***Hotel Management System***

#include<stdio.h>

#include<string.h>

#include<stdlib.h>

**///this variable Declare only for login**

char username[20];

char password[10];

FILE \*C\_details,\*shop;

**///this Structure Customer Information**

struct customer

{

char name[20];

char gender[10];

char nationality[10];

char room\_category[10];

int room\_number;

int phone\_number;

} visitor1;

**///this Structure Restaurant service**

struct customerShop

{

char food[20];

int prize;

} cs1;

int pq,sum,a,c,h\_customer,name,opt;

char h\_name[20],pn[20],again;

**///this function is Customer Bay any product**

void customer\_site()

{

shop=fopen("shop\_service.txt","r");

**///this While loop is Scan File to display in shop item**

while(fscanf(shop,"%s\t\t%d\n",cs1.food,&cs1.prize)!=EOF)

{

printf("\t\t\t%s\t\t%d\n",cs1.food,cs1.prize);

}

fclose(shop);

printf("\n\n\n");

printf("\t\t\tSubmit Your Product Name\_\_\_\_");

scanf("%s",pn);

printf("\t\t\tEnter Product Quantity\_\_\_\_");

scanf("%d",pq);

while(pn!=0)

{

shop=fopen("shop\_service.txt","r");

while(fscanf(shop,"%s\t\t%d\n",cs1.food,&cs1.prize)!=EOF)

{

if(strcmp(pn,cs1.food)==0)

{

sum=cs1.prize\*pq;

printf("\t\t\tyou can pay %d TAKA\n",sum);

\_getch();

menu();

}

}

}

fclose(shop);

printf("\n\n\n");

printf("\t\t\tDo you want to again Shopping press 1 otherwise 2\_\_\_\_\_\_\_");

scanf("%d",&opt);

if(opt==1)

{

system("cls");

customer\_site();

}

else

{

system("cls");

menu();

}

}

**///this function is Display Shop item only for manager**

void disply\_product()

{

**///shop file open in read mood**

shop=fopen("shop\_service.txt","r");

while(fscanf(shop,"%s\t\t%d\n",cs1.food,&cs1.prize)!=EOF)

{

printf("\n");

printf("\t\t\t%s\t\t%d\n",cs1.food,cs1.prize);

}

fclose(shop);

\_getch();

system("cls");

manager();

}

**///this function only for add product in manager**

void add\_product()

{

**///now open in file Apend mood**

shop=fopen("shop\_service.txt","a+");

if(shop==NULL)

{

printf("File Create Successfully\n");

exit(1);

}

printf("\n\n\n");

fflush(stdin);

printf("\t\t\tPlease Enter Food Name\_\_\_\_");

fflush(stdin);

scanf("%s",cs1.food);

fflush(stdin);

printf("\t\t\tPlease Enter Food Prize\_\_\_\_\_");

fflush(stdin);

scanf("%d",&cs1.prize);

fprintf(shop,"%s\t\t%d\n",cs1.food,cs1.prize);

fclose(shop);

system("cls");

printf("\n\n\n");

printf("\t\t\tAdd more press 1 otherwise Enter\_\_\_");

scanf("%d",&c);

if(c==1)

{

system("cls");

add\_product();

}

else

{

system("cls");

menu();

}

}

**///this function only for manager**

void manager()

{

int e;

printf("\n\n\n");

printf("\t\t\t1.Add Product\n");

printf("\t\t\t2.Display Product\n");

printf("\t\t\t3.Back\n\n");

printf("\t\t\t>>>>Enter Your Choice\_\_\_");

scanf("%d",&e);

if(e==1)

{

system("cls");

add\_product();

}

else if(e==2)

{

system("cls");

disply\_product();

}

else

{

system("cls");

restaurant();

}

}

**///this function only for reastaurant service**

void restaurant()

{

printf("\n\n\n");

printf("\t\t\t1.Are you Manager\n");

printf("\t\t\t2.Are you Customer\n");

printf("\t\t\t3.Back\n\n");

printf("\t\t\tplease Select Your Option\_\_\_");

scanf("%d",&a);

system("cls");

if(a==1)

{

manager();

}

else if(a==2)

{

customer\_site();

}

else

{

menu();

}

}

**///this function Work customer search in hotel**

void searching()

{

printf("\n\n\n");

printf("\t\tWhat is your customer name\_\_\_");

printf("\n");

scanf("%s",h\_name);

///hotel customer details file open

C\_details=fopen("Customer\_Details.txt","a+");

**///scan all name and other things In End of while loop**

while(fscanf(C\_details,"%s\t%s\t%\t%s\t%d\t%d\n",visitor1.name,visitor1.gender,visitor1.nationality,visitor1.room\_category,&visitor1.room\_number,&visitor1.phone\_number)!= EOF)

{

if(strcmp(h\_name,visitor1.name)==0)

{

**///now print this variable with in a value or name other things**

printf("\t\tName\_\_%s\n",visitor1.name);

printf("\t\tGander\_\_%s\n",visitor1.gender);

printf("\t\tNationality\_\_%s\n",visitor1.nationality);

printf("\t\tRoom Category\_\_%s\n",visitor1.room\_category);

printf("\t\tRoom Number\_\_%d\n",visitor1.room\_number);

printf("\t\tphone Number\_\_%d\n",visitor1.phone\_number);

}

}

**///hotel customer file close**

fclose(C\_details);

\_getch();

system("cls");

menu();

}

**///this function only for Room system show**

void Sweet()

{

printf("\n\n\n");

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\_\_\_\_\_\_our room service are\_\_\_\_\_\_\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("\n");

printf("\t\t1.Sweet Room Will Generally few Bed for in Different Room in Float\n");

printf("\t\t2.A single room with a king/queen/full/twin bed(s)\n");

printf("\t\t3.Refrigerator\n");

printf("\t\t4.Air Condition System\n");

printf("\t\t5.One Single Desk with Chair\n");

printf("\t\t6.Cloth Stand\n");

printf("\t\t7.TV\n");

printf("\t\t8.A Sofa\n");

printf("\t\t9.A suite however is a much larger accommodation.\n");

printf("\t\t\t\t Cost:- Per Night 10,000.00TK\n\n\n");

printf("\t\t are You Agree with us press 1 for Booking\_\_\_\_\_");

scanf("%d",&a);

if(a==1)

{

system("cls");

booking();

}

else

{

system("cls");

menu();

}

}

**///this function only for show room system**

void Double\_bed()

{

printf("\n\n\n");

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\_\_\_\_\_\_our room service are\_\_\_\_\_\_\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("\n");

printf("\t\t1.Double Room Will Generally 1 Bed for Two Persons\n");

printf("\t\t2.Queen or King Size Bed\n");

printf("\t\t3.Refrigerator\n");

printf("\t\t4.Air Condition System\n");

printf("\t\t5.One Single Desk with Chair\n");

printf("\t\t6.Cloth Stand\n");

printf("\t\t\t\t Cost:- Per Night 6000.00TK\n\n\n");

printf("\t\t are You Agree with us press 1 For Booking\_\_\_\_");

scanf("%d",&a);

if(a==1)

{

system("cls");

booking();

}

else

{

system("cls");

menu();

}

}

**///this function only for show room system**

void single()

{

printf("\n\n\n");

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\_\_\_\_\_\_our room service are\_\_\_\_\_\_\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("\n");

printf(">>>>Our single rooms are small but very cozy with an area between 11-14 sqm\n");

printf("\t\t1.One Single Bed and other are include\n");

printf("\t\t2.Refrigerator\n");

printf("\t\t3.Air Condition System\n");

printf("\t\t4.One Single Desk with Chair\n");

printf("\t\t5.Cloth Stand\n");

printf("\t\t\t\t Cost:- Per Night 4000.00TK\n\n\n");

printf("\t\t are You Agree with us press 1 for booking\_\_\_\_\_");

scanf("%d",&a);

if(a==1)

{

system("cls");

booking();

}

else

{

system("cls");

menu();

}

}

**///this function show how many customer now in a hotel**

void view\_customer\_record()

{

**///again hotel customer details file open**

C\_details=fopen("Customer\_Details.txt","r");

**///same scan all element in file**

while(fscanf(C\_details,"%s\t%s\t%s\t%s\t%d\t%d\n",visitor1.name,visitor1.gender,visitor1.nationality,visitor1.room\_category,&visitor1.room\_number,&visitor1.phone\_number)!= EOF)

{

printf("\n\n");

printf("Name\_\_\_%s\n",visitor1.name);

printf("Gender\_\_\_%s\n",visitor1.gender);

printf("Nationality\_\_\_%s\n",visitor1.nationality);

printf("Service Category\_\_\_%s\n",visitor1.room\_category);

printf("Room Number\_\_\_%d\n",visitor1.room\_number);

printf("Customer Phone Number\_\_\_%d\n",visitor1.phone\_number);

}

fclose(C\_details);

\_getch();

system("cls");

menu();

}

FILE \*fp;

**///this function only for Delete customer**

void deletion()

{

**///now open a new file in delete customer in append plus mode**

fp=fopen("Deleted\_customer.txt","w");

if(fp==NULL)

{

printf("File Don't create successfully\n");

exit(1);

}

printf("\n\n\n");

printf("\t\tEnter Name Which Person checkout....\n");

scanf("%s",h\_name);

**///same way customer details file open**

C\_details=fopen("Customer\_Details.txt","r+");

while(fscanf(C\_details,"%s\t%s\t%s\t%s\t%d\t%d\n",visitor1.name,visitor1.gender,visitor1.nationality,visitor1.room\_category,&visitor1.room\_number,&visitor1.phone\_number)!=EOF)

{

**///this statement compare in value which one i delete**

if(strcmp(h\_name,visitor1.name)==1)

{

while(fprintf(fp,"%s\t%s\t%s\t%s\t%d\t%d\n",visitor1.name,visitor1.gender,visitor1.nationality,visitor1.room\_category,visitor1.room\_number,visitor1.phone\_number)!=EOF)

{

while(fscanf(fp,"%s\t%s\t%s\t%s\t%d\t%d\n",visitor1.name,visitor1.gender,visitor1.nationality,visitor1.room\_category,visitor1.room\_number,visitor1.phone\_number)!=EOF)

{

printf("%s\t",visitor1.name);

printf("%s\t",visitor1.gender);

printf("%s\t",visitor1.nationality);

printf("%s\t",visitor1.room\_category);

printf("%d\t",visitor1.room\_number);

printf("%d\n",visitor1.phone\_number);

}

}

fclose(C\_details);

fclose(fp);

}

}

\_getch();

system("cls");

menu();

}

**///this function only show how many room are here**

void category()

{

int room;

printf("\n\n\n");

printf("\t\tWe Service Our 3 System Room Service...\n");

printf("\t\t1.Single\n");

printf("\t\t2.Double\n");

printf("\t\t3.Sweet\n");

printf("\t\t4.Exit\n");

printf("\t\tif you Return Main Menu...press any key Without This Option\n");

system("color 0D");

printf("\t\t>>>>Choice your Category\_\_\_\_");

scanf("%d",&room);

system("cls");

**///call room service**

if(room==1)

{

single();

}

else if(room==2)

{

Double\_bed();

}

else if(room==3)

{

Sweet();

}

else

{

menu();

}

}

int restaurant\_help;

**///this function only for booking hotel customer**

void booking()

{

**///1stly open file in here**

C\_details=fopen("Customer\_Details.txt","a+");

if(C\_details==NULL)

{

printf("File Don't create successfully\n");

exit(1);

}

**///one by one input customer details and put the C\_details Addressed file**

**///fflush(stdin) use without buffering for printf and scanf**

fflush(stdin);

printf("\n\n\n");

printf("\t\tEnter Customer Name\_\_\_");

scanf("%s",visitor1.name);

fprintf(C\_details,"%s\t",visitor1.name);

fflush(stdin);

printf("\t\tEnter Customer Gender\_\_\_");

scanf("%s",visitor1.gender);

fprintf(C\_details,"%s\t",visitor1.gender);

fflush(stdin);

printf("\t\tEnter Customer Nationality\_\_\_");

scanf("%s",visitor1.nationality);

fprintf(C\_details,"%s\t",visitor1.nationality);

fflush(stdin);

printf("\t\tRoom category\_\_\_");

scanf("%s",visitor1.room\_category);

fprintf(C\_details,"%s\t",visitor1.room\_category);

fflush(stdin);

printf("\t\tEnter Booked Room Number\_\_\_");

scanf("%d",&visitor1.room\_number);

fprintf(C\_details,"%d\t",visitor1.room\_number);

fflush(stdin);

printf("\t\tEnter customer Phone Number\_\_\_");

scanf("%d",&visitor1.phone\_number);

fprintf(C\_details,"%d\n",visitor1.phone\_number);

fclose(C\_details);

**///this statement again pose system**

printf("\t\tCustomer Record Saved Successfully....thank you\n");

printf("\t\tEnter 2 for more booking\n");

printf("\t\tAre You Have Need Restaurants Service press 1\_\_\_\_\_");

scanf("%d",&restaurant\_help);

system("cls");

if(restaurant\_help==1)

{

customer\_site();

}

else if(restaurant\_help==2)

{

booking();

}

else

{

menu();

}

}

**///this function only for call main menu option using if else statement same way we use switch case statement**

void option(int number)

{

if(number==1)

{

booking();

}

else if(number==2)

{

category();

}

else if(number==3)

{

deletion();

}

else if(number==4)

{

searching();

}

else if(number==5)

{

view\_customer\_record();

}

else if(number==6)

{

restaurant();

}

else

{

return;

}

}

**///this function show our system main menu**

void menu()

{

system("color 0D");

int number;

printf("\n\n\n");

printf("\t\t@==========================================================@\n");

printf("\t\t| WELCOM TO OUR SYSTEM |\n");

printf("\t\t|1.Booking |\n");

printf("\t\t|2.Category |\n");

printf("\t\t|3.Deletion |\n");

printf("\t\t|4.Searching |\n");

printf("\t\t|5.View Customer Record |\n");

printf("\t\t|6.Restaurants Service |\n");

printf("\t\t|7.Exit |\n");

printf("\t\t@==========================================================@\n");

printf("\t\tSelection your Option\_\_\_");

scanf("%d",&number);

system("cls");

///this function call for option selection

option(number);

}

**///user name and password system only for this function**

void login()

{

system("color 0A");

printf("\t\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_SAFTY FIRST\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("\t\t\t1.Please Enter Username\_\_");

gets(username);

printf("\t\t\t2.Please Enter password\_\_");

gets(password);

if(strcmp(username, "rayhan") == 0)

**///this compare is only which name i give and which name programmer given**

{

if(strcmp(password, "rayhan") == 0)

**///this compare is only which password i give and which password programmer given**

{

system("color 0B");

printf("\t\t\tYou are Successfully Login.\n");

\_getch();

system("cls");

menu();

}

else

{

printf("\t\t\tWrong password.\n");

\_getch();

system("cls");

login();

}

}

else

{

printf("\t\t\tyour usename is incorrect.\n");

\_getch();

system("cls");

login();

}

}

**///this is main function where program start**

int main()

{

system("color 0D");

printf("Press any key To Continue\n");

\_getch();

system("cls");

**///call login page**

login();

}