**Information Systems 3**

**T3**

**Assignment**

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**Uwaiz Laher - 221270191**

**Muhammad Siddeeq Rabin - 221084096**

**Strathmore York Fynn - 221547290**

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# Store Inventory Management System

## Introduction

This document is made to inform the reader of the most important details relating to the Store Inventory Management System. It is meant to serve as a companion piece with the system itself. The system was designed to be used by store managers, giving them a wide overview of the store from the various items used for profit to the employees and regular customers.

At its core the system stores data relating to the stores inventory. Accompanying this it also stores data relating to the stores warehouse, contact and shift information for each and every employee, contact information for every regular customer (that has made an account with the store) and each and every sale.

## Problem Statement

Smaller stores are are still using more archaic methods of inventory taking using physical methods such as notebooks, stock cards and other pen and paper systems.. This method is slow and time consuming, costing the store time and by extension profit. As the store grows, their selection of items expands, the amount of employees grow and a customer base is formed which slowly cultivates.. This only heightens the amount of work required to ensure that the store inventory is accurate and employee work times do not contradict themselves.

Restocking the store also takes far too much time. The quantity of a product is difficult to track when stock is only taken after hours using a notebook and so orders from the stores warehouse can only be done at the end of the day instead of immediately when a products quantity drops to a minimal amount. This issue causes deliveries from the warehouse to arrive at inopportune times and the following unloading, packing and restocking must be delayed until there are employees that can be assigned to this duty.

## System Aim

The systems purpose is to streamline the store stock management process. Users(Store Managers) will be able to view the stores entire current inventory, information regarding their employees(Contact information along with Shift information), Warehouse stock and also information regarding regular customers.

Along with allowing the stores inventory to be viewed with far more ease the system will also allow for orders to be automatically sent to the warehouse when the quantity of a product drops below a certain amount. This will eliminate the need for a manual order to be issued by the manager. The warehouse orders delivery time will be view-able, allowing the manager time to assign employees to unpack and restock when it arrives.. The order status(whether it is pending or complete) will also be visible to the Manager.

Outside of the systems inventory management functions it also keeps track of employee data. This information revolves around employees themselves (including managers) and their shifts. Employee contact information will be stored allowing management to contact any employee if there is a disruption and the employee has not called in ahead. Employees will also be able to view their shift time and in which area of the store they will be assigned in for that shift (Food, Clothing and Home Decoration).

With this system outdated methods of inventory management will be rendered obsolete.

## System Scope

The Store Inventory Management System is designed for tracking and managing the inventory of a singular store which sells 3 categories of products. These categories are Groceries, Clothing and Home decoration items. The system allows the stores managers to view inventory levels at any time, employee/customer information(Contact information for both and shift information for employees). Warehouse inventory and orders from the warehouse will also be view-able from the system though only managers will be able to view this data.

### In Scope

* Adding, editing and deletion of records
* Tracking of sales transactions
* Tracking of product quantity
* Automatic warehouse order issuing
* Tracking of warehouse deliveries

### Out of Scope

* Mobile Integration
* Offline functionality
* Online ordering

## Requirements (Functional and Non-functional)

### Functional

* Inventory Tracking
* Management of Products
* Management of Employees
* Tracking of Employee shifts
* Automatic order issuing when product quantity is low

### Non-Functional

* System Performance
* Usability
* Scalability
* Reliability

## Database Design(ERD)

