SYNOPSIS

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1. Title of the project:

supermarket billing algorithm.

Customer billing system

2. objective of the project:

Super Market Billing System Project is a simple console application designed to demonstrate the practical use of C programming language with data structure and its features as wells as to generate an application which can be used in any departmental store, shops, cafes etc. for billing to the customer.

You can use this application to keep the records such as name, address, mobile number, paid amount, due amount, payment date of your regular costumer. Moreover, if you have a new customer, you can add and edit the account at any time

3.project category:

The project category is window based developed in Code Blocks.
Language used

4. Language and software tool used

Language C

5. Customer Billing System Project Abstract:

User Defined Functions Used
void input()

void writefile()

void search()

void output()

The function void input() is used to add the new customer account i.e. with the help of this functions the parameters such as name, address, phone number, amount paid etc. are asked and entered. Another function void writefile() has been utilized to create a file on hard disc of computer for storing the information and data of a customer
The function void search() has been used to look for previously stored accounts either by name or by number of the customer. The fourth and the last user defined function used in this Customer Billing System Project in C is void output() which has been defined to show the result as console output.

In Customer Billing System, structure has very beautifully used to group the data type in single unit. The date variables (day, month and year) have been grouped in the structures named date where as other variables such as name, number, street, paid amount etc. are grouped under another structure named account.

6. How to use

Customer Billing System application is so simple to use. In order to use the application, click at the exe file and then, you will have three options to:

To add account

To search account

To exit
As per your need, enter 1, 2,or 3 and follow the instructions

provided by the application itself.

7. Features:
It can hold any number of accounts and account can be added to the program at any time.

The programming of simple calculations such as calculation of due amount, balance etc. havebeen embed in the code of project.

The Customer Billing System project in C gives you the facility of searching the account by two ways, either by name of the customer or by the number of customer.

The due amount to be paid is shown as negative balance.

If you have nothing to do with the program, you can directly exit from the main menu.

Smart Supermarket Billing System Using C

Listed below are the key features of this project:

- **Bill Report**: It shows the bill report of all the items added in the supermarket billing system.
- **Add, Remove or Edit items**: With this feature, you can add, remove and modify item details. In add items, you can add information or details such as item no., item name, manufacturing date, price, quantity, tax per cent, and many more.
- **Show item details**: This feature allows users to see the items and the corresponding details given for th e item while adding the items.

A-C Program which demonstrate an easy to use automated billing system
This is a mini-project which I undertook while studying in the 2nd Semester of my CSE under-graduation course. It was developed on an Ubuntu operating system and is based on the C language.

Instructions to give input:

1. Enter the date when prompted to do so.

2. Enter the code number of the product when prompted to do so and press 'enter

(The code corresponds to the serial number of the products listed on the screen).

3. Enter the quantity of the particular product bought and press 'enter'.

4. Perform steps 2 and 3 for all products being bought. 5. Press 'space' and then 'enter' when you are done.

6. Enter the amount received from the customer and press 'enter'. 7. The bill generation is complete.

Abstract

In today's era, unstaffed retail stores have become more popular in recent years and they have had a huge impact on traditional shopping habits. Unmanned retail containers play an important role in this area they can have a significant impact on the consumer shopping experience, while conventional methods based on weighing sensors are unable to detect what the customer is taking. This paper proposes a smart unstaffed retail shop scheme based on image processing, with the goal of determining if the unstaffed retail shopping style can be implemented. An end-to-end classification model trained by the method is developed for Stock Keeping Unit (SKU) counting and

recognition based on a data set of images in different scenarios containing different types of SKU and the proposed solution in this study is able to achieve counting accuracy and recognition accuracy on the test dataset, indicating that the system is efficient.

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