Software Requirement Specification (SRS)

Project: Shopping Stock Management System

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Acknowledgements

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Project Name: Shopping Stock Management System
Main Feature of C++ language used: Data File Handling

The main purpose of this project is to understand some features of C++. We used data file handling along with some other features of Object Oriented Programming.

Our project aims to create a shopping system in which we can keep track of items in the shop. Moreover the system is password protected to reduce the number of malpractices. Every time a customer buys an item the stock is altered. It handles not only management of stock but also the billing and customer information. It allots points to customers according to the amount of bill. It is also capable of keeping track of amount transacted by particular employee (user).

Product Features:
1. Login for employee.
2. To view the stock present in the supermarket.
3. Altering the stock, viz. To add new items, change current details of present items, to remove out of date items.
4. Billing.
5. Editing customer information, viz. Adding new customer, adding points to customer's profile.
6. Adding the stock sold to respective employee's account.
7. Logout for the employee.

Operating Environment:
   a. Windows
   b. Ubuntu
Intended Audience:
Mainly shopkeepers, Managers of supermarkets etc.
Project Scope:
The management of stock and billing is currently inadequate in most of the small and industries (excluding a few big companies). Nearly all records/receipts are handwritten. As a result there is a lot of scope for error as well as wastage of time. There are also chances for the shopkeepers to cheat the customers. Many times the shop owners are also cheated by their own staff. Another major difficulty is the calculation errors that arise while calculating by hand. This is indeed a very unprofessional attitude. Our software will help combat all these difficulties.

Overall Description

Project Features:

Our program has many features. It is also very user-friendly and easy to understand. It handles the stocks and also manages sales. The following are the main features:

(i) Our program basically keeps a record of the number of items of a particular kind in the shop and adjusts this number depending on whether the object is sold or purchased.

(ii) It maintains a daily record of the transactions made by different users/staff at billing counters.

(iii) For regular customers there is an option to open a customer account so that they can avail of special discounts and offers.

Users:

The user for this software is the person who is standing at the billing counter of the shop/supermarket. He/She will be provided with a special ID. He/She will be able to use the system only after logging in with the provided ID. The user for this software is the person who is standing at the billing counter of the shop/supermarket. He/She will be provided with a special ID. He/She will be able to use the system only after logging in with the provided ID.

Assumptions and dependence:

The person must know the names of all the products sold in the shop. He must also have a sound knowledge about the functioning of the shop.

Platform:

Our entire programme is created in "Code :: Blocks 13.12" with GNU GCC compiler.

References:

1. CS 101 Tutorials by Dr. D.B. Phatak and Professor S. Chakraborty, IIT BOMBAY
   http://www.cse.iitb.ac.in/~cs101/lectures-slides

2. An Introduction to Programming through C++, McGraw Hill Education, 2014, by Prof. Abhiram Ranade.

3. Buckys C++ Tutorials-
   https://www.youtube.com/channel/UCJbPGzawDH1njbqV-D5HqKw