System Requirement Specification

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Point of Sale Software

**Purpose of This document:**

The purpose of this document is to create a detailed description of the Capstone project. It will discuss the requirements of the system, both functional and non-functional, as well as improvements that could be made in the future. It will explain the features of the system.

**Product Perspective:**

The system being created is a basic point of sale software. There will be ways to create and maintain users, customers, items, and transaction information.

//note – maybe add “vendor” to this area based on functional reqs

**Functional Requirements:**

1. User Maintenance
   1. Users will have to register with system to be able to use any of the functions.
   2. After being registered, users will have to log into the system to be able to access the functionality.
2. Item Maintenance
   1. Users will be able to add new items to be sold by the system.
   2. Items will be able to be searched through for ease of maintenance.
   3. Item information will be able to be changed.
   4. Items will have an availability count for ordering purposes.
   5. Items will have a vendor from which they are purchased.
   6. Items will be able to be inactivated so that they will no longer be able to be sold.
3. Vendor Maintenance
   1. Users will be able to add new vendors.
   2. Users will be able to update vendor information.
   3. Vendors will be searchable for maintenance.
   4. Users will be able to mark vendors as inactive if they are no longer supplying items.
4. Customer Maintenance
   1. Users will be able to add customers to system for tracking purposes.
   2. Customer information will be able to be updated.
   3. Users will be able to search for customers to more easily find past transactions or update customer information.
   4. Customers will be able to be marked as inactive, so they are no longer available.
5. Transactions Maintenance
   1. Users will be able to add, remove, and change the quantity of items being sold.
   2. Users will be able to add or remove a customer to the transaction.
   3. Users will be able to complete a sale that will modify on hand counts, take a payment, and then be stored.
   4. Users will be able to do a return transaction that will modify on hand counts, return payment, and be stored.
   5. Past transactions will be able to be searched.

**Future Changes:**

1. Implement Customer loyalty program
2. Implement Ordering -- ??? Stock Replenishment
3. Implement User permissions for different activities

**Non-Functional Requirements:**

1. Usability

The system will have a graphical user interface with the same look and feel across all pages making it easier for users to use the system.

1. Security

The system will make all users login with a password containing at least eight characters with at least one capital letter, one number, and one symbol.

1. Reliability

The system will run with no errors.

1. Maintainability

The system will be designed so that each module is independent of the others, so that adding new functionality does not inhibit the use of currently working modules.

1. Testability: **include something about junit**
2. Platform – ??? Java and Oracle

**Workflow Diagram:**

Diagram

Description automatically generated

**Data Model:**

Diagram

Description automatically generated