

Software Requirements Specification

for

POS System - E&E Service Center

1. Introduction

1.1 Purpose

The purpose of this document is to define the requirements for the development of a Point of Sale (POS) system for the electronics and electrical shop (E&E Service Center).

1.2 Scope

The POS system will provide a user-friendly interface for processing sales transactions, managing inventory, and generating reports for the electronics and electrical shop.

2. System Description

2.1 System Overview

The POS system will include modules for sales processing, inventory management, user authentication, and reporting. It will be designed to support the specific needs of an electronics and electrical shop.

2.2 System Features

2.2.1 Sales Processing

- User authentication and authorization.
- Product catalog with details such as code, description, price, and stock levels.

- Ability to add products to the cart (make orders).
- Support for multiple payment methods (cash, credit card, etc.).
- Generation of receipts for completed transactions

2.2.2 Inventory Management

- Real-time updates of product stock levels.
- Product categorization for easy navigation.
- Low stock alerts and reorder notifications.
- Product search and filtering capabilities.

2.2.3 User Authentication

- Secure login with username and password.
- User roles: general user (cashier, sales providers, other employees), admin user (Owner /Manager).
- Access control for different functionalities based on user roles. (Admin interface /User Interface)

2.2.3 Reporting

- Sales reports for a specified time period
- Inventory status reports
- User activity logs.

3. Functional Requirement

3.1 Sales Processing

3.1.1 User Interface

- Intuitive and user-friendly interface for adding products to the cart.
- Display of product details, quantity, and total cost during the checkout process.

3.1.2 Payment Processing

- Integration with payment gateways for credit card transactions.
- Cash handling features, including change calculation.

3.2 Inventory Management

3.2.1 Product Management

- Add, edit, and delete products from the catalog.
- Track product availability and stock levels.

3.2.2 Notifications

- Automated notifications for low stock levels.
- Reorder notifications for out-of-stock items.

3.1 User Authentication

3.3.1 Login

- Secure login with username and password.

3.3.2 Access Control

- Restrict access to certain features based on user roles.

3.4 Reporting

3.4.1 Sales Reports

- Generate sales reports for a specified date range.
- View detailed transaction history.

4. Non-Functional Requirement

4.1 Performance

- Response time for any transaction should be within 2 seconds

4.2 Security

- Data encryption for sensitive information
- Regular security audits to identify vulnerabilities

4.3 Usability

- The system should be easy to use for employees with basic computer skills

5. Constrains

- The POS system must be compatible with Windows and MacOS operating systems.
- The system must support at least 1000 products in the catalog

6. Assumptions and dependencies

- It is assumed that the hardware (computers, printers, etc.) required for the POS system will meet the specified system requirements.
- The system depends on a stable internet connection for credit card transactions

7. Revision History

Version	Date	Description
1.0	29.12.2023	Initial version of the document

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