FUNDAMENTAL OF PROGRAMMING (THEORY)

PROJECT REPORT

ON

PHARMACY MANAGEMENT SYSTEM

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INTRODUCTION

Our project is about PHARMACY MANAGEMENT SYSTEM. This project will facilitate people by selling them medicines and store their records in their personal profile and maintain stocks for the pharmacy store owners.

The user of the system is store owner and he will facilitate the customer. This application will make it easy for the people to order medicine and check if the medicine is available or not. It will also help store owner with managing stocks of medicines.

OBJECTIVES:

- Pharmacy Management System that keeps all records of medicines and customer saved.
- An easy way to find any record by simply entering name of customer and medicines.
- Can maintain the data of customer or medicines.
- Other important functions, such as listing, searching, deleting, adding data to the system, are made easier by using this program.
- The bill will be auto-generated and calculated.
- 15% discount will be given to those customers who are already present in the record.
- System will also help user to identify whether the medicine is present in stock or not with its quantity.

KEY FEATURES:

- User:
    - Store owner

- Customer Records:
    - Add customer records
    - Search customer records
    - Modify customer records
    - Delete customer records
    - View customer record

- Medicine stock Management
    - Add stock
    - Search stock
    - Modify stock
    - Delete stock
    - View stock

- Generate bills

Motivation:

The motivation behind the idea is that now a days everything in automated therefore the need of pharmacy system is required to speed up the working of the system with higher accuracy and efficiency. This will be highly beneficial for storing customer's data and inventory of medicines as the system will help user to identify if the medicines is available in stock or not.

CHALLENGES AND LIMITATIONS WHILE DEVELOPING PROJECT

Initially, while deciding the flow about how to program will process, we had hard time to find what functions must be included to make our program more efficient keeping in mind the requirement of the pharmacy store. After deciding the flow we headed toward the programming and starting implementing different logics in order to make our program more efficient. Then implementing logics we started coding but were getting many bugs. To solve this we debug our program. We added some validations and duplications checker in our program which was the requirement of our objective. We then added filing in the code in order to use our functionalities which we created for required data. Filing was challenging for us as it was having errors when storing and retrieving data. But somehow after some research we sorted them out. We then worked with the design of program as we tried to create the user friendly interface which looks easy to understand and more presentable for a new user. On the other hand there are certain limitations as the database of pharmacy would be a lot in future but the memory is limited so this will slow down the processing if a thousands of data will be stored. This can be solved by connected our project with DBMS or any other database where the data will be fetched.

SCOPE OF PROJECT

For pharmacists, this project can enable the storage of structured customer records which can be accessed and modified. This will also help the user to store the record of medicines and their availability. The data will be more sorted as easy to access. The medicines stock can also be monitored using this. The accuracy and efficiency would be greater than the old manual system used. This will be faster in calculating and producing bills. The bills will be generated automatically in order to speed up the working of system. The user does not need to go through multiple files and spreadsheets to get the information about a person or medicine, saving a considerable amount of time at their end.

TOOLS AND TECHNIQUES

The language used will be C and for IDE Dev-C++ will primarily be used. Filing will be used in order to store and retrieve the data. We will use functions, pass by reference, loops, conditions, pointers, structures, arrays and filing where needed.

CONCLUSION

Overall, the project has achieved its objectives. This reduces time consumption while keeping many customer and medicines record. We have tried to find ways to optimize and improve our project to test and learn more, and we have certainly been able to improve our C programming skills. The concept of our project was to save time and digitalize the whole system rather than using paper base system to track records of medicines and patients. This would have a great impact in future as the data will be more sorted and easy to fetch whenever needed. Moreover, our program is more secure as it requires username and password to access data.

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