

A Mini Project Report
on
**MOVIE BOOKING (DURING COVID-19
PANDEMIC)**

DATA STRUCTURES LAB

II B.E CSE-B, III SEMESTER

By

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2. ABSTRACT

OBJECTIVE:

The main objective of this project is to create a user interface which deals with the booking of the movie tickets and managing booking activities efficiently.

WORKING:

Firstly the console prompts the user to either login or create new account to buy the tickets. If the user already has an account he can directly login if not he has to create a new account and then login. User credentials are safely stored in files so that their details aren't lost even after termination of the program.

User then selects favorable Theatre, Movie, Slot, food and beverages and then final ticket is displayed consisting of all the details including time and date of ticket-booking. User will then be asked if he/she wants to cancel any seat and the actions are done accordingly.

CONCEPTS USED:

Language used: C

Data Structures in C- Arrays

Queues

Linked list

3. INTRODUCTION

The Economy of every sector has been drastically effected during COVID-19 Pandemic. One among those is Movie theatres. Basically this project helps us in booking Movie tickets in such a way that social distancing is ensured in the theaters since alternate seats have been blocked for safety.

4. DESIGN

STRATEGY:

Each theatre comprises of 204 seats. There are three classes mainly Gold, Silver, and Diamond. Accordingly pricing is done. Each seat is presented by a node in a double linked list. When a seat is booked “ * ” will be displayed and also quarantined seats are displayed in the same way. Food and Beverages are stored in a queue data structure. Then ticket is displayed and re-booking and cancellation options are also available. When a ticket is cancelled the price of that seat is cancelled and the new price will be displayed.

5. IMPLEMENTATION

/**

CODE PART

*****/

```
#include <stdio.h>
```

```
#include<stdlib.h>
```

```
#include<time.h>
```

```
#include<string.h>
```

```
void start();
```

```
int call();
```

```
int userlogin(int);
```

```
void CreateSeats();
```

```
void BrowseByTheatre();
```

```
void BrowseByMovie();
```

```
void BookSeats();
```

```
void fb();
```

```
void DisplaySeats(int,int[],int);
```

```
int cancelseat();
```

```
typedef struct snack{
```

```

    int x;

    struct snack*link;

}snacks;

snacks*front=NULL;

snacks*rear=NULL;

typedef struct node {

    struct node *prev;

    int seatnum;

    int status;

    struct node *next;

}seats;

seats *head1,*head2,*head3,*head4;

struct user{

    char username[10];

    char password[10];

}*pUser;

int covid,theatre,movie,slot,netprice=0,desired=0,buysnack,rebook,cancel;

int main()

{

    int i; char movie [50];char theatre [50],login;

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

```

```

printf("WELCOME TO MOVIE BOOKING SITE!!!\n");

login=call();

printf("%d",login);

if(login==1)

{

    printf("Is COVID-19 still prevalent??\nIf yes press 1 If no press 0\n");

    scanf("%d",&covid);

    start();

}

else

{

    printf("user validation failure");

    exit(0);

}

printf("THANKYOU!!!\nVISIT AGAIN\n");

}

int call()

{

    int choice,sum;

    printf("1. Login Through An Existing Account\n2. Create New account\n3.exit\n");

    scanf("%d",& choice);

    sum=userlogin(choice);

```



```

if(sum==2)

return 1;

printf("1. Login Through An Existing Account\n2. Create New account\n3.exit\n");

scanf("%d",& choice);

sum=userlogin(choice);

if(sum==2)

return 1;

else

return 0;

}

int userlogin(int choice){

    FILE *fp;

    char uName[10], pwd[10];int x=0,pd=0,un=0;char c;

    pUser=(struct user *)malloc(sizeof(struct user));

    switch(choice)

    {

        case 1:

            if ( ( fp=fopen("user.dat", "r+")) == NULL) {

                if ( ( fp=fopen("user.dat", "w+")) == NULL) {

                    printf ("Could not open file\n");

                    exit (1);

```

```

    }
}

printf("Username: ");
scanf("%s",uName);
printf("Password: ");
scanf("%s",pwd);
while ( fread (pUser, sizeof(struct user), 1, fp) == 1)
{
    if( strcmp ( pUser->username, uName) == 0)
    {
        printf("User ID is valid\n");
        un=1;//confirmation
    }
    else
    {
        printf ("Username is invalid\n");
        exit(0);
    }
    if( strcmp ( pUser->password, pwd) == 0)
    {
        printf ("Match password\n");
        pd=1;

```

```

    }

    else

    {

        printf ("password is invalid\n");

        exit(0);

    }

}

break;

case 2:

if ( ( fp=fopen("user.dat", "a+") ) == NULL ) {

    if ( ( fp=fopen("user.dat", "w+") ) == NULL ) {

        printf ("Could not open file\n");

        exit ( 1);

    }

}

printf("Choose A Username: ");

scanf("%9s",pUser->username);

printf("Choose A Password: ");

scanf("%9s",pUser->password);

fwrite (pUser, sizeof(struct user), 1, fp);

printf("Account created successfully!!!\n");

break;

```

```

        case 3:

            x=3;

            exit(0);

        default:

            printf("invalid choice\n");

    }

    free(pUser);//free allocated memory

    fclose(fp);

    return pd+un;

}

void start()

{

    int browse,user,login;

    printf("How would you like to browse:\n1)As per theatre\n2)As per movie\n");

    scanf("%d",&browse);

    if(browse==1)

        BrowseByTheatre();

    else

        BrowseByMovie();

}

void BrowseByTheatre()

{

```

```

    printf("list of theatres available:\n1)Cinepolis\n2)Inox\n\nCHOOSE ONE AMONG
THESE\n");

    scanf("%d",&theatre);

    printf("list of movies
available:\n1)ironman\n2)tenet\n3)baahubali\n4)joker\n5)bridge\n6)batman\n\nCHOOSE ONE
AMONG THESE\n");

    scanf("%d",&movie);

    printf("SHOW TIMMINGS:\n1)11:00\n2)06:00\nCHOOSE ONE AMONG THESE\n");

    scanf("%d",&slot);

    if(rebook==1)
    {
        BookSeats();
    }
    else
    {
        CreateSeats();
        BookSeats();
    }

}

void BrowseByMovie()
{

```

```

    printf("list of movies
available:\n1)ironman\n2)tenet\n3)baahubali\n4)joker\n5)bridge\n6)batman\n\nCHOOSE ONE
AMONG THESE\n");

    scanf("%d",&movie);

    printf("list of theatres available:\n1)Cinepolis\n2)Inox\n\nCHOOSE ONE AMONG
THESE\n");

    scanf("%d",&theatre);

    printf("SHOW TIMMINGS:\n1)11:00AM\n2)06:00PM\nCHOOSE ONE AMONG
THESE\n");

    scanf("%d",&slot);

    if(rebook==1)
    {
        BookSeats();
    }
    else
    {
        CreateSeats();
        BookSeats();
    }

}

void CreateSeats()

```

```

{
    int i;

    seats *q1=head1;

    for(i=1;i<=204;i++)
    {
        seats *t=(seats*)malloc(sizeof(seats));

        if(q1==NULL)
        {
            t->seatnum=1;

            t->status=0;

            t->prev=head1;

            head1=t;

            q1=t;
        }
        else
        {
            t->seatnum=i;

            if(covid==1)
            {
                if(t->seatnum%2==0)

                    t->status=1;

                else

```

```

        t->status=0;

    }

    else

    {

        t->status=0;

    }

    t->prev=q1;

    q1->next=t;

    q1=t;

}

}q1->next=NULL;

seats *q2=head2;

for(i=1;i<=204;i++)

{

    seats *t=(seats*)malloc(sizeof(seats));

    if(q2==NULL)

    {

        t->seatnum=1;

        t->status=0;

        t->prev=head2;

        head2=t;

        q2=t;

```



```

    }
else
{
    t->seatnum=i;
    if(covid==1)
    {
        if(t->seatnum%2==0)
        t->status=1;
        else
        t->status=0;
    }
    else
    {
        t->status=0;
    }
    t->prev=q2;
    q2->next=t;
    q2=t;
}
}q2->next=NULL;
seats *q3=head3;
for(i=1;i<=204;i++)

```

```

{
    seats *t=(seats*)malloc(sizeof(seats));
    if(q3==NULL)
    {
        t->seatnum=1;
        t->status=0;
        t->prev=head3;
        head3=t;
        q3=t;
    }
    else
    {
        t->seatnum=i;
        if(covid==1)
        {
            if(t->seatnum%2==0)
            t->status=1;
            else
            t->status=0;
        }
        else
        {

```

```

        t->status=0;

    }

    t->prev=q3;

    q3->next=t;

    q3=t;

}

}q3->next=NULL;

seats *q4=head4;

for(i=1;i<=204;i++)

{

    seats *t=(seats*)malloc(sizeof(seats));

    if(q4==NULL)

    {

        t->seatnum=1;

        t->status=0;

        t->prev=head4;

        head4=t;

        q4=t;

    }

    else

    {

        t->seatnum=i;

```

```

        if(covid==1)
        {
            if(t->seatnum%2==0)

                t->status=1;

            else

                t->status=0;

        }

        else

        {

            t->status=0;

        }

        t->prev=q4;

        q4->next=t;

        q4=t;

    }

    }q4->next=NULL;

}

```

```

void BookSeats()

{

    int TotSeats,i,j;

    printf("ENTER NUMBER OF SEATS:\n");

    scanf("%d",&TotSeats);

```

```

int SelectedSeats[TotSeats];

printf("\nCHOOSE YOUR SEATS AMONG THE FOLLOWING
CLASSES\n\n<>Silver==>\nprice:60\nSeat numbers:1-60\nseats in a
row:12\nRows:5\n\n<>Gold==>\nprice:120\nSeat numbers:61-180\nseats in a
row:12\nRows:10\n\n<>Diamond==>\nprice :200\nSeat numbers:181-204\nseats in a
row:12\nRows:2\n");

printf("\nCORNER SEATS:\n");

for(i=1,j=12;j<205;i+=12,j+=12)

{

    printf("%d %d\n",i,j);

}


printf("available seats are:\n-----SCREEN-----\n");

if(theatre==1&&slot==1)

{

    seats *q1=head1;

    while(q1)

    {

        if(q1->status==0)

            printf("%d\t",q1->seatnum);

        else if((q1->status==1))

            printf("*\t");

```

```

    if(q1->seatnum%12==0)

    printf("\n\n");

    q1=q1->next;

}

printf("\nSelect the seats:\n");

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

{

    scanf("%d",&SelectedSeats[i]);

}


seats *t=head1;

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

    {

        while (t->seatnum != SelectedSeats[i])

            {

                t = t->next;

            }

        if (t->status == 1)

            {

                printf("you have chosen quarantined seates or already reserved seats please try
again!!!");

```

```

        exit (0);

    }

    else if (t->status == 0)

    {

        t->status = 1;

    }

}

```

```

else if(theatre==1&&slot==2)

{

    seats *q2=head2;

    while(q2)

    {

        if(q2->status==0)

            printf("%d\t",q2->seatnum);

        else

            printf("*\t");

        if(q2->seatnum%12==0)

            printf("\n\n");

        q2=q2->next;

    }

```

```

printf("\nSelect the seats:\n");
for(i=1;i<=TotSeats;i++)
scanf("%d",&SelectedSeats[i]);
seats *t=head2;
for (i = 0; i < TotSeats; i++)
{
    while (t->seatnum != SelectedSeats[i])
    {
        t = t->next;
    }

    if (t->status == 1)
    {
        printf("you have chosen quarantined seates or already reserved seats please try
again!!!");

        exit (0);
    }
    else if (t->status == 0)
    {
        t->status = 1;
    }
}

```



```

}

else if(theatre==2&&slot==1)

{

seats *q3=head3;

while(q3)

{

    if(q3->status==0)

        printf("%d\t",q3->seatnum);

    else

        printf("*\t");

    if(q3->seatnum%12==0)

        printf("\n\n");

    q3=q3->next;

}

printf("\nSelect the seats:\n");

for(i=1;i<=TotSeats;i++)

scanf("%d",&SelectedSeats[i]);

seats *t=head3;

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

    {

        while (t->seatnum != SelectedSeats[i])

            {

```

```

        t = t->next;

    }

    if (t->status == 1)

    {

        printf("you have chosen quarantined seates or already reserved seats please try
again!!!");

        exit (0);

    }

    else if (t->status == 0)

    {

        t->status = 1;

    }

}

}

else if(theatre==2&&slot==2)

{

    seats *q4=head4;

    while(q4)

    {

        if(q4->status==0)

        printf("%d\t",q4->seatnum);

```

```

else

printf("*\t");

if(q4->seatnum%12==0)

printf("\n\n");

q4=q4->next;

}

printf("\nSelect the seats:\n");

for(i=1;i<=TotSeats;i++)

scanf("%d",&SelectedSeats[i]);

seats *t=head4;

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

{

while (t->seatnum != SelectedSeats[i])

{

t = t->next;

}

if (t->status == 1)

{

printf("you have chosen quarantined seates or already reserved seats please try

again!!!");

exit (0);

```

```

        }

        else if (t->status == 0)

        {

            t->status = 1;

        }

    }

}

netprice=0;

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

{

    if(SelectedSeats[i]<61)

        netprice+=60;

    else if(SelectedSeats[i]<181)

        netprice+=120;

    else if(SelectedSeats[i]<205)

        netprice+=200;

}


printf("would you like to buy snacks? \nif yes press 1 else 0\n");

scanf("%d",&buysnack);

if(buysnack==1)

    fb();

```

```

    DisplaySeats(TotSeats,SelectedSeats,netprice);
}

void fb()
{
    int desired,snackagain;

    snacks *s=(snacks *)malloc(sizeof(snacks));

    do{

        printf("choose your snacks:\n1.coke and popcorn=>price:250\n2.coke and
nachos=>price:300\n3.popcorn and nachos=>price:350\n");

        scanf("%d",&desired);

        if(desired==1)

            netprice+=250;

        else if(desired==2)

            netprice+=300;

        else

            netprice+=350;

        s->x=desired;

        s->link=NULL;

        if(front==NULL&&rear==NULL)

        {

            front=s;

            rear=s;

```

```

    }

    else

    {

        rear->link=s;

        rear=s;

    }

    int snackagain;

    printf("would you like to buy more snacks?\nif yes press 1 if no press 0\n");

    scanf("%d",&snackagain);

    if(snackagain==0)

        break;

    }while(snackagain>0);

}

void DisplaySeats(int seats,int SelectedSeats[],int price)

{

    #define LEN 150

    char buf[LEN];

    int i;

    time_t curtime;

    struct tm *loc_time;

    curtime = time (NULL);

    loc_time = localtime (&curtime);

```

```

snacks *d=(snacks *)malloc(sizeof(snacks));

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

printf("CONGRATULATIONS YOUR SEATS ARE BOOKED!!!!\nDETAILS:\nMovie :");

(movie==1)?(printf("ironman")):

(movie==2)?(printf("tenet")):

(movie==3)?(printf("baahubali")):

(movie==4)?(printf("joker")):

(movie==5)?(printf("bridge")):printf("batman");

printf("\ntheatre :");

(theatre==1)?(printf("Cinapolis")):printf("Inox");

printf("\nNo. of seats :%d\n",seats);

printf("slot :");

(slot==1)?(printf("11:00AM\nSelectedseats:")):printf("6:00PM\nSelectedseats:");

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

printf("%d ",SelectedSeats[i]);

if(buysnack==1)

{

printf("\nsnacks:");

d=front;

if ((d == NULL) && (rear == NULL))

{

printf("NO snacks selected\n");

```

```

    return;
}
while(d!=rear)
{
    (d->x==1)?(printf("coke and popcorn")):
    (d->x==2)?(printf("coke and nachos")):printf("popcorn and nachos");
    d=d->link;
}
if(d==rear)
{
    (d->x==1)?(printf("coke and popcorn")):
    (d->x==2)?(printf("coke and nachos")):printf("popcorn and nachos");
}
}

printf("\nprice :%d\n",netprice);
printf("Time of booking :%s\n", asctime (loc_time));
printf("Would you like to book again?(1==Y)\n");
scanf("%d",&rebook);
if(rebook==1)
start();

printf("Would you like to cancel any tickets?(1==Y)\n");
scanf("%d",&cancel);

```



```

    if(cancel==1)
        cancelseat();
}

int cancelseat()
{
    int CanSeats,i,SubtractedPrice=0,NewPrice;

    seats *c=(seats*)malloc(sizeof(seats));

    printf("how many seats would you like to cancel?\n");

    scanf("%d",&CanSeats);

    int cseats[CanSeats];

    printf("enter seats to cancel\n");

    for(i=0;i<CanSeats;i++)
    {
        scanf("%d",&cseats[i]);
    }

    if(theatre==1&&slot==1)
        c=head1;

    else if(theatre==1&&slot==2)
        c=head2;

    else if(theatre==2&&slot==1)
        c=head3;

    else if(theatre==2&&slot==2)

```

```

c=head4;
for(i=0;i<CanSeats;i++)
{
    while(c->seatnum!=cseats[i])
    {
        c=c->next;
    }
    if(c->seatnum==cseats[i])
    {
        if(c->status==0)
            printf("seat %d isn't booked\n",c->seatnum);
        else
            c->status=0;
        printf("seat %d is cancelled successfully\n",c->seatnum);
    }
}
printf("Seat cancellation successfull\n");
for(i=0;i<CanSeats;i++)
{
    if(cseats[i]<61)
        SubtractedPrice+=60;
    else if(cseats[i]<181)

```

```
        SubtractedPrice+=120;

        else if(cseats[i]<205)

            SubtractedPrice+=200;

    }

    NewPrice=netprice-SubtractedPrice;

    printf("New price is %d\n",NewPrice);

}
```

6. OUTPUT/RESULTS

```
WELCOME TO MOVIE BOOKING SITE!!!
1. Login Through An Existing Account
2. Create New account
3.exit
2
Choose A Username: ramakanth
Choose A Password: sathwik
Account created successfully!!!
```

```
-----  
WELCOME TO MOVIE BOOKING SITE!!!  
1. Login Through An Existing Account  
2. Create New account  
3.exit  
1  
Username: ramakanth  
Password: sathwik  
User ID is valid  
Match password  
1Is COVID-19 still prevalent??  
If yes press 1 If no press 0  
1  
How would you like to browse:  
1)As per theatre  
2)As per movie  
1  
list of theatres available:  
1)Cinepolis  
2)Inox  
  
CHOOSE ONE AMONG THESE  
1  
list of movies available:  
1)ironman  
2)tenet  
3)baahubali  
4)joker  
5)bridge
```

```
5)bridge
6)batman

CHOOSE ONE AMONG THESE
1
SHOW TIMMINGS:
1)11:00
2)06:00
CHOOSE ONE AMONG THESE
1
ENTER NUMBER OF SEATS:
1

CHOOSE YOUR SEATS AMONG THE FOLLOWING CLASSES

<>Silver==>
price:60
Seat numbers:1-60
seats in a row:12
Rows:5

<>Gold==>
price:120
Seat numbers:61-180
seats in a row:12
Rows:10

<>Diamond==>
price :200
```

```
price:120  
Seat numbers:61-180  
seats in a row:12  
Rows:10
```

```
<>Diamond==>  
price :200  
Seat numbers:181-204  
seats in a row:12  
Rows:2
```

CORNER SEATS:

```
1 12  
13 24  
25 36  
37 48  
49 60  
61 72  
73 84  
85 96  
97 108  
109 120  
121 132  
133 144  
145 156  
157 168  
169 180  
181 192  
193 204
```

available seats are:											
-----SCREEN-----											
1	*	3	*	5	*	7	*	9	*	11	*
13	*	15	*	17	*	19	*	21	*	23	*
25	*	27	*	29	*	31	*	33	*	35	*
37	*	39	*	41	*	43	*	45	*	47	*
49	*	51	*	53	*	55	*	57	*	59	*
61	*	63	*	65	*	67	*	69	*	71	*
73	*	75	*	77	*	79	*	81	*	83	*
85	*	87	*	89	*	91	*	93	*	95	*
97	*	99	*	101	*	103	*	105	*	107	*
109	*	111	*	113	*	115	*	117	*	119	*
121	*	123	*	125	*	127	*	129	*	131	*
133	*	135	*	137	*	139	*	141	*	143	*
145	*	147	*	149	*	151	*	153	*	155	*
157	*	159	*	161	*	163	*	165	*	167	*

49	*	51	*	53	*	55	*	57	*	59	*
61	*	63	*	65	*	67	*	69	*	71	*
73	*	75	*	77	*	79	*	81	*	83	*
85	*	87	*	89	*	91	*	93	*	95	*
97	*	99	*	101	*	103	*	105	*	107	*
109	*	111	*	113	*	115	*	117	*	119	*
121	*	123	*	125	*	127	*	129	*	131	*
133	*	135	*	137	*	139	*	141	*	143	*
145	*	147	*	149	*	151	*	153	*	155	*
157	*	159	*	161	*	163	*	165	*	167	*
169	*	171	*	173	*	175	*	177	*	179	*
181	*	183	*	185	*	187	*	189	*	191	*
193	*	195	*	197	*	199	*	201	*	203	*
Select the seats:											
199											


```
Select the seats:
199
would you like to buy snacks?
if yes press 1 else 0
1
choose your snacks:
1.coke and popcorn=>price:250
2.coke and nachos=>price:300
3.popcorn and nachos=>price:350
2
would you like to buy more snacks?
if yes press 1 if no press 0
0
-----
CONGRATULATIONS YOUR SEATS ARE BOOKED!!!!
DETAILS:
Movie :ironman
theatre :Cinepolis
No. of seats :1
slot :11:00AM
Selectedseats:199
snacks:coke and nachos
price :500
Time of booking :Thu Dec 10 19:39:44 2020

Would you like to book again?(1=Y)
```

```
Would you like to book again?(1==Y)
```

```
1
```

```
How would you like to browse:
```

```
1)As per theatre
```

```
2)As per movie
```

```
1
```

```
list of theatres available:
```

```
1)Cinepolis
```

```
2)Inox
```

```
CHOOSE ONE AMONG THESE
```

```
1
```

```
list of movies available:
```

```
1)ironman
```

```
2)tenet
```

```
3)baahubali
```

```
4)joker
```

```
5)bridge
```

```
6)batman
```

```
CHOOSE ONE AMONG THESE
```

```
1
```

```
SHOW TIMMINGS:
```

```
1)11:00
```

```
2)06:00
```

```
CHOOSE ONE AMONG THESE
```

```
1
```

```
ENTER NUMBER OF SEATS:
```

```
1
```

CHOOSE ONE AMONG THESE

1

SHOW TIMMINGS:

1)11:00

2)06:00

CHOOSE ONE AMONG THESE

1

ENTER NUMBER OF SEATS:

1

CHOOSE YOUR SEATS AMONG THE FOLLOWING CLASSES

<>Silver==>

price:60

Seat numbers:1-60

seats in a row:12

Rows:5

<>Gold==>

price:120

Seat numbers:61-180

seats in a row:12

Rows:10

<>Diamond==>

price :200

Seat numbers:181-204

seats in a row:12

Rows:2

```
<>Diamond==>  
price :200  
Seat numbers:181-204  
seats in a row:12  
Rows:2
```

CORNER SEATS:

```
1 12  
13 24  
25 36  
37 48  
49 60  
61 72  
73 84  
85 96  
97 108  
109 120  
121 132  
133 144  
145 156  
157 168  
169 180  
181 192  
193 204
```

available seats are:											
-----SCREEN-----											
1	*	3	*	5	*	7	*	9	*	11	*
13	*	15	*	17	*	19	*	21	*	23	*
25	*	27	*	29	*	31	*	33	*	35	*
37	*	39	*	41	*	43	*	45	*	47	*
49	*	51	*	53	*	55	*	57	*	59	*
61	*	63	*	65	*	67	*	69	*	71	*
73	*	75	*	77	*	79	*	81	*	83	*
85	*	87	*	89	*	91	*	93	*	95	*
97	*	99	*	101	*	103	*	105	*	107	*
109	*	111	*	113	*	115	*	117	*	119	*
121	*	123	*	125	*	127	*	129	*	131	*
133	*	135	*	137	*	139	*	141	*	143	*
145	*	147	*	149	*	151	*	153	*	155	*
157	*	159	*	161	*	163	*	165	*	167	*

49	*	51	*	53	*	55	*	57	*	59	*
61	*	63	*	65	*	67	*	69	*	71	*
73	*	75	*	77	*	79	*	81	*	83	*
85	*	87	*	89	*	91	*	93	*	95	*
97	*	99	*	101	*	103	*	105	*	107	*
109	*	111	*	113	*	115	*	117	*	119	*
121	*	123	*	125	*	127	*	129	*	131	*
133	*	135	*	137	*	139	*	141	*	143	*
145	*	147	*	149	*	151	*	153	*	155	*
157	*	159	*	161	*	163	*	165	*	167	*
169	*	171	*	173	*	175	*	177	*	179	*
181	*	183	*	185	*	187	*	189	*	191	*
193	*	195	*	197	*	*	*	201	*	203	*

Here seat 199 is blocked since it was already booked by other user.

```
Select the seats:
195
would you like to buy snacks?
if yes press 1 else 0
1
choose your snacks:
1.coke and popcorn=>price:250
2.coke and nachos=>price:300
3.popcorn and nachos=>price:350
3
would you like to buy more snacks?
if yes press 1 if no press 0
0
-----
CONGRATULATIONS YOUR SEATS ARE BOOKED!!!!
DETAILS:
Movie :ironman
theatre :Cinepolis
No. of seats :1
slot :11:00AM
Selectedseats:195
snacks:coke and nachospopcorn and nachos
price :550
Time of booking :Thu Dec 10 19:41:06 2020

Would you like to book again?(1=Y)
```

```
slot :11:00AM
Selectedseats:195
snacks:popcorn and nachos
price :550
Time of booking :Thu Dec 10 19:45:53 2020

Would you like to book again?(1==Y)
0
Would you like to cancel any tickets?(1==Y)
1
how many seats would you like to cancel?
1
enter seats to cancel
195
seat 195 is cancelled successfully
Seat cancellation successfull
New price is 350
THANKYOU!!!
VISIT AGAIN
```

```
...Program finished with exit code 0
```

```
Press ENTER to exit console.
```

```
main.c user.dat :
```

```
1 ramakanth.sathwik...
```

Files are used to store user login credentials.

7. CONCLUSION

To conclude, this software helps people book movie tickets in a very user friendly and also efficient way. This especially serves the purpose of booking of tickets amongst pandemic crisis.

8. REFERENCES

- **Data structures tutorials on youtube Naresh IT Channel**
- **Fundamentals of data structures in C- Ellis Horowitz**