A Project Report

On

STORE STOCK MANAGER

ABSTRACT

This project is aimed at developing a desktop-based application named “STORE STOCK MANAGER” for managing the inventory system of any organization. The STORE STOCK MANAGER (SSM) refers to the system and processes to manage the stock of organization with the involvement of Technology system. This system can be used to store the details of the inventory, stock maintenance, update the inventory based on the sales details, generate sales and inventory report daily or weekly based. This project is categorized individual aspects for the sales and inventory management system. SSM ensure quality control in businesses that handle transactions resolving around consumer goods. Without proper inventory control, a large retail store may runout of stock on an important item. A good inventory management system will alert the wholesaler when it is time to record. Inventory Management System is also on important means of automatically tracking large shipment. An automated Inventory management System helps to minimize the errors while recording the stock.

LIST OF TABLES

ABBREVATIONS

- SSM: Store Stock Manager
- HDD: Hard Disk Drive
- IDE: Integrated Development Environment
- RAM: Random Access Memory
- GUI: Graphical User Interface

Table of Contents

Chapter 1: Introduction

1.1 Project Introduction

The Store Stock Manager (SSM) is very useful for shop workers in daily life for providing instant information of stocks (items available in any store). It also stores information like the purchased date of items with price and sales date with a selling price.

This software is made and modified using the C language.

Using this software users can modify, add, delete, recall reports. It helps the user to keep their business record systematically which can be accessed anytime.

This includes managing the product in an appropriate way to review any time as per the requirement. It maintain the balance of the stock, details about the purchase and sales in the market.

1.2 Problem Statement

This SSM project provides the ability to keep the details of product and add, edit, update, delete the details easily. It also provide the feature to keep sales report and show the sales details. Hiring employees just for keeping record of stocks is not a cost effective and efficient. Using an advanced inventory management system is cheap and easy. Keeping every details of the product like manufacturer name, contact details, manufacture date, Expiry date, etc. These features were unfulfilled by existing projects which are fulfilled by this project.

1.3 Objectives

- To maintain a systematic record of inventory
- To keep record of product purchase and sales in the market.
- To cut down on product obsolescence and spoilage.
- To minimize the risks and losses incurred due to shortage of inventory

1.4 Significance of project

This project is mainly concerned with making simple project using C programming language and main significance of this project is it helps to understand the use of C programming language and use as tools to make the imagination of any person to the realities.

1.5 Project Features

- SSM checks and keeps the record of level of stock available in store and let the user know when to order new stock.
- SSM reduces paper work
- SSM keeps the record of purchased date and cost price of each item.
- SSM keeps the record of selling price and sales date of each item.
- SSM keeps the record of manufactured date to make sure that no expired items are stored in the store.
- SSM manages the overall management of the stock items in stores letting user to keep the better record of items.
- SSM saves hard work and time of user since physical inspection of stock are not necessary

1.6 Documentation Organization

The documentation is divided into six chapters under six major headings, explaining everything about the STORE STOCK MANAGER(SSM); introduction, system analysis, system design, system development and implementation and conclusion including future enhancement.

Chapter 1 briefly introduces the project “STORE STOCK MANAGER” and its features and objectives.

Chapter 2 talks about the system analysis which tells about system requirement and requirement gathering process, feasibility study.

Chapter 3 talks about system design which gives the knowledge about functions used in the program along with program algorithm, flowchart and UI/UX mechanisms

Chapter 4 talks about the system development and its implementation, covering the software and hardware specification required.

Chapter 5 brings the conclusion of this project, its limitation and the future enhancement that can be made.

Chapter 2: System Analysis

2.1 Requirement gathering process

Requirement No.	Requirement Name	Requirement description	Function Number
1.	password	To make SSM secure	1
2	display	To display the existing product	2
3	Add	To add new product detail	3
4	purchase	To make a purchase	4
5	Edit	To edit details of existing product	5
6	Zero quantity	To display products with zero quantity	6
7	Highest quantity	To display product with highest quantity	7
8	Search	To search a product detail	8
9	Order List	To maintain a systematic Order List	9
10	Sales Report	To keep record of each sale made	10
11	Employee	To keep Records of Employee	11

2.2 Feasibility Study

In a feasible study we performed feasibility analysis of a current system and the proposed system. Feasibility study is done to identify the deficiencies in the current system and find the objective of the proposed system. There are many types of study that needs to be consider but following are the major study we performed while developing this project.

2.2.1 Technical Feasibility

Here we analyze the technical aspects of the project. The various technical aspects such as hardware and software were taken into consideration while developing this project.

Further we also make sure that this software is feasible for the person who uses it.

2.2.2 Economic Feasibility

Here we deal with the cost benefit of the project. Since this project is developed to meet our academic project, therefore there is no any refund.

2.2.3 Operational Feasibility

We develop this project with the minimum specification computer so that it will go long lasting because of low cost and reliable.

The user will enjoy with this system which is easy to understand and operate by few instructions.

2.2.4 Schedule Feasibility

In this feasibility study we prepared our planned Gantt chart according to our development model.

Chapter 3: System Design

3.1 Functional Analysis

Function No.	Function Name	Function description	Requirements covered
1.	name()	To display project name and the table	Name of the project shown
2.	display()	To display manager features	Manager features shown
3.	display1()	To display staffs features	staffs features shown
4.	pass()	To change and manage passwords	Changing password
5.	Admin()	To perform manager operations	
6.	staff()	To perform staffs operations	
7.	display_product()	To display the existing product	Products details displayed
8.	New product()	To add new product detail	New product added successfully
9.	purchase()	To make a purchase	Product purchase successful
10.	Edit product()	To edit details of existing product	Details edited successfully
11.	zero_product()	To display products with zero quantity	Product with zero quantity shown

12.	Highest_product()	To display product with highest quantity	product with highest quantity shown
13.	search	To search a product detail	search a product detail shown

3.2 Algorithm

Step 1: Start

Step 2: Print “Press 1. for manager Interface 2. for Staff Interface”

Step 3: Input opt

Step 4: if opt = =1 or 2 goto step 5

Otherwise

goto step 2

Step 5: Enter the password

Step 6: Compare the password

Step 7: If password matches, goto step 8
Otherwise

Display “Incorrect password !!”

goto step 5

Step 8:

print "press:"

print "1.) Display all existing products:"

print "2.) Add new product details:"

print "3.) Search product details:"

print “4.) Edit an existing product:”

print "5.) Make a purchase:"

print "6.) Sales report:"

print "7.) Order list:"

print "8.) Delete product:"

print "9.) Display all product with zero quantity:"

print "10.) Total number of product:"

print "11.) To go back to login page"

print "12.) Exit SSM:"

Step 9: input opt

Step 10: if (opt = =1)

Display SN, ID, Name, Category, Quantity, MFG date, EXP date, Purchase date

else if (opt ==2)

Enter product id

Enter product name

Enter product category

Enter manufacture name

Enter manufacture contact number

Enter shipping company

Enter contact details

Enter max limit

else if (opt = =3)

Enter the ID or Name to search the product:

If ID matches Display all the product details

else

print product not found

else if (opt = =4)

Enter the ID or Name to Edit the product:

If ID is matched

Display

Press

0.) To Go Back to Main Menu
1.) Update product ID
2.) Update Name of the product
3.) Update Quantity
4.) Update Cost Price and sales price
5.) Update Product Category
6.) Update Manufacture Date and Expiry Date
7.) Update Purchased Date
8.) Update Manufacturer Name and contact
9.) Update Shipping Company Name and Contact
10.) All of the above
11.)Update Purchase Max Limit

Input opt

If (opt==0)

Goto step

Else if (opt==1)

Enter New ID:

Else if (opt==2)
Enter New Name:
Else if (opt==3)
Enter New quantity:

Else if (opt==4)
Display
Enter New cost price:
Enter New sales price:

Else if (opt==5)
Enter new product category:

Else if (opt==6)
Enter New manufacture date:
Enter New Expiry date:

Else if (opt==7)
Enter New purchase date:

Else if (opt==8)
new manufacturer name:
Enter new contact no. :

Else if (opt==9)
Enter new shipping company name:
Enter new contact number:

Else if (opt==10)
Enter new id:
Enter new name:
Enter new quantity:
new cost price:
Enter new sales price:
Enter new product category:
Enter new manufacture date:
Enter new expiry date:

Enter new purchased date:
Enter new manufacture name:
Enter new contact name:
Enter new shipping company name:
Enter new Contact no. :

Enter new purchase limit:

Else if (opt==11)

Enter new purchase limit:

else display product not found

else if (opt = =5)

Enter the ID or Name For Purchase :

If ID is matched

Enter quantity:

Enter Purchased Date:

Enter Manufacture Date:

Enter Expiry Date:

Enter Cost Price:

Enter sales Price:

Else display product not found

else if (opt = =6)

Display

Press

1. To make a sale
2. To view sales report
3. To edit the report

4. To highest sold product
5. To find lowest selling product
6. To find profit or loss
7. To delete a sale report

If (opt==1)

Enter quantity:
Enter sales type:
Enter discount:
Enter sales date:
Enter date (YY/MM/DD):

Else if (opt==2)

press
0.) To Go Back to Main Menu!!
1.) To view all report
2.) To view retail sales
3.) To view wholesale sales
4.) Highest sales
5.) Lowest sales
6.) Unsold Product
7.) Monthly sale
8.) Yearly sales

Else if (opt==3)

Enter sale number:

If the entered sale number is wrong

Display

Product not found

Else

Press

1. To edit quantity
2. To edit sales type
3. To edit discount
4. To edit sales date
5. To edit every details

Else if(opt==5)

Enter the sale no.

IF the sale no. is correct

Product detail successfully deleted

Else

display product not found

Else if (opt = =7)

Press

0.) To go back to main menu
1.) To view order list
2.) To make an order list
3.) To make order for new product
4.) To edit order list
5.) Delete an item in order list
6.) Total order list

If (opt==0)

Go back to main menu

Else if (opt==1)

Display ID, contact no, Name, Category, Max limit ,
Manufacturer Name , Contact no. , Shipping company

Else if (opt==2)

Display

Do You Want These Products To Be In Order List (Y/N) :

If the option is yes

Display

Product added successfully

Else

Return back to order list

Else if (opt==3)

1. How many products do you want to add:
2. Enter product ID:
3. Enter product name:
4. Enter product category:
5. Enter max purchase limit:
6. Enter manufacturer name:
7. Enter contact no.:
8. Enter manufacturer name:
9. Enter contact number:
10. Enter status:

Else if (opt==4)

Enter the ID or Name to Edit the product:

If ID is not matched
Display Product not found
Else
Display
Press

0. To go back to main menu
1. To change status
2. To edit product ID
3. To edit product name
4. To edit product category
5. To edit quantity
6. To edit manufacture Name and contact number
7. To edit shipping company and contact number
8. To edit every detail

Else if (opt==5)

Enter the sale no.

IF the sale number. is correct

Display

Product detail successfully deleted

Else

display product not found

Else if (opt = =8)

Enter the ID or Name to Delete the product:

If ID is matched

Display

Product detail deleted successfully deleted

Do You Want To Delete Another Product (Y/N):

Else

Display product not found

Else if (opt = =9)

Displays all product with zero quantity

Display

ID no. Name Cost price quantity Manufacturer contact no. Shipping company Contact no.

else if (opt ==10)

Display

Total number of products:

Else if (opt==11)

Display

Press

0. To go back to main menu
1. To add new employee
2. To display Employee Details

3. To search employee
4. To edit employee detail
5. To delete employee details

else if (opt = =12)

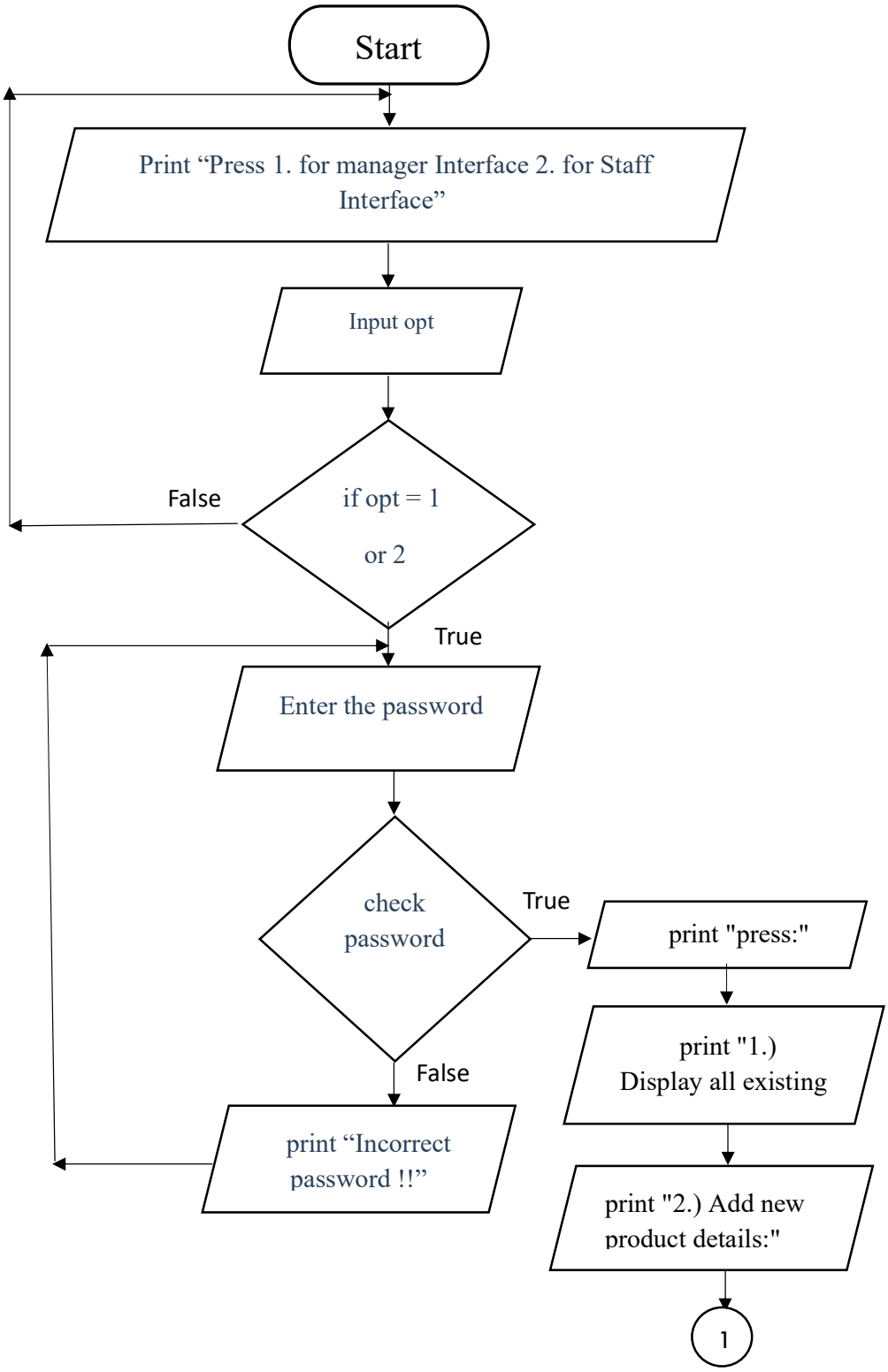
go back to the login page

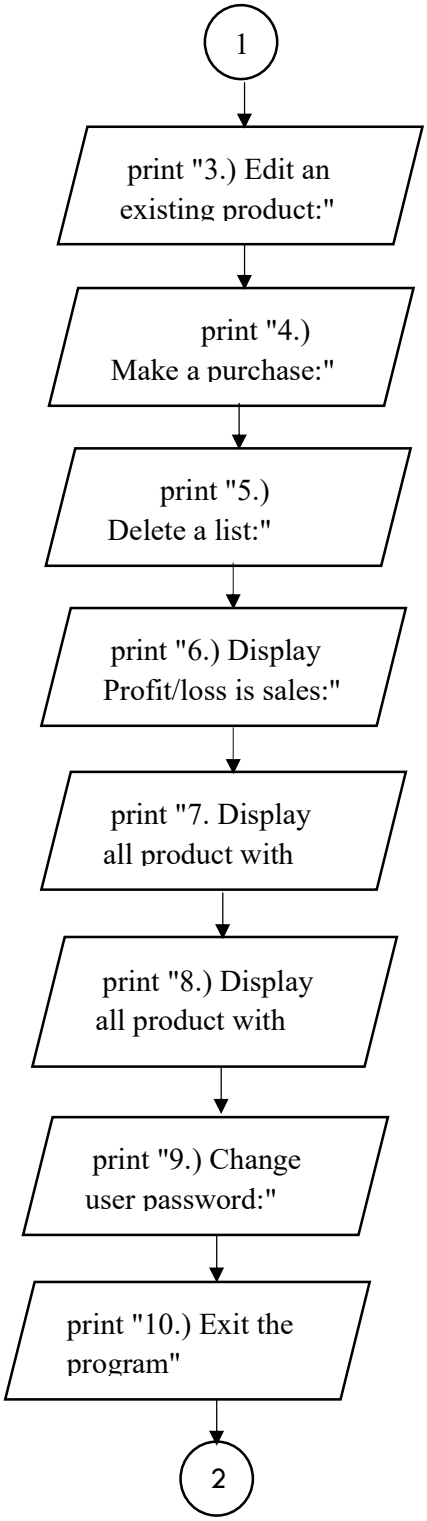
else if (opt = =0)

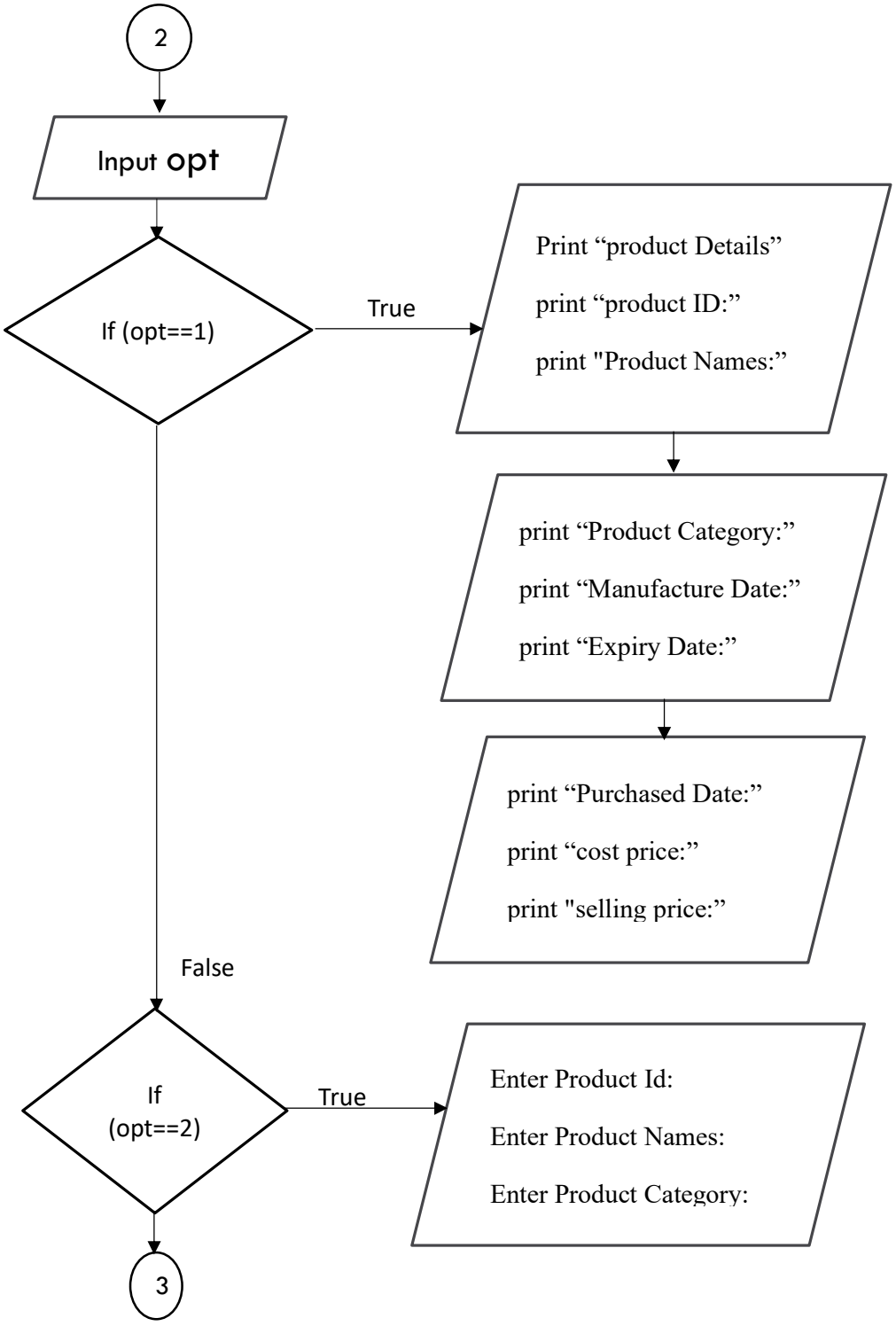
Exit the SSM

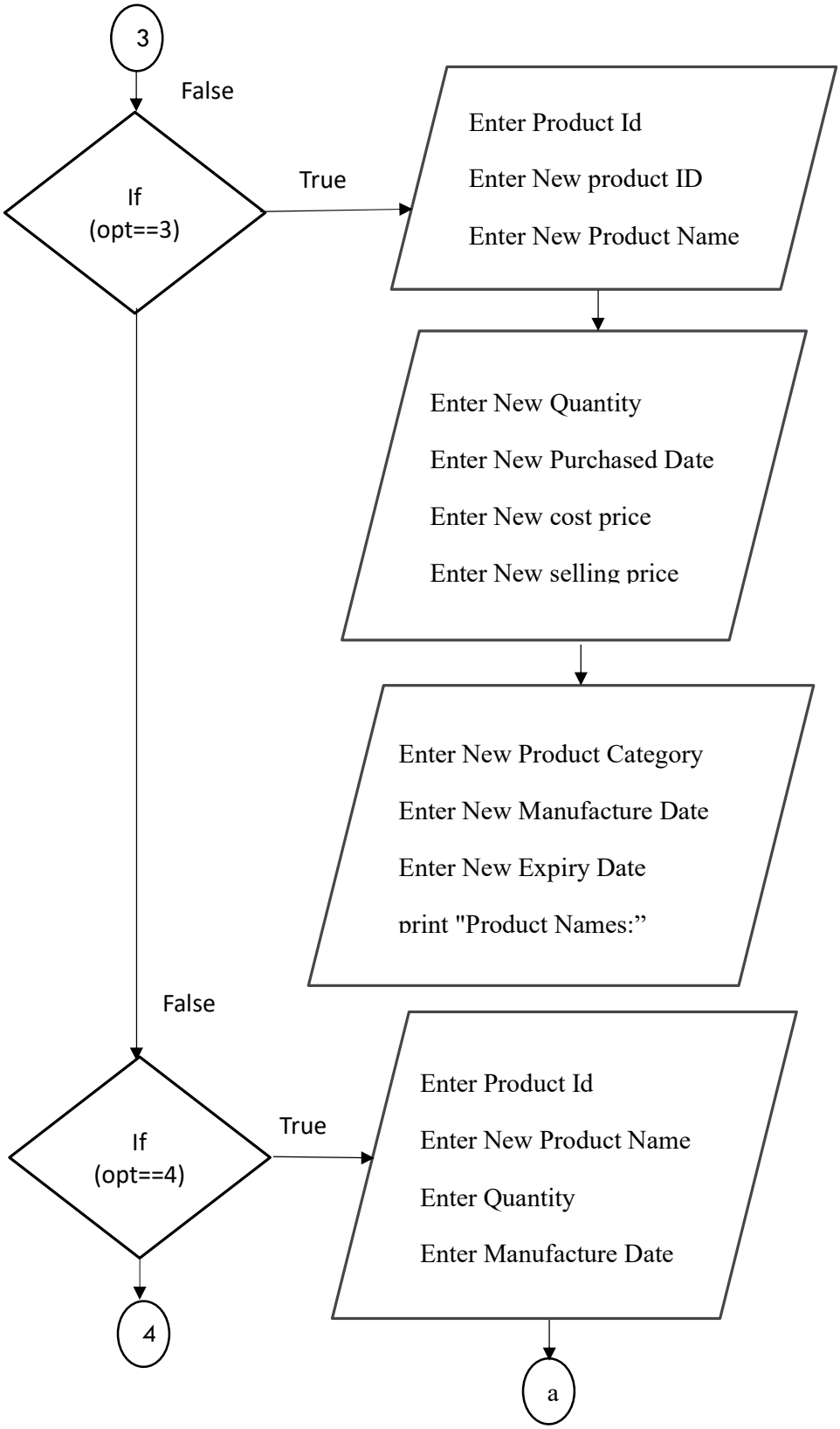
Step 11: STOP

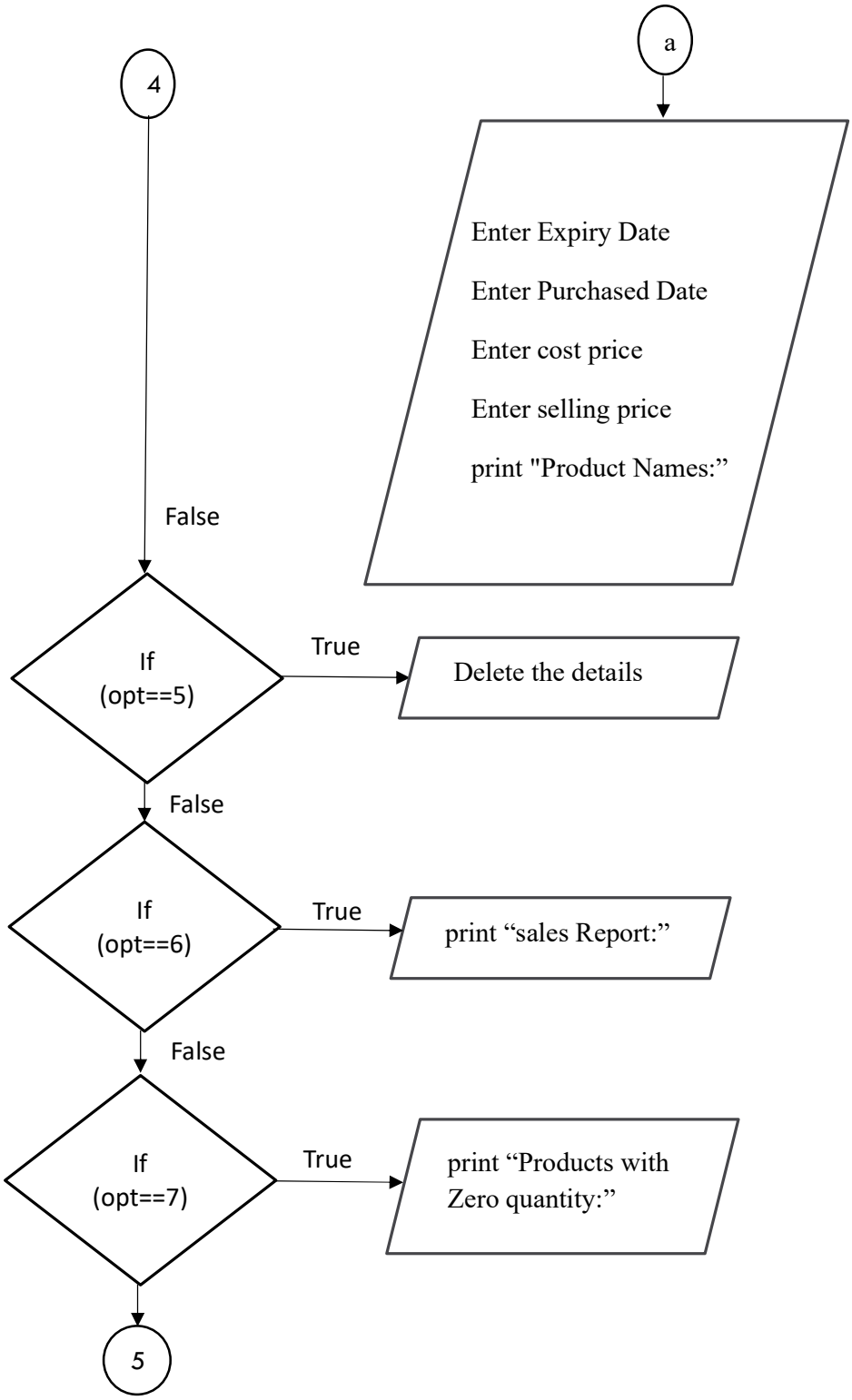
3.3 Flowchart

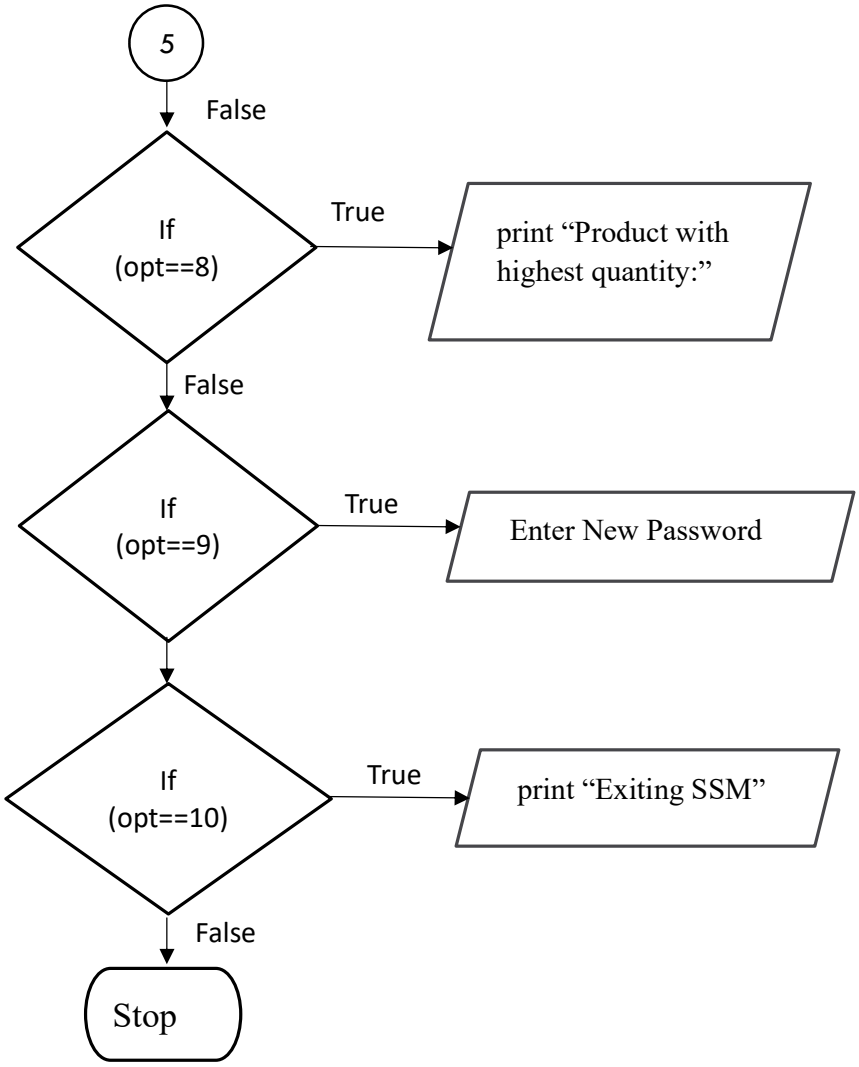



1
print "3.) Edit an existing product:"
print "4.) Make a purchase:"
print "5.) Delete a list:"
print "6.) Display Profit/loss is sales:"
print "7. Display all product with
print "8.) Display all product with
print "9.) Change user password:"
print "10.) Exit the program"
2


2
Input opt
If (opt==1)
True
Print “product Details”
print “product ID:”
print "Product Names:”
print “Product Category:”
print “Manufacture Date:”
print “Expiry Date:”
print “Purchased Date:”
print “cost price:”
print "selling price:”
False
If
(opt==2)
True
Enter Product Id:
Enter Product Names:
Enter Product Category:
3


3
False
If
(opt==3)
True
Enter Product Id
Enter New product ID
Enter New Product Name
Enter New Quantity
Enter New Purchased Date
Enter New cost price
Enter New selling price
Enter New Product Category
Enter New Manufacture Date
Enter New Expiry Date
print "Product Names:"
False
If
(opt==4)
True
Enter Product Id
Enter New Product Name
Enter Quantity
Enter Manufacture Date
4
a


a
4
Enter Expiry Date
Enter Purchased Date
Enter cost price
Enter selling price
print "Product Names:”
False
If
(opt==5)
True
Delete the details
False
If
(opt==6)
True
print “sales Report:”
False
If
(opt==7)
True
print “Products with
Zero quantity:”
5


5
False
If
(opt==8)
True
print “Product with
highest quantity:”
False
If
(opt==9)
True
Enter New Password
If
(opt==10)
True
print “Exiting SSM”
False
Stop

Chapter 4: System Development and Implementation

4.1 Programming platform (Tools & technologies used)

4.1.1 software Specification

Computer software specification we have used for development:

- Operating System: Windows 10 Operating System
- IDE: Dev C++ 5.11
- Programming Language: C

4.1.2 Hardware Specification

Computer hardware specification we have used for development:

- Processor: core-i7
- RAM: 8GB
- HDD: 1 TB

Chapter 5: Conclusion and Future Enhancement

5.1 Conclusion

To conclude, SSM is a desktop based basically suitable for small organizations, shops. It has every basic feature which are used for the small organizing a small shop or business. Our group is successful in making the application where user can update, insert and delete the item as per the requirement. This application also provides a simple sales report know the sales and purchase details. This application matches for small organizations and shops. Through it has some limitations, our group strongly believes that the implementation of this system will surely benefit the user.

5.2 Limitations

Since this is our first project it has some limitation. Due to less knowledge in particular fields and limited time we were not able to fulfill all our expectations thatwe expected we could do while the project got started. We hope this limitation are considerable. Some of the project limitations are:

- No paper printing system.
- Less user friendly (No GUI)
- Only applicable for a small shops and organizations
- This software application is able to generate only simple reports.

5.3 Future Enhancement

- Interactive user interface
- GUI based program

Reference

- Projects for Students, Inventory management system using the C language

  Engineering Projects, august 20,2014

  C Based Project - Engineering Projects (bestengineeringprojects.com)

- Zoho Inventory, I**nventory management software for growing businesses**

  Zoho Corporation Pvt. Ltd, 2021

  Zoho Inventory (microsoft.com)

- Dave L.J. Inventory Program Using C Programming Language

  YouTube, 2019

  https://www.youtube.com/watch?v=JY65fRFgeUg

- Inventory Management System Project in C

  1000 projects,2012 July 12

  Inventory Management System Project – 1000 Projects

- **Suraj G. "Inventory management system"**

  kashipara, 2021-04-09

  Free Download Inventory Management System Project in C/C++ with Source Code and Database No with Document - kashipara

APPENDIXES

Appendix 1:

1.1 Main menu

1.2 Login page

1.3 SSM menu


-----STORE STOCK MANAGER-----
22-Sep-2021 16:10
press:your password:
1.) Display all existing products:
2.) Add new product details:
3.) Edit a existing product:
4.) Make a purchase:
5.) Delete a list:
6.) Sales Report:
7.) Display all product with zero quantity:
8.) Display all product with highest quantity:
9.) Change user password:
10.) Exit SSM:
Press the option: