

# North South University

Department of Electrical and Computer Engineering

# Lab Project Report

Semester : NSU Fall 2022

Course Code : CSE 115L

Section : 12
Group Name : B8

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Project Topic : Hotel Booking System

GitHub Repo Link :

https://github.com/AkramHossainApu/CSE115L B8 Project

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# Short intro of each operation

Welcome: This will show you a welcome message with hotel info.

Login: You have to enter username and pass to access the manu.

Menu: You can add, view, delete, search, edit customer's data.

AddCustomer: You can add new customer's data from here.

PrintInvoice: This will show your added customer's invoice.

ViewRecord: You can view all the customer's data from here.

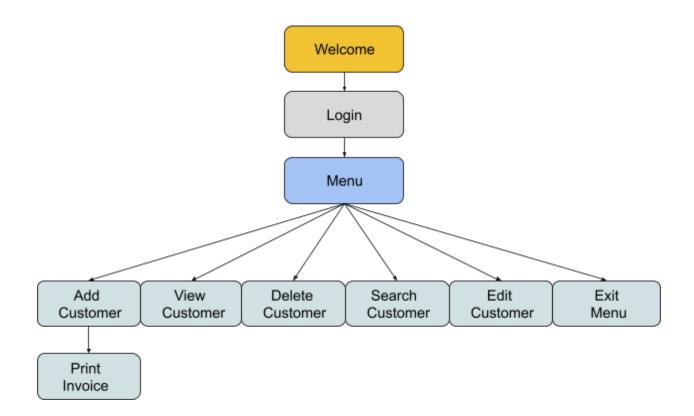
DeleteCustomer: You can delete a customer's data from here.

SearchCustomer: You can search customer's data from here.

EditCustomer: You can edit customer's data from here.

ExitMenu: You can exit from the menu by pressing this.

# Flow Chart



## Coding

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <conio.h>
#include <unistd.h>
void printWelcome();
void checkLogin();
void showMenu();
void addCustomer();
void printInvoice();
void deleteCustomer();
void viewRecord();
void searchCustomer();
void editCustomer();
void exitMenu();
struct customer details {
    char room type[20];
    char room no[10];
    char name[50];
    char address[50];
    char phn no[15];
    char email[30];
    char period[5];
    char arrival date[10];
}serial;
int main() {
    int menu;
    printWelcome();
    checkLogin();
    menu:
    showMenu();
    while(1) {
        menu = getch();
        system("cls");
        switch (menu) {
            case '1':
                addCustomer();
                break;
            case '2':
                viewRecord();
```

```
break;
          case '3':
             deleteCustomer();
             break;
          case '4':
             searchCustomer();
             break;
          case '5':
             editCustomer();
             break;
          case '6':
             exitMenu();
             break;
          default:
                  printf("\n\n\n\n\t\t\t\t Incorrect
Input");
             printf("\n\n\t\t\t\t\t
Enter again");
              sleep(1);
              system("cls");
              goto menu;
   return 0;
void printWelcome() {
   printf("\n\n\n\n\n");
                                                printf("\t
----.\n");
   printf("\t
|\n");
   printf("\t | WW
                                 WW EEEEEE LL CCCCCC
000000 MM
              MM EEEEEEE |\n");
    printf("\t | WW
                                   WW
                                     {
m EE} \qquad \qquad {
m LL}
                                                      CC
    OO MM MM MM MM EE
00
                          |\n");
    printf("\t | WW
                           WM
                                 WW
                                      EEEEE
                                              _{
m LL}
                                                      CC
    OO MM MM MM EEEEE
                          |\n");
00
    printf("\t |
                     WW WW WW EE
                                               LL
                                                      CC
               MM EE
    OO MM
                          |\n");
00
    printf("\t
               WW
                                 EEEEEEE LLLLLL CCCCCCC
                             WW
000000 MM MM EEEEEEE |\n");
    printf("\t
| \n" \rangle;
    printf("\t
----'\n");
```

```
sleep(1);
    system("cls");
    printf("\n\n\n");
   printf("\t\t\t\t
    printf("\t\t\t
                                                 | \n" \rangle;
    printf("\t\t\t
                                                 | \n" \rangle;
    printf("\t\t\t\t
                             | HOTEL ELITE |
                                                 |\n");
    printf("\t\t\t
                             1______
                                                 | \n" \rangle;
    printf("\t\t\t
                                                 | \n" \rangle;
    printf("\t\t\t\t
                                                  | \n");
    printf("\t\t\t\t
                          Brought To You By
                                                 |\n");
    printf("\t\t\t
                                                 | \n" \rangle;
    printf("\t\t\t
                      | Akram Hossain Apu Khan |\n");
    printf("\t\t\t
                              Kazim Hasan
                                                 | \n" \rangle;
    printf("\t\t\t
                               Abrar Fayaz
                                                 |\n");
    printf("\t\t\t
                       '----'\n");
    sleep(2);
    system("cls");
}
void checkLogin() {
   int i;
   char name[100], pass[50], c;
   printf("\n\n\n");
        printf("\n\t\t\t\t
                                       - Enter Username
    \n\t\t\t\t\t\t
   gets(name);
           printf("\n\t\t\t\t
                                                      -Enter
Password- \n \times t \times t \times t;
   gets(pass);
   if(strcmp(name, "user") != 0 && strcmp(pass, "pass") != 0) {
            printf("\n\n\t\t\t\t !!Incorrect Username and
Password!!\n\n\n");
            printf("\n\t\t\t
Press any key to enter
again\n\t\t\t\t\t");
       getch();
       system("cls");
       goto jump;
    }else if(strcmp(name, "user") != 0 && strcmp(pass, "pass") ==
0) {
       printf("\n\n\n\t\t\t\t !!Incorrect Username!!\n\n\n");
            printf("\n\t\t\t
                               Press any key to enter
again\n\t\t\t\t\t");
       getch();
       system("cls");
```

```
goto jump;
   }else if((strcmp(name, "user") == 0 && strcmp(pass, "pass") !=
0)) {
       printf("\n\n\t\t\t\t !!Incorrect Password!!\n\n\n");
            printf("\n\t\t\t\
Press any key to enter
again\n\t\t\t\t\");
       getch();
       system("cls");
       goto jump;
   }else {
       system("cls");
}
void showMenu() {
    printf("
MENU | -
                                              \n\n'');
   printf("\n\t\t\t\ 1 -> Book a room");
   printf("\n\t\t\t\t -----");
   printf("\n\t\t\t\ 2 -> View Customers Record");
printf("\n\t\t\t\ -----");
printf("\n\t\t\t 3 -> Delete a Customer From the
Record");
                                              printf("\n\t\t\t
-----");
                       4 -> Search a Customer From the
    printf("\n\t\t\t
Record");
                                             printf("\n\t\t\t
-----");
   printf("\n\t\t\t\ 5 -> Edit a Customer's Data");
printf("\n\t\t\t\ -----");
   printf("\n\t\t\t\t\
printf("\n\t\t\t\t\
-----\n\n");
                          -|Please enter your choice from the
    printf("\n\t\t
menu|- \n\t\t\t\t");
void addCustomer() {
    FILE *f;
    char roomtype[20], roomnumber[10], check;
    f = fopen("customerData.txt", "a+");
    if(f == NULL) {
        printf("\n\n\n\n\n\n\t\t\t
                                                     !!Sorry,
Something went wrong!!");
        sleep(1);
    }else {
```

```
printf("\n\t\t\t\t.----.");
       printf("\n\t\t\t\t|Enter Customer's Details|");
       printf("\n\t\t\t\t\t'----'\n");
       printf("\n Enter Room type(AC/NON-AC):");
       gets(roomtype);
       fflush (stdin);
       printf("----");
       printf("\n Enter Room number:");
       gets(roomnumber);
       fflush (stdin);
       printf("----");
       while(fread(&serial, sizeof(serial), 1, f)) {
           if(strcmp(serial.room no,roomnumber) == 0) {
                printf("\n\n\t\t\t !!Sorry, The room is
already booked!!");
                printf("\n\n\t\t\tPress Escape to go back to
menu or any other key to fill up again");
              check = getch();
              if(check == 27){
                  fclose(f);
                  goto end;
              }else {
                  system("cls");
                  fclose(f);
                  goto jump;
          }
       strcpy(serial.room type, roomtype);
       strcpy(serial.room no, roomnumber);
       printf("\n Enter Name:");
       gets(serial.name);
       fflush(stdin);
       printf("----");
       printf("\n Enter Address:");
       gets(serial.address);
       fflush(stdin);
       printf("----");
       printf("\n Enter Phone Number:");
       gets(serial.phn no);
       fflush(stdin);
       printf("----");
       printf("\n Enter Email:");
       gets(serial.email);
       fflush(stdin);
       printf("----");
       printf("\n Enter Period('x'days):");
```

```
gets(serial.period);
      fflush(stdin);
      printf("----");
      printf("\n Enter Arrival date(dd\\mm\\yyyy):");
      gets(serial.arrival date);
      fflush(stdin);
      printf("----");
      fwrite(&serial, sizeof(serial), 1, f);
      fflush(stdin);
          printf("\n\n\t\t\t\ !!Your Room is successfully
booked!!\n");
      fclose(f);
      getch();
      printInvoice();
    }
    end:
    system("cls");
    showMenu();
}
void printInvoice() {
   FILE *f;
   f = fopen("customerData.txt", "r");
   while(fread(&serial, sizeof(serial), 1, f)) {
      system("cls");
      printf("\t\t\t\t\
t.----.\n");
      printf("\t\t\t\t | HOTEL ELITE |\n");
printf(".-----
            -----\n|");
      printf("\t\t\t\t\t\t|Invoice|\n|");
      printf("\t\t\t\t\t\t\t'----'\n|");
      printf("\n| Room type: %s\n|", serial.room type);
      printf("\n| Room number: %s\n|", serial.room no);
      printf("\n| Name: %s\n|", serial.name);
      printf("\n| Address: %s\n|", serial.address);
      printf("\n| Phone Number: %s\n|", serial.phn no);
      printf("\n| Email: %s\n|", serial.email);
      printf("\n| Period: %s", serial.period);
       printf("\t\t\t*Press any key to print the invoice and
go back to menu*\n|");
      printf("\n| Arrival date: %s\n", serial.arrival date);
printf("'-----
     -----");
```

```
fclose(f);
   getch();
   system("cls");
}
void viewRecord() {
   FILE *f;
   f = fopen("customerData.txt", "r");
    if(f == NULL) {
        printf("\n\n\n\n\n\t\t\t!!Sorry, There are no
customers!!");
       sleep(1);
    }else {
       int i = 1;
       while(fread(&serial, sizeof(serial), 1, f)) {
              printf("\n\t\t\t) - |Customer %d data| - \n\n",
i);
           printf("\n Room type: %s", serial.room type);
           printf("\n----");
           printf("\n Room number: %s", serial.room no);
           printf("\n----");
           printf("\n Name: %s", serial.name);
           printf("\n----");
           printf("\n Address: %s", serial.address);
           printf("\n----");
           printf("\n Phone Number: %s", serial.phn no);
           printf("\n----");
           printf("\n Email: %s", serial.email);
           printf("\n----");
           printf("\n Period: %s", serial.period);
           printf("\n----");
           printf("\n Arrival date: %s", serial.arrival date);
           printf("\n----");
              printf("\n\t\t\t
Press any key to go back to
menu");
           i++;
       fclose(f);
       getch();
    system("cls");
    showMenu();
}
void deleteCustomer() {
```

```
FILE *f, *t;
    char roomnumber[20];
    int isFound = 0;
    f = fopen("customerData.txt", "r");
    t = fopen("temp.txt", "a+");
    if(f == NULL) {
       printf("\n\n\n\n\n\t\t\t !!Sorry, there are no
customers!!");
       sleep(1);
   }else if(t == NULL) {
         printf("\n\n\n\n\n\n\n\t\t\t\t
!!Sorry, Something
went wrong!!");
         sleep(1);
   }else {
       printf("\n\t\t\t Enter room number of the customer");
                                            printf("\n\t\t\t\t
----\n\t\t\t\t
                                                  ");
       gets(roomnumber);
       fflush(stdin);
       while(fread(&serial, sizeof(serial), 1, f)) {
           if(strcmp(serial.room no,roomnumber) == 0) {
               isFound = 1;
           }else {
              fwrite(&serial, sizeof(serial), 1, t);
       if(isFound == 1) {
              printf("\n\n\n\t\t !!The Customer is
successfully removed!!");
            printf("\n\n\n\t\t\t
Press any key to go back
to menu\n\t\t\t\t\t\t
");
       }else {
            printf("\n\n\n\n\t\t\t!!There is no customer in
this room!!");
            printf("\n\n\n\t\t\t\
Press any key to go back
to menu\n\t\t\t\t\t\t\");
       fclose(f);
       fclose(t);
       remove("customerData.txt");
       rename("temp.txt", "customerData.txt");
       getch();
    system("cls");
```

```
showMenu();
void searchCustomer() {
   FILE *f;
   char roomnumber[10];
   int is Found = 0;
   f = fopen("customerData.txt", "r+");
   if(f == NULL) {
        printf("\n\n\n\n\n\t\t\t !!Sorry, there are no
customers!!");
       sleep(1);
   }else {
       printf("\n\t\t\t Enter room number of the customer");
                                           printf("\n\t\t\t\t
-----\n\t\t\t\t
                                                 ");
       gets(roomnumber);
       fflush(stdin);
       while(fread(&serial, sizeof(serial), 1, f)) {
           if(strcmp(serial.room no, roomnumber) == 0){
               system("cls");
                     printf("\n\t\t\t\ -|Searched Customer's
details | - \n");
              printf("\n Room type: %s", serial.room type);
               printf("\n----");
              printf("\n Room number: %s", serial.room no);
              printf("\n----");
              printf("\n Name: %s", serial.name);
              printf("\n----");
               printf("\n Address: %s", serial.address);
              printf("\n----");
               printf("\n Phone Number: %s", serial.phn no);
              printf("\n----");
              printf("\n Email: %s", serial.email);
              printf("\n----");
              printf("\n Period: %s", serial.period);
              printf("\n----");
                              printf("\n Arrival date: %s",
serial.arrival date);
               printf("\n----");
               printf("\n\t\t\t\ Press any key to go back to
menu");
               isFound = 1;
              break;
```

```
}
       if(isFound == 0) {
            printf("\n\n\n\n\n\t\t\t !!Searched Customer is
not found!!");
            printf("\n\n\n\t\t\t\
Press any key to go back
to menu\n\t\t\t\t\t\t\");
       fclose(f);
       getch();
   }
    system("cls");
    showMenu();
}
void editCustomer() {
   FILE *f, *t;
    char roomnumber[10];
    int isFound = 0;
    f = fopen("customerData.txt", "r");
    t = fopen("temp.txt", "a+");
    if(f == NULL) {
        printf("\n\n\n\n\n\t\t\t!!Sorry, there are no
customers!!");
       sleep(1);
   }else if(t == NULL) {
         printf("\n\n\n\n\n\n\n\t\t\t\
!!Sorry, Something
went wrong!!");
         sleep(1);
   }else {
       printf("\n\t\t\t Enter room number of the customer");
                                            printf("\n\t\t\t\t
-----\n\t\t\t\t
                                                  ");
       gets(roomnumber);
       fflush(stdin);
       while(fread(&serial, sizeof(serial), 1, f)) {
           if(strcmp(serial.room no,roomnumber) == 0) {
               isFound = 1;
           }else {
               fwrite(&serial, sizeof(serial), 1, t);
       }
       if (isFound == 1) {
           system("cls");
```

```
printf("\n\t\t\t\t.----.");
          printf("\n\t\t\t\t|Edited Customer's Details|");
          printf("\n\t\t\t\t\t'----'\n");
          printf("\n Enter Room type(AC/NON-AC):");
          gets(serial.room type);
          fflush(stdin);
          printf("----");
          printf("\n Enter Room number:");
          gets(serial.room no);
          fflush(stdin);
          printf("----");
          printf("\n Enter Name:");
          gets(serial.name);
          fflush(stdin);
          printf("----");
          printf("\n Enter Address:");
          gets(serial.address);
          fflush(stdin);
          printf("----");
          printf("\n Enter Phone Number:");
          gets(serial.phn no);
          fflush(stdin);
          printf("----");
          printf("\n Enter Email:");
          gets(serial.email);
          fflush(stdin);
          printf("----");
          printf("\n Enter Period('x'days):");
          gets(serial.period);
          fflush(stdin);
          printf("----");
          printf("\n Enter Arrival date(dd\\mm\\yyyy):");
          gets(serial.arrival date);
          fflush(stdin);
          printf("-----");
          fwrite(&serial, sizeof(serial), 1, t);
          fflush(stdin);
                   printf("\n\n\t\t\t !!Customer's data is
successfully edited!!");
           printf("\n\n\t\t\t\
Press any key to go back
to menu");
       }else {
           printf("\n\n\n\t\t\t\t\t\t\t\t\t) There is no customer in
this room!!");
           printf("\n\n\t\t\t) Press any key to go back
to menu\n\t\t\t\t\t\");
      }
```

```
fclose(f);
        fclose(t);
        remove("customerData.txt");
       rename("temp.txt", "customerData.txt");
       getch();
    }
    system("cls");
    showMenu();
}
void exitMenu() {
   printf("\n\n\n\n\n\t\t\t\t\t
!!THANK YOU!!");
      printf("\n\n\n\t\t\t\t\we are happy to have you in our
hotel.");
   printf("\n\n\t\t\t Have a nice day!\n\n\n\n");
   exit(0);
}
```

# Welcome

```
void printWelcome() {
   printf("\n\n\n\n\n");
   printf("\t
                                                                                              .\n");
   printf("\t
                                                                                              |\n");
   printf("\t
                                                                                              |\n"\rangle;
                                   WW EEEEEEE LL
                                                     CCCCCCC 000000 MM
                                                                                 MM EEEEEEE
   printf("\t
                                              LL
                                                     CC OO OO MM MM MM MM EE
                                                                                              |\n");
                                  WW EE
   printf("\t
                     WW
                                 WW
                                      EEEEE
                                             _{
m LL}
                                                  CC
CC
                                                              00
                                                                    OO MM MM
                                                                                 MM EEEEE
                                                                                              | \n" \rangle;
   printf("\t
                                      EE
                                              _{\rm LL}
                                                             00
                                                                    OO MM
                                                                                 MM EE
                                                                                              |\n");
                                                                                             |\n");
   printf("\t
                                      EEEEEEE LLLLLL CCCCCCC 000000 MM
                               ww
                                                                                 MM EEEEEEE
   printf("\t
                                                                                              |\n");
   printf("\t
                                                                                              '\n");
   sleep(1);
   system("cls");
   printf("\n\n\n");
   printf("\t\t\t
                                                  --.\n");
   printf("\t\t\t\t
                                                    |\n");
   printf("\t\t\t\t
                                                    |\n");
   printf("\t\t\t
                                                    | n" ;
                               | HOTEL ELITE |
   printf("\t\t\t\t
                                                    |\n");
   printf("\t\t\t
                                                    |\n");
   printf("\t\t\t\t
                                                    |\n");
   printf("\t\t\t\t
                                                    |\n");
                            Brought To You By
   printf("\t\t\t\t
                                                    |\n");
   printf("\t\t\t
                                                   |\n");
                           Akram Hossain Apu Khan
   printf("\t\t\t\t
                                                    |\n"\rangle;
                                Kazim Hasan
                                                    |\n");
   printf("\t\t\t\t
                                Abrar Fayaz
   printf("\t\t\t\t
                                                   -'\n");
   sleep(2);
   system("cls");
```

## Login

```
void checkLogin() {
    int i;
    char name[100], pass[50], c;
    jump:
    printf("\n\n\n\n");
                           ______ Enter <u>Username</u> -____\n\n\t\t\t\t\t\t");
   printf("\n\t\t\t
   gets (name);
                            -Enter Password-___\n\n\t\t\t\t\t\t");
    printf("\n\t\t\t\t
    gets (pass);
    if(strcmp(name, "user") != 0 && strcmp(pass, "pass") != 0) {
       printf("\n\n\t\t\t !!Incorrect Username and Password!!\n\n\n");
       printf("\n\t\t\t\t
                              Press any key to enter again\n\n\t\t\t\t\t
       getch();
       system("cls");
       goto jump;
    }else if(strcmp(name, "user") != 0 && strcmp(pass, "pass") == 0) {
       printf("\n\n\t\t\t\t !!Incorrect Username!!\n\n\n");
       printf("\n\t\t\t\t
Press any key to enter again\n\n\t\t\t\t\t\t
       getch();
       system("cls");
       goto jump;
    }else if((strcmp(name, "user") == 0 && strcmp(pass, "pass") != 0)) {
       printf("\n\n\t\t\t\t !!Incorrect Password!!\n\n\n");
       printf("\n\t\t\t\t Press any key to enter again\n\n\t\t\t\t\t\t
                                                                              ");
       getch();
       system("cls");
       goto jump;
   }else {
       system("cls");
}
```

#### Menu

```
void showMenu() {
   _____-|MAIN MENU|-____
   printf("\n\t\t\t\t
                       2 -> View Customers Record");
   printf("\n\t\t\t
   printf("\n\t\t\t
                       3 -> Delete a Customer From the Record");
   printf("\n\t\t\t
   printf("\n\t\t\t
                      4 -> Search a Customer From the Record");
   printf("\n\t\t\t
   printf("\n\t\t\t
                     5 -> Edit a Customer's Data");
   printf("\n\t\t\t
                       6 -> Exit");
-----\n\n");
   printf("\n\t\t\t\t
   printf("\n\t\t\t\t
                    _-|Please enter your choice from the menu|-_\n\t\t\t\t\t\t\ ");
   printf("\n\t\t\t
```

### AddCustomer

```
strcpy(serial.room type, roomtype);
       strcpy(serial.room no, roomnumber);
       printf("\n Enter Name:");
       gets(serial.name);
       fflush(stdin);
       printf("----");
       printf("\n Enter Address:");
       gets(serial.address);
       fflush(stdin);
       printf("----");
       printf("\n Enter Phone Number:");
       gets(serial.phn no);
       fflush(stdin);
       printf("----");
       printf("\n Enter Email:");
       gets(serial.email);
       fflush(stdin);
       printf("----");
       printf("\n Enter Period('x'days):");
       gets(serial.period);
       fflush(stdin);
       printf("----");
       printf("\n Enter Arrival date(dd\\mm\\yyyy):");
       gets(serial.arrival date);
       fflush(stdin);
       printf("----");
       fwrite(&serial, sizeof(serial), 1, f);
       fflush(stdin);
       printf("\n\n\t\t\t !!Your Room is successfully booked!!\n");
       fclose(f);
       qetch();
       printInvoice();
   end:
   system("cls");
   showMenu();
}
```

```
strcpy(serial.room type, roomtype);
       strcpy(serial.room no, roomnumber);
       printf("\n Enter Name:");
       gets(serial.name);
       fflush(stdin);
       printf("----");
       printf("\n Enter Address:");
       gets(serial.address);
       fflush(stdin);
       printf("----");
       printf("\n Enter Phone Number:");
       gets(serial.phn no);
       fflush(stdin);
       printf("----");
       printf("\n Enter Email:");
       gets(serial.email);
       fflush(stdin);
       printf("----");
       printf("\n Enter Period('x'days):");
       gets(serial.period);
       fflush(stdin);
       printf("----");
       printf("\n Enter Arrival date(dd\\mm\\yvyy):");
       gets(serial.arrival date);
       fflush(stdin);
       printf("----");
       fwrite(&serial, sizeof(serial), 1, f);
       fflush(stdin);
       printf("\n\n\t\t\t !!Your Room is successfully booked!!\n");
       fclose(f);
       getch();
       printInvoice();
   end:
   system("cls");
   showMenu();
}
```

## PrintInvoice

## ViewRecord

```
void viewRecord() {
   FILE *f;
   f = fopen("customerData.txt", "r");
   if(f == NULL) {
       printf("\n\n\n\n\n\t\t\t!!Sorry, There are no customers!!");
       sleep(1);
   }else {
       int i = 1;
       while(fread(&serial, sizeof(serial), 1, f)) {
           printf("\n\t\t\t\t\ _-|Customer %d data|-_\n\n", i);
           printf("\n Room type: %s", serial.room type);
           printf("\n----");
           printf("\n Room number: %s", serial.room no);
           printf("\n----");
           printf("\n Name: %s", serial.name);
           printf("\n----");
           printf("\n Address: %s", serial.address);
           printf("\n----");
           printf("\n Phone Number: %s", serial.phn no);
           printf("\n----");
           printf("\n Email: %s", serial.email);
           printf("\n----");
           printf("\n Period: %s", serial.period);
           printf("\n----");
           printf("\n Arrival date: %s", serial.arrival date);
           printf("\n----");
           printf("\n\t\t\t\ Press any key to go back to menu");
           i++;
       fclose(f);
       getch();
   system("cls");
   showMenu();
}
```

#### DeleteCustomer

```
void deleteCustomer() {
   FILE *f, *t;
   char roomnumber[20];
   int isFound = 0;
   f = fopen("customerData.txt", "r");
   t = fopen("temp.txt", "a+");
   if(f == NULL) {
       printf("\n\n\n\n\n\n\n\t\t\t !!Sorry, there are no customers!!");
       sleep(1);
    }else if(t == NULL) {
       printf("\n\n\n\n\n\n\t\t\t\
!!Sorry, Something went wrong!!");
       sleep(1);
    }else {
       printf("\n\t\t\t Enter room number of the customer");
       printf("\n\t\t\t\t -----\n\t\t\t\t\");
       gets(roomnumber);
       fflush(stdin);
       while(fread(&serial, sizeof(serial), 1, f)) {
           if(strcmp(serial.room no,roomnumber) == 0) {
               isFound = 1;
           }else {
              fwrite(&serial, sizeof(serial), 1, t);
       if(isFound == 1) {
           printf("\n\n\n\t\t\t !!The Customer is successfully removed!!");
           printf("\n\n\n\t\t\t\
Press any key to go back to menu\n\t\t\t\t\t\t\t\
       }else
           printf("\n\n\n\n\t\t\t!!There is no customer in this room!!");
           printf("\n\n\n\t\t\t\
Press any key to go back to menu\n\t\t\t\t\t\t\
");
       fclose(f);
       fclose(t);
       remove("customerData.txt");
       rename("temp.txt", "customerData.txt");
       getch();
   system("cls");
   showMenu();
}
```

### SearchCustomer

```
void searchCustomer() {
   FILE *f;
   char roomnumber[10];
   int isFound = 0;
   f = fopen("customerData.txt", "r+");
   if(f == NULL) {
       printf("\n\n\n\n\n\n\n\t\t\t !!Sorry, there are no customers!!");
       sleep(1);
   }else {
       printf("\n\t\t\t Enter room number of the customer");
       printf("\n\t\t\t -----\n\t\t\t\t\");
       gets(roomnumber);
       fflush(stdin);
       while(fread(&serial, sizeof(serial), 1, f)) {
           if(strcmp(serial.room no, roomnumber) == 0){
               system("cls");
               printf("\n\t\t\t __-|Searched Customer's details|-__\n");
               printf("\n Room type: %s", serial.room type);
               printf("\n----");
               printf("\n Room number: %s", serial.room no);
               printf("\n----");
               printf("\n Name: %s", serial.name);
               printf("\n----");
               printf("\n Address: %s", serial.address);
               printf("\n----");
               printf("\n Phone Number: %s", serial.phn no);
               printf("\n----");
               printf("\n Email: %s", serial.email);
               printf("\n----");
               printf("\n Period: %s", serial.period);
               printf("\n----");
               printf("\n Arrival date: %s", serial.arrival date);
               printf("\n----");
               printf("\n\t\t\t Press any key to go back to menu");
              isFound = 1;
              break;
          }
       }
      if(isFound == 0) {
          printf("\n\n\n\n\n\t\t\t !!Searched Customer is not found!!");
          printf("\n\n\n\t\t\t\
Press any key to go back to menu\n\t\t\t\t\t\t\
");
      fclose(f);
      getch();
   system("cls");
   showMenu();
```

```
void editCustomer() {
   FILE *f, *t;
   char roomnumber[10];
   int isFound = 0;
   f = fopen("customerData.txt", "r");
   t = fopen("temp.txt", "a+");
   if(f == NULL) {
      printf("\n\n\n\n\n\n\n\t\t\t !!Sorry, there are no customers!!");
       sleep(1);
   }else if(t == NULL) {
      printf("\n\n\n\n\n\t\t\t!!Sorry,Something went wrong!!");
   }else {
      printf("\n\t\t\t Enter room number of the customer");
      printf("\n\t\t\t\ ----\n\t\t\t\t\");
      gets(roomnumber);
      fflush(stdin);
       while(fread(&serial, sizeof(serial), 1, f)) {
          if(strcmp(serial.room no, roomnumber) == 0) {
             isFound = 1;
             fwrite(&serial, sizeof(serial), 1, t);
       if (isFound == 1) {
          system("cls");
          printf("\n\t\t\t\t.----.");
          printf("\n\t\t\t\t\t|Edited Customer's Details|");
          printf("\n\t\t\t\t\t'----'\n");
          printf("\n Enter Room type(AC/NON-AC):");
          gets(serial.room type);
          fflush(stdin);
          printf("----");
          printf("\n Enter Room number:");
          gets(serial.room no);
          fflush(stdin);
          printf("----");
```

```
printf("\n Enter Name:");
          gets(serial.name);
          fflush(stdin);
          printf("----");
          printf("\n Enter Address:");
          gets(serial.address);
          fflush(stdin);
          printf("----");
          printf("\n Enter Phone Number:");
          gets(serial.phn no);
          fflush(stdin);
          printf("----");
          printf("\n Enter Email:");
          gets(serial.email);
          fflush(stdin);
          printf("----");
          printf("\n Enter Period('x'days):");
          gets(serial.period);
          fflush(stdin);
          printf("----");
          printf("\n Enter Arrival date(dd\\mm\\yyyy):");
          gets(serial.arrival date);
          fflush(stdin);
          printf("-----
          fwrite(&serial, sizeof(serial), 1, t);
          fflush(stdin);
          printf("\n\n\t\t\t !!Customer's data is successfully edited!!");
          printf("\n\n\t\t\t\
Press any key to go back to menu");
       }else {
          printf("\n\n\n\n\t\t\t!!There is no customer in this room!!");
          printf("\n\n\t\t\t Press any key to go back to menu\n\t\t
       fclose(f);
       fclose(t):
       remove("customerData.txt");
       rename("temp.txt", "customerData.txt");
       getch();
   system("cls");
   showMenu();
}
                                 ExitMenu
void exitMenu() {
    printf("\n\n\n\n\n\n\t\t\t\t\
!!THANK YOU!!");
    printf("\n\n\n\t\t\t\twe are happy to have you in our hotel.");
    printf("\n\n\t\t\t\t
Have a nice day!\n\n\n\n\n");
    exit(0);
```