KAKATIYA GOVERNMENT COLLEGE, HANAMKONDA

STUDENTS' STUDY PROJECT

on

Customer Billing system

Academic Year – 2022 – 2023

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

CERTIFICATE

This is to certify that the project report entitled **"Customer billing system"** submitted to the Department of Computer Science and Applications, Kakatiya Government College, Hanamkonda and it was carried out by the following students under my guidance.

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Abstract

Customer billing system

Customer billing system deals with the automation of supermarket. This software will help salespersons in managing the various types of records pertaining to customer. The product will help the user to work in a highly effective and efficient environment. It consumes the considerable time and energy that could be utilized in the better productive activities. Apart from that, with increasing customer strength, the task of managing information of each individual customers is indeed a cumbersome task. In the manual system, there are number of inefficiencies that a salesperson face. The information retrieval is one of the foremost problems. It is very difficult to gather the overall performance reports of the customer. Large records-books have to be maintained where relevant and irrelevant information has to be stored. The automation deals with all such problems and tries to remove them in the best suitable fashion. The new system will cater to the need of the sales persons of any supermarket so that salesperson can manage the system efficiently.

1. Introduction

The customer has brought revolution in every sphere of human life, whether it is business, education field, governance, medical science etc. the computer has reduced the human workload, businesses are going global and everything is available at the click of mouse. The concept of e-shopping has been introduced and we can buy the products online and make payments through credit or debit cards.

1.1 Aim and Objectives of the project AIM:

To make software fast in processing, with good user interface so that user can change it and it should be used for a long time without error and maintenance.

Objectives

- To reduce the time for organization
- To increase efficiency and accuracy of the system
- To make the retrieval of information faster
- To make the system more feasible
- To reduce large amount of paper work

1.2 Feasibility study

Feasibility study is a process of analyzing and identifying if a problem can be solved or not solved. A feasibility study is generic in nature and can be applied to any type of project, be it for systems and software development, making an acquisition or any other project. Feasibility study is a test of the system according to its workability, impact of the organization, ability to meet user needs and effective use of the resources. Wen can test our system by different type of the feasibilities.

1. Technical feasibility

A study of resource availability that may affect the ability to achieve an acceptable system. The evaluation determines whether the technology needed for the proposed system is available or not. The interface and easy database handling.

2. Economical feasibility

In this we consider following tasks:

- The cost to conduct a full system investigation
- The cost of hardware and software for class of application being considered
- The benefit in the form of the reduced cost

Operational feasibility

In this feasibility we consider following points: In the new system we made some major changes for the staff members so that they have to be trained to use the newly added facilities. These major changes are possible and give a new era in the supermarket in production and sales management

1.3 Existing system

Many supermarkets use this type of billing system for a decade. It is also improved many times according to requirements of sellers and customers. It does the same work that is calculating the bill, gives it to the customer and maintain proper database. They are accurate in calculation and printing; they also generate records.

1.4 Proposed system

The proposed system is intended to provide the facility of automating the billing system for the supermarket. To reduce the bottlenecks of the existing system there is a need to develop a new system. The new system should concern the requirements of the customer and the sellers. This project is designed with a goal to making the existing system more informative, reliable, fast and easier. There are many reasons for the starting of the project because in the selling of items through the manual system of salespersons faces a lot of inefficiencies. It requires handling of large record books that consist of both irrelevant and important information's thus making it difficult to find out the required information as per necessity.

2 System specifications

2.1 Hardware specifications

Professor: Intel Core i5 processor

RAM: 8GB

HDD: 40GB

2.2 Software specifications

Operating system: Windows 8.1

Front-end: Visual Studio

Languages used: C++

3. Module description

There are 4 modules in this project

1) Apply Discount

2) Check the report

3) Enter the information about products

4) Calculate the bill

Module 1: Apply discount

This module is for administrator who will

1) set the discount for the products

Module 2: Check the report

This module is also for the administrator who can generate or check the report of the product and how many products are sold on particular date or in a period of time.

Module 3: Enter the information about products

This module is for data entry operator who will

1. Enter which products come in the store

2. Prices and expiry date of the product

Module -4 : Calculate the bill

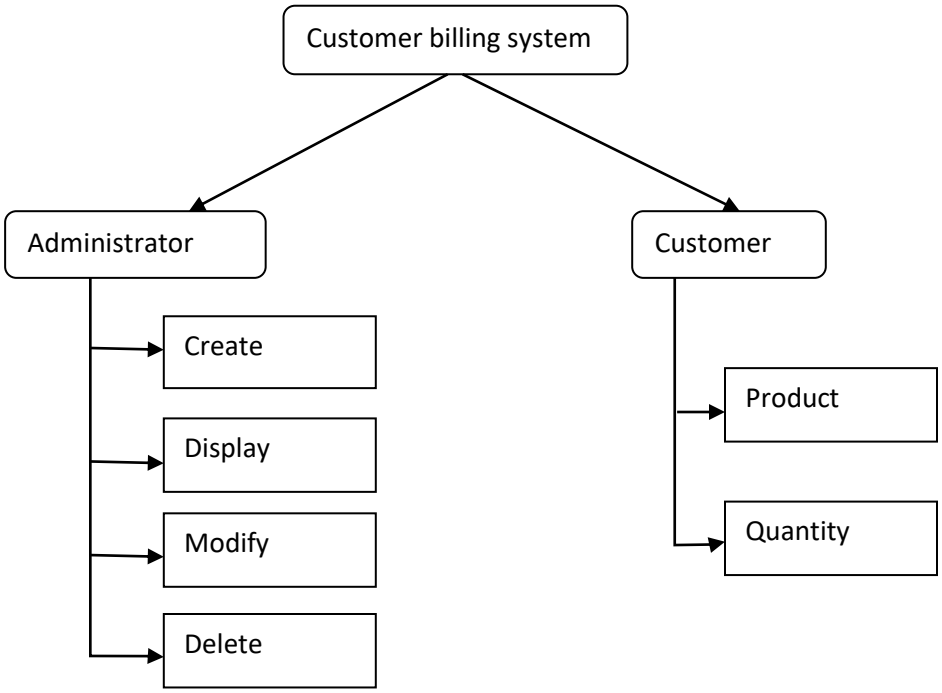
This module is for bill calculating operator who will

1. Calculate the bill

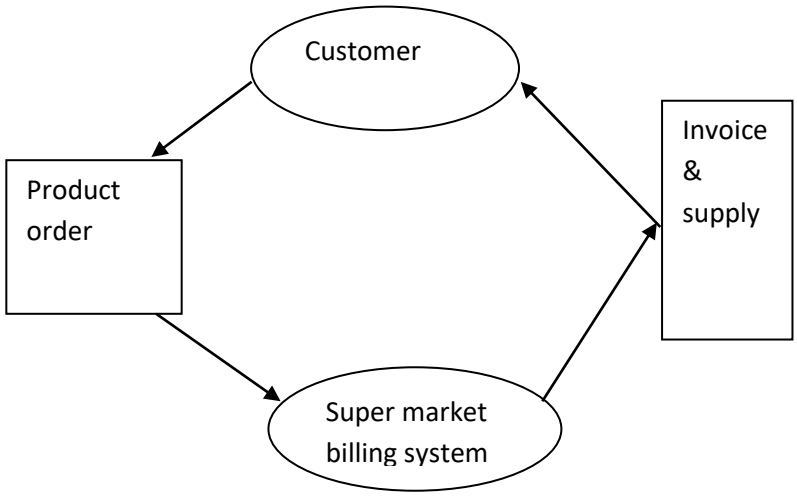
2. Print it.

4. System design

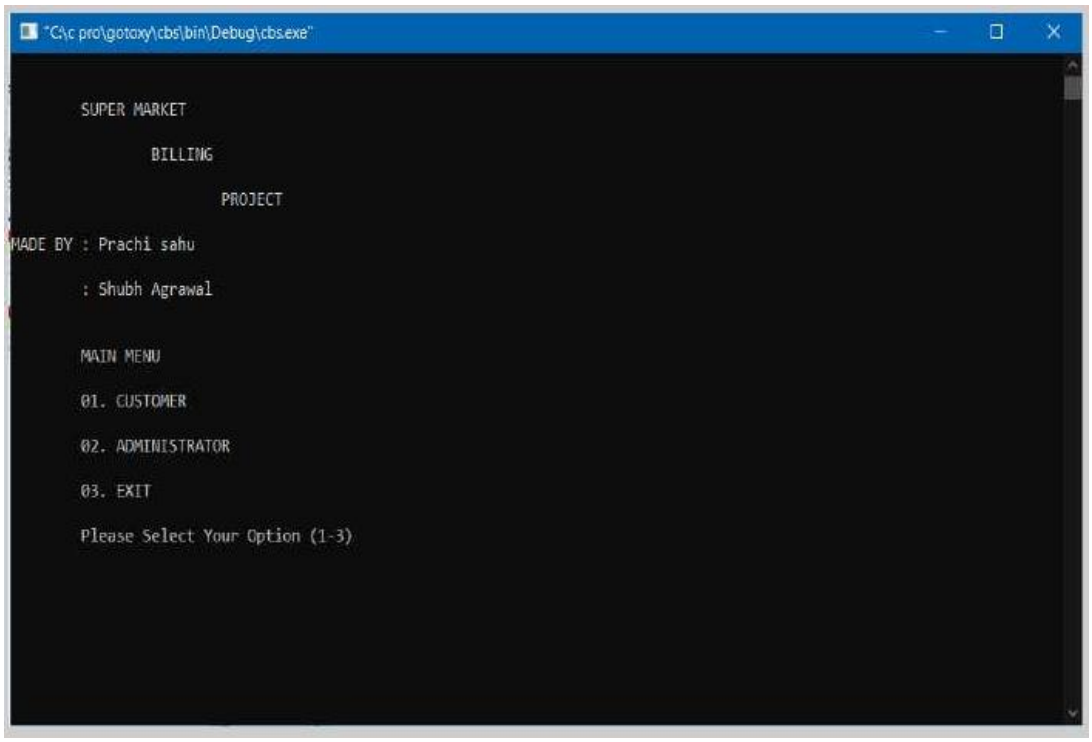
4.1 Architecture Diagram

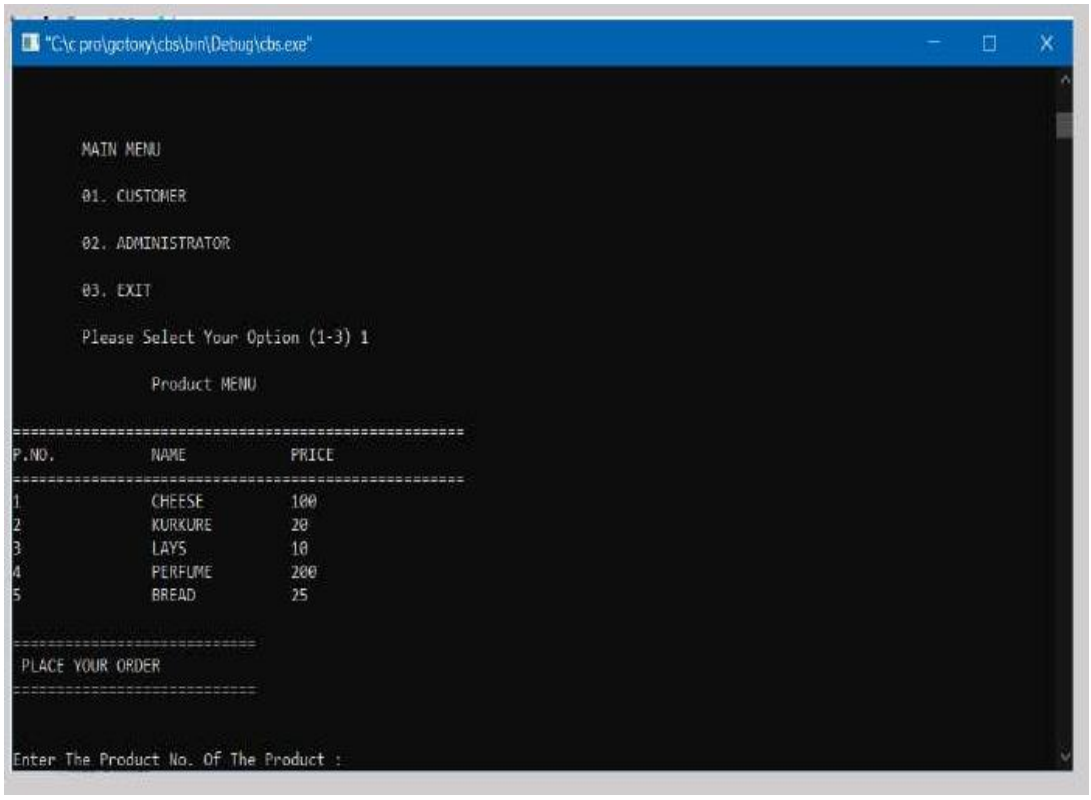


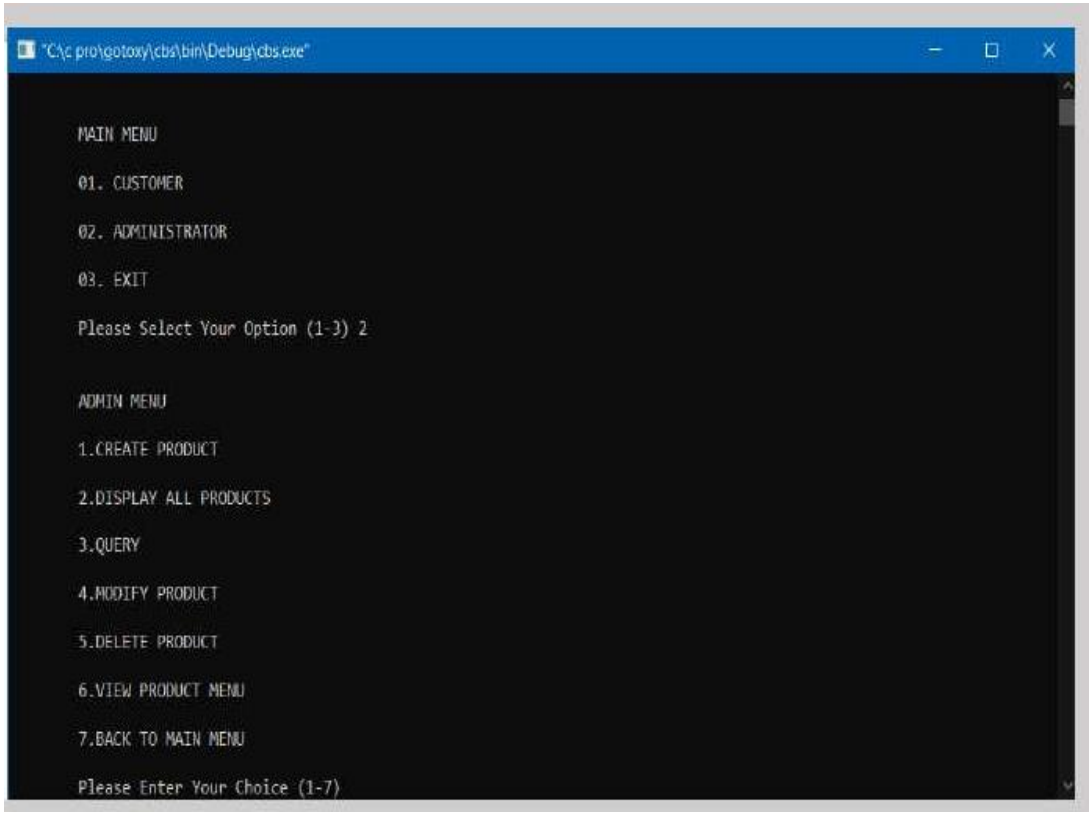
4.1 Data flow diagram



5. Screen shots



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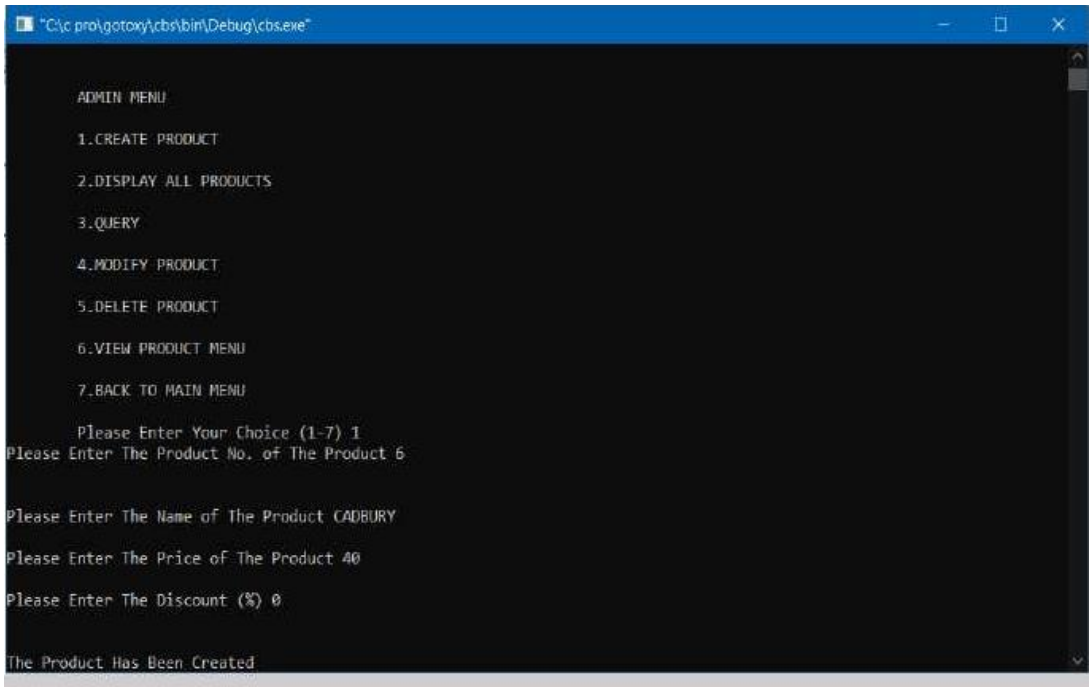
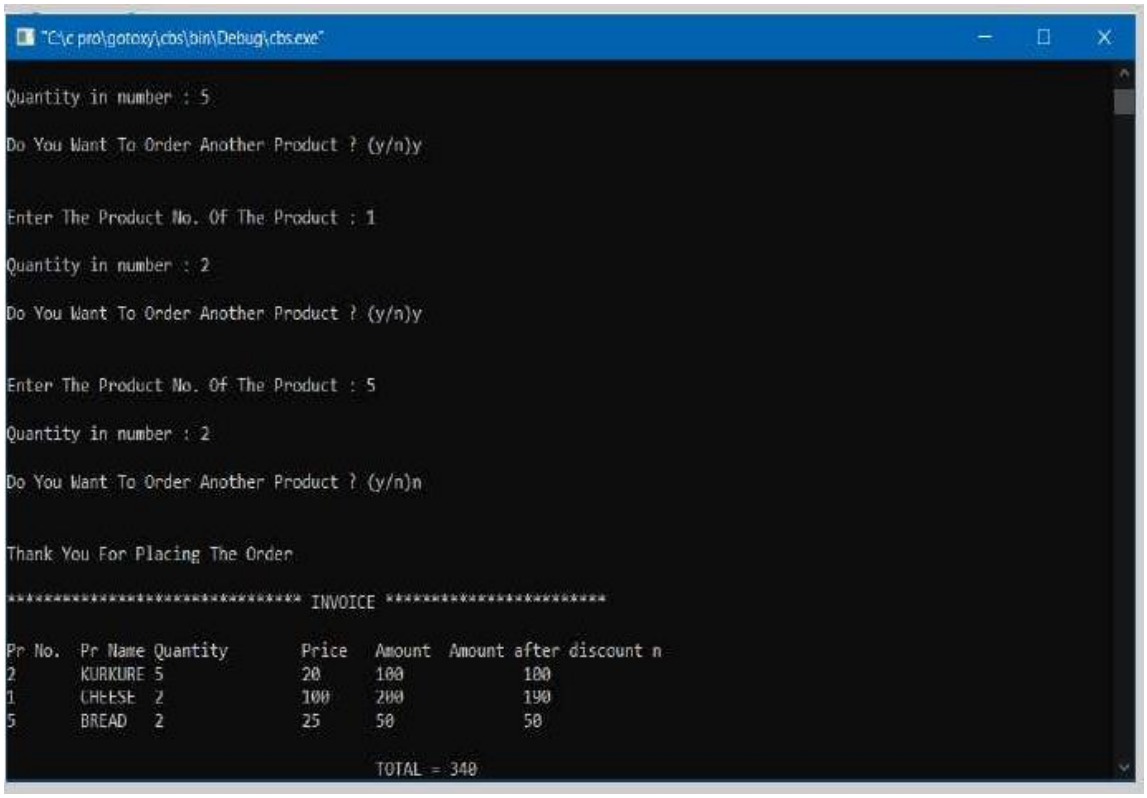
MAIN MENU
01. CUSTOMER
02. ADMINISTRATOR
03. EXIT
Please Select Your Option (1-3) 2
ADMIN MENU
1.CREATE PRODUCT
2.DISPLAY ALL PRODUCTS
3.QUERY
4.MODIFY PRODUCT
5.DELETE PRODUCT
6.VIEW PRODUCT MENU
7.BACK TO MAIN MENU
Please Enter Your Choice (1-7)


"C:\c pro\gotoxy\cbs\bin\Debug\cbs.exe"
ADMIN MENU
1.CREATE PRODUCT
2.DISPLAY ALL PRODUCTS
3.QUERY
4.MODIFY PRODUCT
5.DELETE PRODUCT
6.VIEW PRODUCT MENU
7.BACK TO MAIN MENU
Please Enter Your Choice (1-7) 1
Please Enter The Product No. of The Product 6
Please Enter The Name of The Product CADBURY
Please Enter The Price of The Product 40
Please Enter The Discount (%) 0
The Product Has Been Created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Quantity in number : 5
Do You Want To Order Another Product ? (y/n)y
Enter The Product No. Of The Product : 1
Quantity in number : 2
Do You Want To Order Another Product ? (y/n)y
Enter The Product No. Of The Product : 5
Quantity in number : 2
Do You Want To Order Another Product ? (y/n)n
Thank You For Placing The Order
********** INVOICE **********
Pr No. Pr Name Quantity Price Amount Amount after discount n
2 KURKURE 5 20 100 100
1 CHEESE 2 100 200 190
5 BREAD 2 25 50 50
TOTAL = 340

6. Conclusion

This software has been developed, designed to reduce the time taken to handle the sales activity. It is designed to replace an existing manual record system for reducing time taken for calculations and for storing data. This system has been developed with oops concepts. The system is strong to handle daily operations where the database is cleared over certain time. This system will reduce manual work. Calculations and will also provide periodic reports any time.