KANTIPUR ENGINEERING COLLEGE

(Affiliated to Tribhuvan University)

Dhapakhel, Lalitpur

[Subject Code: CT401]

C PROGRAMMING PROJECT PROPOSAL ON

"HOTEL MANAGEMENT SYSTEM"

Submitted by

Nishan Pathak	KAN078BCT050
Prabin Acharya	KAN078BCT054
Ranish Ghimire	KAN078BCT064
Roshan Pandey	KAN078BCT067

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Abstract

This project was made with the intention of helping out the hotel employees. The project mainly focuses on the hotel management aspect for administration and employee's side.

The process of writing the logs for the hotel is completely manual. There are many problems in this system, the work is manual, the logs an easily be misplaced if water is spilled on the logs the logs are completely damaged and there will be problem for profit loss calculation as the logs are damaged.

The project focuses on digitizing the process of taking logs, taking employee details. If the process is digitized then there will be no problem of storage and the work load on employees will be decrease and the calculation will be easy for profit loss calculation.

Description

Introduction

A Hotel is a location where guests can check-in in the room for the time they have paid, sleep do anything in the room, in a hotel-room we can do various things like reading, doing tasks and you can also enter the virtual meeting if you have an emergency

In hotel there are mainly two types of people they are administration and employees. The administration side takes care of the employees and the employee side take care of the guests. The records are kept in the logs and the administration needs to see them from time to time the employees need to check in and check out the people and service the room, if guest checks-out we have to give them the bill for the stay.

Objectives

Develop a system that can replace the manual hotel managing system.

Develop a database which stores employee details & guest details. Give reliable search facility for the users.

Administrator and Employees should have separate logins. Create an easy to understand user friendly environment.

Administrator can employee information and manage them and see the guest log and see profit /loss of hotel.

Project Features

An Administrator can add or fire the employees

Check-in and Check-out the Guests

Can View the Logs of Guests

Close the Program if Password is invalid for more than 5 Times

Displays Bill to the costumer while checking out.
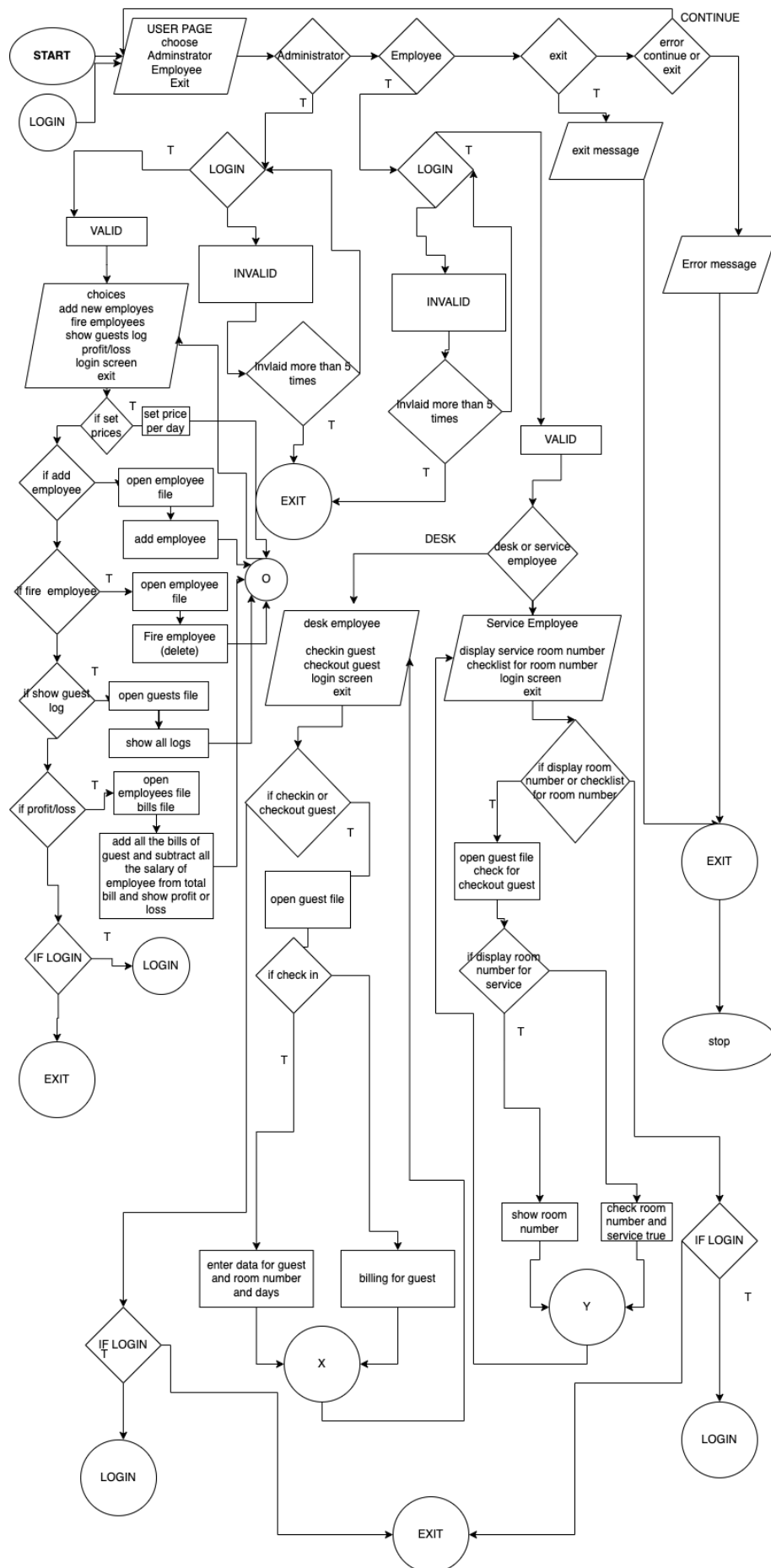
Show the Profit or loss of hotel

Applications

The project we developed can be used in the hotel by the desk side employees, service side employees and the administration side. It can be used to see the past bills and make it easy for calculation of profit and loss

Methodology

The source code for this project is based on c programming language. We used Libraries like stdio.h ,stdlib.h ,ctype.h , time.h, string.h etc. For this project First when we start, he programs we are taken to a main page/login page where we are to choose the type of user we are after we choose the user, we are prompted for the login page of respective type and if the login is verified then we will go to our respective pages but if the login is not verified then we can try again for 5 times but after five times the program closes.

For administration page there are options to add new employee ,fire an employee show the guest log and exit if we chose the first two options for adding and firing, we open a file named employees in which we can add new employees or search for the employee to be fired. If we choose the third option, we open a file named guest from which we can see the logs of the people staying there also we can see the profit and loss of the hotel by adding all the bills and subtracting all the salary of employee form the total.

For employee we kept two types of employees, service employees and desk employees the service employees the service employees can see the room number to be serviced and check the ones that have been serviced. The desk employees can check-in and check-out he guests and edit them by opening the guest file.

```
START
LOGIN

USER PAGE
choose
Adminstrator
Employee
Exit

Administrator    Employee    exit    error continue or exit    CONTINUE
      T              T          T

                                              exit message

LOGIN                    LOGIN
  T                        T

VALID        INVALID              INVALID          Error message

choices
add new employes
fire employees          Invlaid more than 5 times    Invlaid more than 5 times
show guests log
profit/loss                              T                      T
login screen
exit

if set prices    set price per day                 EXIT    VALID

if add employee    open employee file                    desk or service employee

                 add employee                    DESK

if fire employee    open employee file        desk employee            Service Employee
  T                                            checkin guest            display service room number
                 Fire employee (delete)    O   checkout guest          checklist for room number
                                               login screen             login screen
if show guest log    open guests file            exit                  exit

                 show all logs

if profit/loss    open employees file          if checkin or           if display room number or checklist
  T               bills file                    checkout guest   T      for room number
                 add all the bills of                                                    T
                 guest and subtract all         open guest file         open guest file
                 the salary of                                          check for checkout guest
                 employee from total
                 bill and show profit or        if check in             if display room number for service
IF LOGIN    LOGIN   loss                                                      T
  T
                                                                                              EXIT
EXIT

                                                                        show room number   check room number and service true

                                                                                                        IF LOGIN
                         enter data for guest    billing for guest           Y                            T
                         and room number
IF LOGIN                 and days                                                                        LOGIN
  T
                                     X
LOGIN

                                              EXIT

                                                                                            stop
```

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Conclusion

After we have completed the project we are sure the problems in the existing system would overcome the "HOTELMANAGEMENT SYSTEM" process made computerised to reduce human errors and to increase the efficiency. The main focus of this project is to lessen human efforts using the computer technology.

The employees have their own unique Login and password and they can manage the guests from their computer. Our main aim in this project is to reduce the burden on both employees and administration and to completely digitize the process.