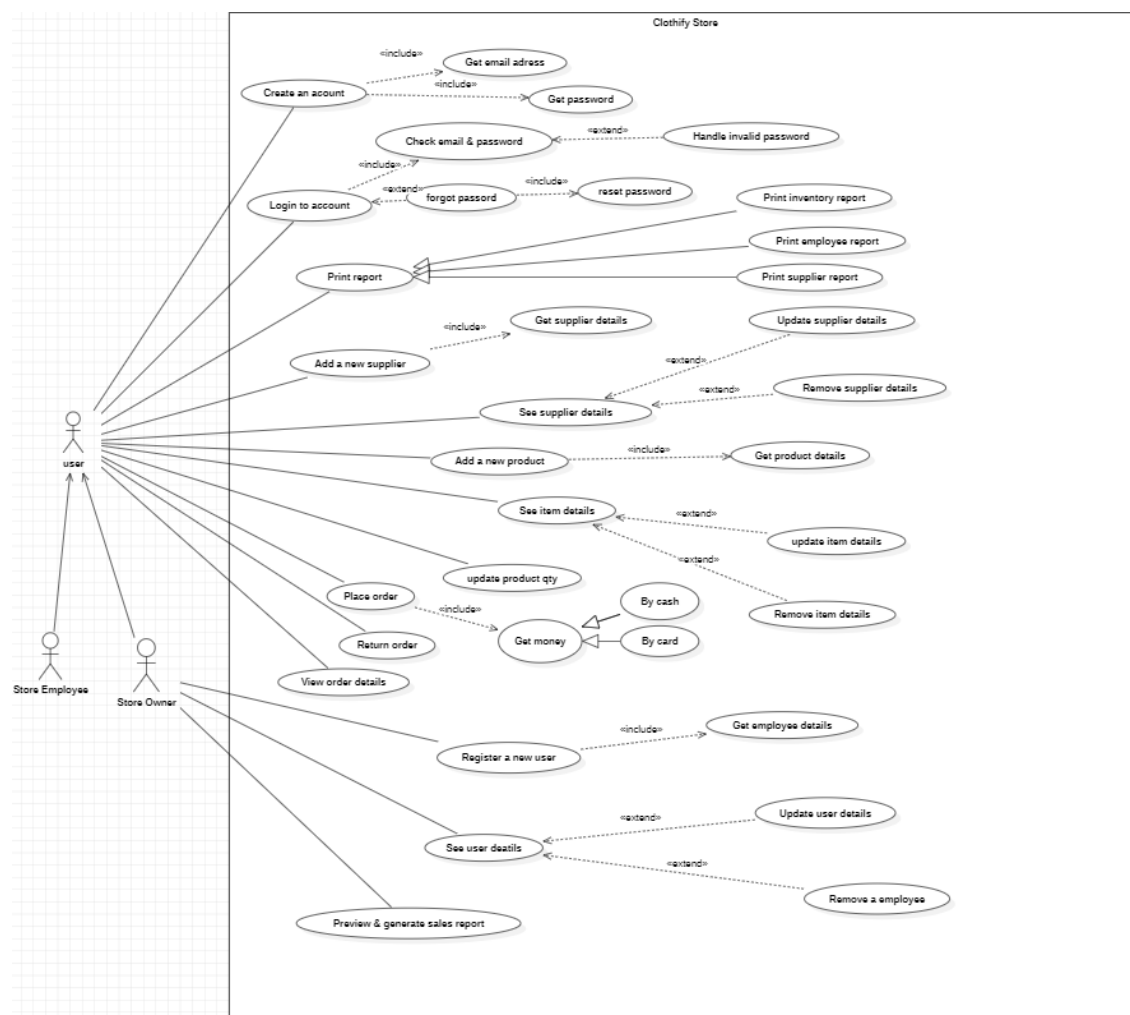
The Clothify store's software management system will be on a server with high speed Internet capability. The speed of the user's connection will depend on the hardware used rather than characteristics of this system.

The Store owner will run on the editor's PC and will contain an Access database.

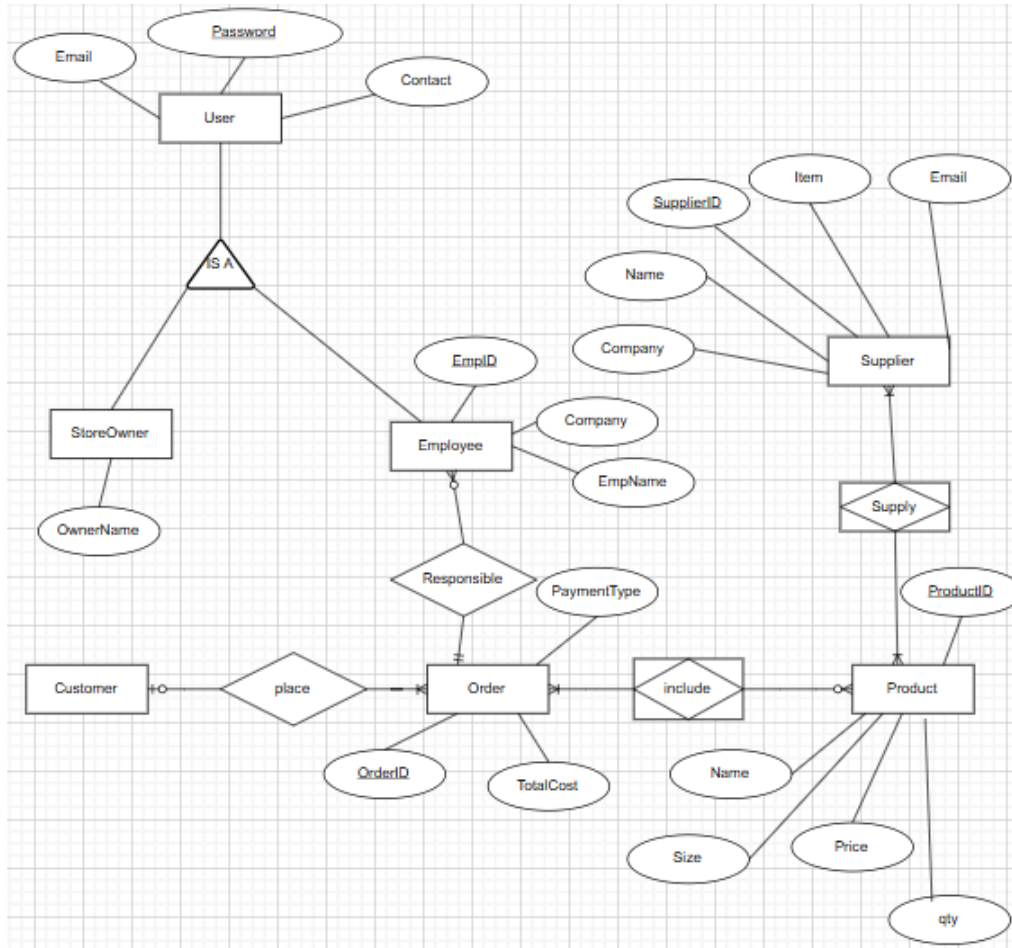
Access is already installed on this computer and is a Windows operating system. Employees shouldn't be able to preview and generate sales reports.

3.0 Overall Description

3.1 Use case diagram



3.2 Entity Diagram



3.3 Project Architecture

