Supermarket Manager

Version <1.0>

Revision History

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# Introduction

Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the Supermarket Management System. It focuses on the capabilities needed by the stakeholders and target users and why these needs exist. The details of how the Supermarket Management System fulfills these needs are detailed in the use-case and supplementary specifications.

## Purpose

The purpose of this Vision document is to provide an overview of the Supermarket Management System and its functionalities, as well as to outline the scope and requirements for its development.

## Scope

This Vision document is associated with the development of the Supermarket Management System, which is a client-server application for the employees of a supermarket. The system will have two types of users, a regular user represented by the cashier, and an administrator user, each requiring a username and password to use the application. The regular user will be able to sell products, while the administrator user will have the ability to perform CRUD operations on user accounts and products, generate reports in different formats, and activate promotions.

## Definitions, Acronyms, and Abbreviations

CRUD: Create, Read, Update, Delete

XML: Extensible Markup Language

TXT: Text

## References

No references are required for this Vision document.

## Overview

This Vision document includes an introduction, purpose, scope, definitions, acronyms, abbreviations, and an overview of the document's contents. The subsequent sections will provide more details on the system requirements and functionality.

# Positioning

## Problem Statement

The problem of inefficient management of supermarket sales and stock affects the supermarket employees and customers. The impact of this problem includes inaccurate sales records, difficulty in tracking stock levels, and long wait times for customers. A successful solution would provide efficient management of sales and stock, accurate records, and a smooth shopping experience for customers.

## Product Position Statement

For supermarket employees and customers who want an efficient and accurate supermarket management system, the Supermarket Management System is a client-server application that streamlines sales and stock management. Unlike manual methods or existing solutions that are limited in functionality, the Supermarket Management System offers comprehensive management capabilities, including generating reports and activating promotions, providing a seamless shopping experience for customers.

Stakeholder and User Descriptions

3.1 Stakeholder Summary

Name Description Responsibilities

Supermarket owners The owners of the supermarket who are funding the project and will benefit financially from its success. Approve funding and monitor the project’s progress. Ensure that the system will be efficient and profitable.

Software development team The team responsible for developing the application. Design and develop the system according to the requirements, budget, and timeline agreed with the stakeholders. Ensure the system is scalable, maintainable, and meets industry standards.

1. Hardware providers The providers of the hardware necessary for the system to run. Ensure that the hardware is compatible with the software and meets the system requirements. Provide technical support and maintenance for the hardware.

3.2 User Summary

Name Description Responsibilities Stakeholder

Cashier The employee responsible for selling products and processing transactions. Initiate and finalize a sell, add products to a sell, compute the total price, decrease the products’ stocks, and issue an invoice. Administrator user

Administrator user The employee responsible for managing the system, products, and user accounts. CRUD on user accounts and products. Issue reports in different formats (xml, txt) with the best-selling products, the products out of stock, and the employees’ activity. Activate promotions. Supermarket owners

3.3 User Environment

The cashier will be working in a fast-paced environment with a potentially high number of customers. The task cycle is relatively short, with minimal time spent on each activity to ensure efficient transaction processing. The system will be used indoors in a fixed location. The application will need to integrate with barcode scanners, cash registers, and printers.

1. Product Requirements

* The system should be accessible through a web-based interface.
* The system should support multiple users with different roles and permissions.
* The system should require authentication for user access.
* The system should be able to store and retrieve data from a database.
* The system should allow CRUD operations on user accounts and products.
* The system should be able to generate reports in different formats (xml, txt).
* The system should be scalable to handle an increasing number of products and transactions.
* The system should be able to integrate with barcode scanners, cash registers, and printers.