#include<stdio.h>

#include<stdio.h>

#include <stdlib.h>

#include<string.h>

//STRUCTURE

typedef struct{

char showname[20];

char date[12];

char time[6];

char gate[2];

}Show;

Show show={"Avengers: Endgame","22-4-2019","20:30","7"};

typedef struct{

char name[30];

char booking\_ID[3];

int seats;

}Seat;

Seat choice[4][5];

void displaymenu();

void booking();

void cancel();

void seat();

void ticket();

void records();

void looping();

void exit\_();

//Variables

int selection;

int i;

int j;

int seats\_num[20]={0};

int booking\_ID=100;

int seatsAvailable=20;

int main(void)

{

displaymenu();

while(selection!=5)

{

looping();

}

return 0;

}

void displaymenu()

{

printf("\n");

printf("\t THEATRE SEAT RESERVATION\n"

"\t=============================\n"

"\tNow Showing: Avengers:Endgame\n"

"\t=============================\n"

"\n\t1=> FOR BOOKINGS\n"

"\n\t2=> FOR CANCELLING RESERVATION\n"

"\n\t3=> VIEW TOTAL SEATS\n"

"\n\t4=> VIEW RECORDS\n"

"\n\t5=> EXIT\n\n");

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

printf("\tPlease Enter Any : ");

scanf("%d",&selection);

looping();

return;

}

//looping()

void looping()

{

switch(selection)

{

case 1:

booking();

break;

case 2:

cancel();

break;

case 3:

seat();

break;

case 4:

records();

break;

case 5:

exit\_();

break;

default:

printf("\tInvalid selecion.Try again\n");

}

return;

}

//booking

void booking()

{

for(i=0;i<4;i++)

for(j=0;j<5;j++)

{

printf("\n\tPlease enter seats number : ");

scanf("%d",&choice[i][j].seats);

fflush(stdin);

if(choice[i][j].seats<=seatsAvailable)

{

printf("\tPlease enter customer name : ");

scanf("%[^\n]",choice[i][j].name);

fflush(stdin);

ticket();

booking\_ID++;

}

seatsAvailable=seatsAvailable-choice[i][j].seats;

system("pause");

system("cls");

displaymenu();

}

if(seatsAvailable<0)

{

printf("\n");

printf("\tSORRY, The Show Is Fully Booked\n");

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

displaymenu();

}

if(choice[i][j].seats>seatsAvailable)

{

printf("\n");

printf("\tThe show leave %d seats\n",seatsAvailable);

displaymenu();

}

return;

}

void ticket()

{

printf("\n\n");

printf("\t\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb THEATER BOOKED SEATS \xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\n");

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

printf("\t Booking ID : %d \t\t\tShow Name : %s\n",booking\_ID,show.showname);

printf("\t Customer : %s\n",choice[i][j].name);

printf("\t\t\t Date : %s\n",show.date);

printf("\t Time : %s\n",show.time);

printf("\t Hall : %s\n",show.gate);

printf("\t Seats No. : %d%c \n\n",i+1,j+65);

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

return;}

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// cancel

void cancel()

{

char cancelcustomername[80];

printf("Enter customer name to be cancel:");

scanf("%s",&cancelcustomername);

for(int i=0; i<4 ; i++)

{

for (int j =0 ; j<5; j++)

{

if (strcmp(choice[i][j].name , cancelcustomername) == 0)

{

//seats\_num++;

choice[i][j].seats = 1 ;

system("pause");

system("cls");

displaymenu();

return ;

}

}

}

}

//seat

void seat()

{

printf(" A B C D E\n");

for(j=0;j<5;j++)

{

printf("%d ",booking\_ID);

}

for(i=0;i<4;i++)

{

printf("\n");

printf("%d\n",i+1);

}

system("pause");

system("cls");

displaymenu();

return;

}

void records() //For Staff to View the Show's records

{

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

printf("\tDISPLAYING ALL RECORDS\n");

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

printf("\tSeats Available left : %d \n",seatsAvailable);

ticket();

system("pause");

system("cls");

displaymenu();

return;

}

void exit\_()

{

printf("\tThank you for using this system\n");

exit(1);

return;

}