

1. Introduction

1.1. Purpose

This section should describe the purpose of the document and the software that will be developed. It should also include a brief overview of the key features and functionality of the software.

The purpose of this Software Requirement Specification (SRS) document is to describe the requirements for developing a point-of-sale system for Coca-Cola warehouse. The software is intended to provide an efficient and user-friendly interface for managing sales, inventory, and employee information. It also aims to improve the overall customer experience and ensure that transactions are processed securely and accurately.

1.2. Scope

This section should define the scope of the project, including the features and functionality that will be included in the software. It should also describe any constraints or limitations that will impact the development of the software.

The software will include several forms, such as login and welcome page, verification form, user registration form, stocks registration form, cashier page, reports page, and main page. The software will be developed using VB.NET2010, MSACCESS, MS EXCEL, CRYSTAL REPORTS and SQL technologies. The system will be able to register products, track inventory, calculate sales, generate reports, and manage employee information. The software will also have pleasing photos, colors, fonts, and icons, as well as secured data.

1.3. Definitions, Acronyms, and Abbreviations

This section should include any relevant definitions, acronyms, or abbreviations that will be used in the document.

- SRS: Software Requirement Specification
- POS: Point of Sale
- CRUD: Create, Read, Update, and Delete
- UI: User Interface
- UX: User Experience
- SQL: Structured Query Language
- VB.NET2010: Visual Basic .NET 2010
- CR: CRYSTAL REPORTS

2. General Description

2.1. Product Perspective

This section should describe how the software will fit into the larger system or environment in which it will be used. It should also describe any interfaces or dependencies that will impact the development of the software.

The software will be a standalone system that will be used within the Coca-Cola warehouse. It will be integrated with the existing inventory and employee management system of the company. The software will be used by employees with different access levels, such as managers with admin access and cashiers and stocks with user access.

2.2. Product Features

This section should provide a detailed description of the key features and functionality of the software.

- **Login and welcome page:** The page should include username, password, register now, show/hide password, and forgot password, and time feature.
- **Verification form:** The form should prompt a unique set of codes that only an admin has access to.
- **User registration form:** The form should include uploading a display profile photo, creating a unique employee ID, password and retype password, position (manager, cashier, stocks), and display registered, updated, and current employees.
- **Stocks registration form:** The form should include CRUD functionality, barcode, item name, description, quantity, buy and sell price, and critical (alerts if low on stock).
- **Cashier page:** The page should easily perform calculations for the customer, display the current cashier, include the current date and time, discounts and coupons, and provide superb payment processing.
- **Reports page:** The page should provide sales, inventory, employee, and customer reports and data analysis of the company with the use of Microsoft Excel and Crystal Reports.
- **Main page:** The page should provide choices for what page to go and have an excellent UI and UX providing real date and time feature.

2.3. User Characteristics

This section should describe the target audience for the software, including their technical knowledge and any specific requirements or preferences they may have.

The target audience for the software is employees of the Coca-Cola warehouse. They should have basic technical knowledge and be familiar with the existing inventory and employee management system of the company. The software should be easy to use and navigate.

3. Specific Requirements

3.1. Functional Requirements

This section should provide a detailed description of the functional requirements for the software, including any specific features or functionality that must be included.

3. The functional requirements of the software are as follows:

Form 1 - Login and Welcome Page:

- The form should have a field for entering a valid username and password.
- The form should have show/hide password feature.
- The form should provide a register now and forgot password option.
- The form should display a welcome message after successful login.
- The form should have validation for the username and password.
- The form should display the accurate complete date and time of the day.

Form 2 - Verification Form:

- The form should display a unique set of codes that only admin can access.
- The form should be accessible only by an authorized user.
- The form should be accessible to HR Manager with User Registration access.

Form 3 - User Registration Form:

- The form should allow the employee to upload a display profile photo.
- The form should generate a unique employee ID.
- The form should allow the employee to create and confirm a password.
- The form should provide different position options (Manager, Cashier, Stocks) with different access levels.
- The form should display the registered, updated, and current employees with their details.
- The form should have shortcut keys for easy access.

Form 4 - Stocks Registration Form:

- The form should have CRUD functionality.
- The form should allow the user to register different product varieties with details such as barcode, item name, description, quantity, buy and sell price, and critical (alerts if low on stock).
- The form should display official products of the company.

Form 5 - Cashier Page:

- The form should display the current cashier.
- The form should display the current date and time.
- The form should have discounts and coupons.
- The form should have superb payment processing.
- The form should be user-friendly, efficient, and secure.
- The form should handle transactions, manage inventory, and track sales within the day, weeks, months, and years.

Form 6 - Reports Page:

- The form should display sales, inventory, employee, and customer reports.
- The form should provide data analysis of the company.

Form 7 - Main Page:

- The form should provide choices of pages to access.
- The form should only display depending on the employee's privilege.
- The form should be user-friendly and have excellent UI and UX.

Other Functional Requirements:

- The system should be able to handle concurrent users.
- The system should validate input data and display appropriate error messages.
- The system should have data backup and restore features.
- The system should provide data export to various formats such as Excel, CSV, and PDF.
- The system should provide data search and sorting functionalities.

3.2. Non-Functional Requirements

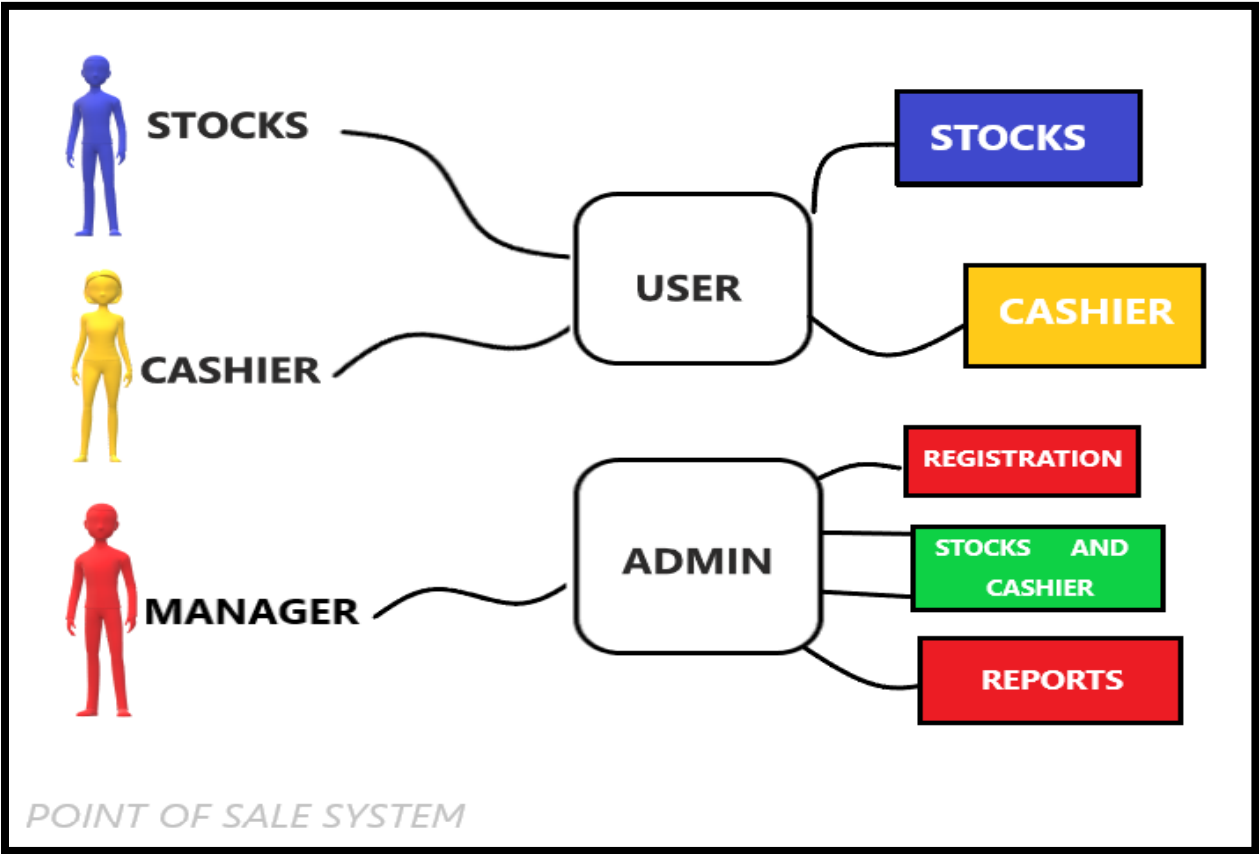
This section should describe any non-functional requirements for the software, including performance, security, and usability requirements. (Use ISO 25010:2011 Software Quality Metrics).

- **Performance:** The software should be fast and responsive.
- **Security:** The software should be secure and protect customer and employee information.
- **Usability:** The software should be easy to use and navigate.
- **Maintainability:** The software should be easy to maintain and update.
- **Reliability:** The software should be reliable and accurate.
- **Compatibility:** The software should be compatible with existing systems and technologies.
- **Scalability:** The software should be scalable to accommodate increasing demands and a growing user base.
- **Accessibility:** The software should be accessible to users with disabilities.
- **Portability:** The software should be portable across different platforms and devices.
- **Data Integrity:** The software should ensure the accuracy and consistency of data.
- **Error Handling:** The software should handle errors gracefully and provide helpful error messages to users.
- **Backup and Recovery:** The software should have a backup and recovery system in place to prevent data loss in case of system failures or errors.
- **Performance Efficiency:** The software should be able to handle a large volume of transactions efficiently without any significant delays or system crashes.
- **Interoperability:** The software should be able to work seamlessly with other systems and technologies.

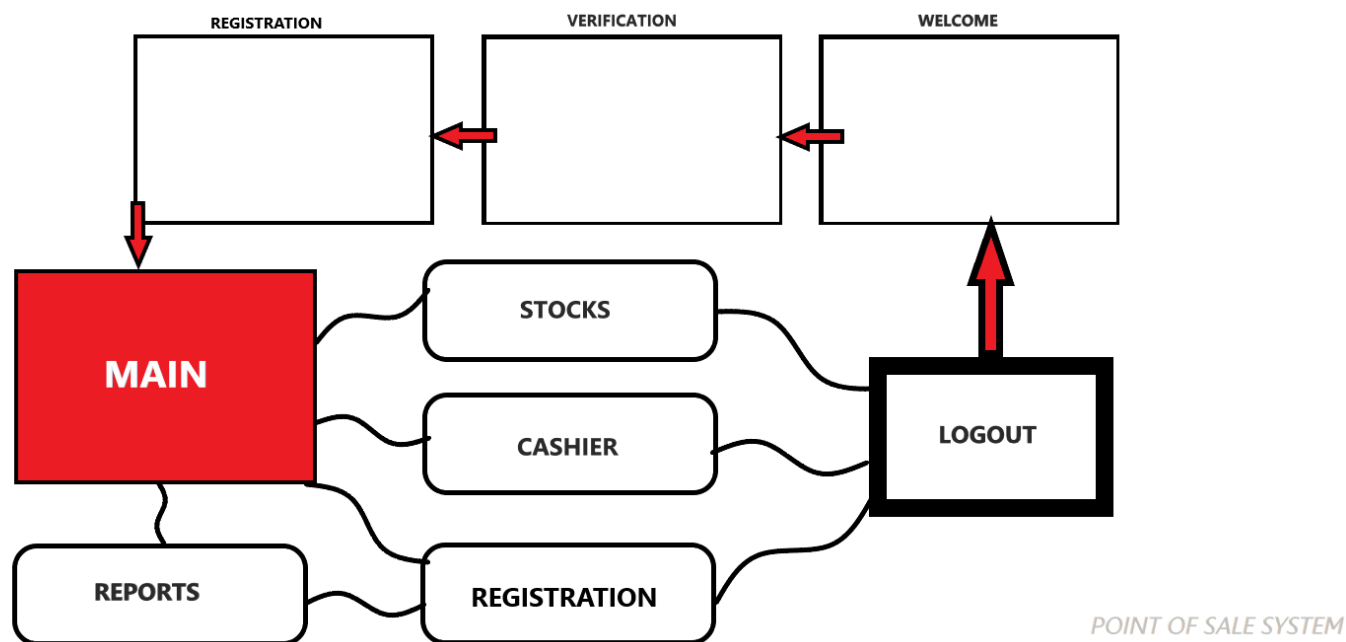
4. Appendices

This section should include any additional information that is relevant to the software requirement specification, such as diagrams, flowcharts, or mockups.

Appendix A: Use Case Diagrams



Appendix B: Sequence Diagrams



Appendix C: Class Diagrams

Class Diagram Description:

- 1.Employee:**
 - Attributes: employeeID, position, username, password
 - Operations: register(), update(), delete(), login(), logout()
- 2. Cashier:**
 - Inherits from Employee
 - Operations: processSale(), applyDiscount()
- 3. Stock:**
 - Attributes: barcode, itemName, description, quantity, buyPrice, sellPrice
 - Operations: addStock(), updateStock(), deleteStock()
- 4.Manager:**
 - Operations: generateSalesReport(), generateInventoryReport(), generateEmployeeReport(), generateCustomerReport()
- 5. Point of Sale System:**
 - Attributes: employees, stocks, reports, managers
 - Operations: login(), logout(), registerEmployee(), updateEmployee(), deleteEmployee(), addStock(), updateStock(), deleteStock(), processSale(), generateSalesReport(), generateInventoryReport(), generateEmployeeReport(), generateCustomerReport()

Appendix D: User Interface Mockups

WELCOME

USERNAME

PASSWORD

DONT HAVE AN ACCOUNT? [REGISTER NOW](#)

LOGIN

WELCOME

USERNAME

PASSWORD

DON'T HAVE AN ACCOUNT? [REGISTER NOW](#)

LOGIN

WELCOME

USERNAME

PASSWORD

DON'T HAVE AN ACCOUNT? [REGISTER NOW](#)

LOGIN

WELCOME



USERNAME

PASSWORD

DON'T HAVE AN ACCOUNT? [REGISTER NOW](#)

LOGIN

WELCOME



USERNAME

CODERSHUTPH

PASSWORD

DON'T HAVE AN ACCOUNT? [REGISTER NOW](#)

LOGIN



VERIFICATION KEY

Get the verification key from ADMIN

PROCEED

Exit

VERIFICATION FORM

VERIFICATION KEY

Get the verification key from ADMIN

PROCEED

Exit

VERIFICATION FORM

VERIFICATION KEY

Get the verification key from ADMIN

PROCEED

RESET

EXIT

VERIFICATION

VERIFICATION FORM

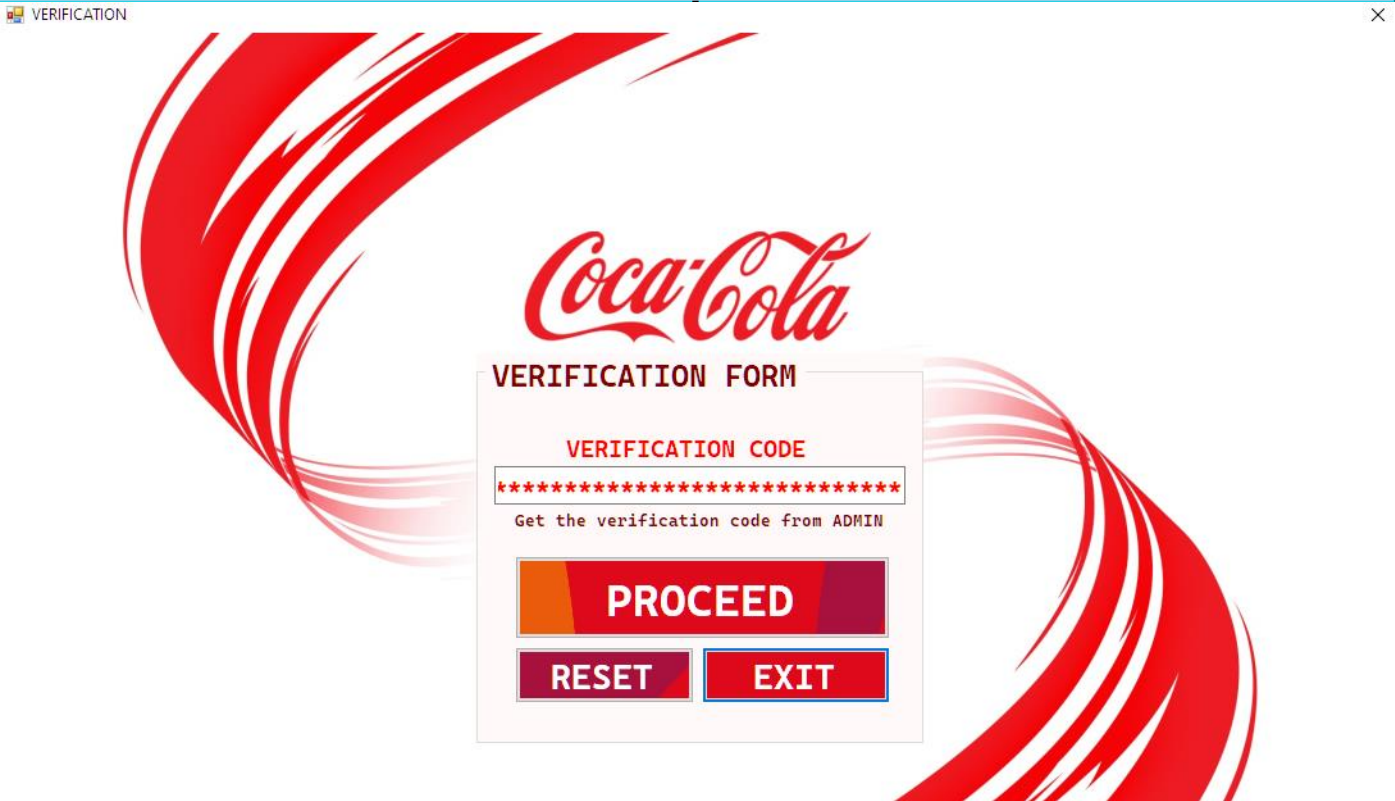
VERIFICATION KEY

Get the verification key from ADMIN

PROCEED

RESET

EXIT



REGISTRATION

File Navigation About Help

REGISTRATION FORM

BROWSE PHOTO

EMPLOYEE ID

USERNAME

PASSWORD

RETYPE PASSWORD

POSITION

PRIVILEGE

REGISTERED USERS

REGISTERED USERS

×

Exit

REGISTRATION

File

Navigation

About

Help

Type Here

Exit

New User

Save

Search

Edit

Delete

Cancel

Exit

Print

Type Here

EMPLOYEE ID

USERNAME

PASSWORD

RETYPE PASSWORD

POSITION

PRIVILEGE

REGISTERED USERS

REGISTRATION

File

Navigation

About

Help

Type Here

Exit

New User

Save

Search

Edit

Delete

Cancel

Exit

Print

Type Here

EMPLOYEE ID

USERNAME

PASSWORD

RETYPE PASSWORD

POSITION

PRIVILEGE

REGISTERED USERS

REGISTRATION

File

Navigation

About

Help

Type Here

Exit

New User

Ctrl+N

Save

Ctrl+S

Search

Ctrl+F

Edit

Ctrl+EDeleteCancelPrintExit

Type Here

EMPLOYEE ID

USERNAME

PASSWORD

RETYPE PASSWORD

POSITION

PRIVILEGE

REGISTERED USERS

REGISTRATION

×

FileNavigationAboutHelpExit

REGISTRATION FORM

BROWSE PHOTO

EMPLOYEE ID

USERNAME

PASSWORD

RETYPE PASSWORD

POSITION

PRIVILEGE

REGISTERED USERS


REGISTERED USERS

REGISTRATION

×

FileNavigationAboutHelpExit

REGISTRATION FORM



BROWSE PHOTO

EMPLOYEE ID

USERNAME

PASSWORD

RETYPE PASSWORD

POSITION

PRIVILEGE

REGISTERED USERS


REGISTERED USERS

REGISTRATION


FileNavigationAboutHelp

Exit


REGISTRATION FORM




BROWSE PHOTO


EMPLOYEE ID


CC-0001

USERNAME


CODEHUTPH

PASSWORD

RETYPE PASSWORD

POSITION

MANAGER

PRIVILEGE

ADMIN

REGISTERED USERS


REGISTERED USERS

REGISTRATION


FileNavigationAboutHelp

Exit


REGISTRATION FORM




BROWSE PHOTO


EMPLOYEE ID


CC-0002

USERNAME


NIMO

PASSWORD

RETYPE PASSWORD

POSITION

CASHIER

PRIVILEGE

USER

REGISTERED USERS

REGISTERED USERS

REGISTRATION

File


Navigation

About

Help

Exit

REGISTRATION FORM



BROWSE PHOTO

EMPLOYEE ID

USERNAME


PASSWORD

RETYPE PASSWORD

POSITION

PRIVILEGE

REGISTERED USERS



UPDATED:

WELCOME

12:17:53 am

Monday - 19 - June - 2023



USERNAME


PASSWORD

DON'T HAVE AN ACCOUNT? [REGISTER NOW](#)

LOGIN

[I HAVE FORGOTTEN MY PASSWORD](#)





REGISTRATION FORM



BROWSE
PHOTO

EMPLOYEE ID

CC-0000

USERNAME

ADMIN

PASSWORD

RETYPE PASSWORD

POSITION

HR MANAGER

PRIVILEGE

USER



REGISTERED
EMPLOYEES

Employee ID	Username	Position	Privilege
CC-0000	ADMIN	HR MANAGER	USER
CC-0001	CAP	MANAGER	ADMIN
CC-0002	IRONMAN	MANAGER	ADMIN
CC-0003	HULK	STOCKER	USER
CC-0004	JOKER	STOCKER	USER
CC-0005	THOR	CASHIER	USER
CC-0006	WOLVERINE	CASHIER	USER

ADD PRODUCT



BROWSE
PHOTO

BARCODE NO.

ITEM NAME

DESCRIPTION

QUANTITY

BUYING PRICE

SELLING PRICE

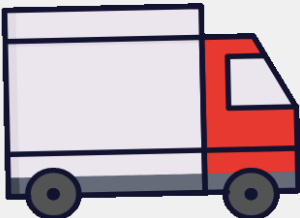
CRITICAL

OFFICIAL



PRODUCTS

	BARCODE	ITEM NAME	DESCRIPTION	QUANTITY	BUYING PRICE	SELLING PRICE	CRITICAL
▶	1000103	SPRITE	SPRITE 1.5 - 1500...	990	700	800	10
	1000201	COCA-COLA	COKE REG 8OZ - ...	500	100	180	10
	1000202	ROYAL	ROYAL 8OZ - 237...	500	100	180	10
	1000203	SPRITE	SPRITE 8OZ - 237...	500	100	180	10
	1000301	COCA-COLA	COKE REG SWAK...	500	90	130	10
	1000302	ROYAL	ROYAL SWAKTO ...	500	90	130	10
	1000303	SPRITE	SPRITE SWAKTO -...	500	90	130	10
	1000401	COCA-COLA	COKE MISMO - 29...	500	130	195	10
	1000402	ROYAL	ROYAL MISMO - 2...	500	130	195	10
	1000403	SPRITE	SPRITE MISMO - 2...	500	130	195	10
	1000501	COCA-COLA	COKE KASALO - 7...	500	250	300	10
	1000502	ROYAL	ROYAL KASALO - ...	500	250	300	10
	1000503	SPRITE	SPRITE KASALO - ...	500	250	300	10
	1000601	COCA-COLA	COKE ZERO 1.5 - ...	500	700	800	10
	1000602	COCA-COLA	COKE LIGHT 1.5 - ...	500	700	800	10
	1000603	COCA-COLA	COKE ZERO 8OZ ...	500	100	180	10
	1000604	COCA-COLA	COKE LIGHT 8OZ ...	500	100	180	10
	1000605	COCA-COLA	COKE ZERO SWA...	500	90	130	10
	1000606	COCA-COLA	COKE LIGHT SWA...	500	90	130	10
	1000607	COCA-COLA	COKE ZERO MISM...	500	130	195	10
	1000608	COCA-COLA	COKE LIGHT MIS...	500	130	195	10
	1000609	COCA-COLA	COKE ZERO IN CA...	500	630	700	10
	1000610	COCA-COLA	COKE LIGHT IN C...	500	630	700	10
	1000611	COCA-COLA	COKE REGULAR I...	500	630	700	10
	1000612	ROYAL	ROYAL TRU-ORA...	500	630	700	10
	1000613	ROYAL	ROYAL TRU-GRA...	500	630	700	10
	1000614	SPRITE	SPRITE IN CAN - 3...	500	630	700	10
	1000615	COCA-COLA	COKE JACK DANL...	500	630	700	10
	1000616	COCA-COLA	COKE VANILLA IN ...	500	630	700	10
	1000700	COCA-COLA	T-SHIRT (FREESI...	500	450	500	10
	1000701	COCA-COLA	HOODIE (FREESI...	500	670	700	10
	1000702	COCA-COLA	BASEBALL CAP	1000	350	400	10
	1000703	COCA-COLA	TUMBLER	1000	450	500	10



CASHIER

\$

CASHIER NAME:

CAP

TRANSACTION NUMBER

77909

TRANSACTION WINDOW

BARCODE

QUANTITY

SUBTOTAL

PAYMENT WINDOW

PAYMENT AMOUNT

CHANGE AMOUNT

GRAND TOTAL

BARCODE	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL

[F1] - OPEN PAYMENT WINDOW

[F12] - CLOSE CASHIER WINDOW

[ENTER] - ENTER VALUE

[ESC] - GO BACK

12 : 20 : 51 am

Monday - 19 - June - 2023

REPORTS

CRYSTAL REPORTS

EMPLOYEES

STOCKS

TRANSACTIONS

ATTENDANCE

crystal reports.

DOWNLOAD EXCEL REPORTS

EMPLOYEE HISTORY

STOCKS HISTORY

TRANSACTION HISTORY

ATTENDANCE HISTORY

Excel

EXIT

MAIN

WELCOME BACK IRONMAN

OUR DEAR MANAGER

12 : 23 : 40 am

Monday - 19 - June - 2023

EMPLOYEES

STOCKER

CASHIER

REPORTS

TASTE THE FEELING