

MOVIE TICKET BOOKING SYSTEM

Team 10 TECHNOMANIA (Group 1)

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Source Code

```
#include<iostream>

#include<stdlib.h>

using namespace std;

string arr[]{"BAAGHI 3","ANGREZI MEDIUM","THAPPAD"};

string arr2[]{"INOX","CINEMAX","CITY PRIDE"};

string arr4[]{"9.00AM","3.00PM","6.00PM"};

class node
{
    char row_no;

    int seat_no,pin;

    char book;

    double time_t;

    node *next,*prev;

    friend class MovieB;

    friend class time;
};

class MovieB
{
    public:
```

```

        node *head;
MovieB()
{
    head=NULL;
}
public:
    void create()
    {
        node *newnode,*temp;

        int j=1;

        volatile int k=2;

        char c ='A';

do
{
    int i=1;
do
{
    k=(k*k)/10+100-k/2;
    newnode=new node();
    newnode->next=newnode->prev=NULL;
    newnode->row_no=c;
    newnode->seat_no=i;
    newnode->pin=k;
    newnode->book='a';
    if(head==NULL)
    {
        head=newnode;
        newnode->next=newnode->prev=head;
    }
else

```

```

{
    temp=head;

    while(temp->next!=head)
        temp=temp->next;

    temp->next=newnode;
    newnode->prev=temp;
    newnode->next=head;
    head->prev=newnode;
}

i++;
} while(i<=7);

j++;

c++;
} while(j<=10);
}

void display()
{
    node *temp;
    temp=head;
    cout<<"-----\n";
    cout<<"|          Platinum          |\n";
    while(temp->next!=head)
    {
        if((temp->prev)->row_no!=temp->row_no)
            cout<<"| ";
        cout<<temp->row_no;
        cout<<temp->seat_no;
        if(temp->book=='a')

```

```

cout << "\033[32;40m -> a \033[0m"; //green text with black background

else

cout << "\033[1;31;43m -> b \033[0m"; //red text

if((temp->next)->row_no!=temp->row_no)

cout<<"|\n";

if(temp->row_no=='C'&&temp->seat_no==7)

{

    cout<<"-----\n";

    cout<<"|          gold          |\n";

}

if(temp->row_no=='H'&&temp->seat_no==7)

{

    cout<<"-----\n";

    cout<<"|          Silver          |\n";

}

    temp=temp->next;

}

cout<<temp->row_no;

cout<<temp->seat_no;

if(temp->book=='a')

cout << "\033[32;40m -> a \033[0m"; //green text with black background

else

cout << "\033[1;31;43m -> b \033[0m"; //red text

cout<<"|\n";

cout<<"-----\n\n";

cout<<"\033[1;33;49mPLATINUM-> 150          GOLD-> 100          SILVER->60\033[0m\n";

}

void display1(node *ar3[20],int n,int k,int t,string a)

```

```

{
    if(n!=1)
    {
        if(k>-1)
        {
            cout<<"-----\n";
            cout<<"THANK YOU!\nYOU HAVE SUCCESFULLY BOOKED TIKET AT "<<arr2[k]<<endl;
            cout<<"BOOKED MOVIE NAME: "<<arr[t]<<endl;
            cout<<"SHOW TIME    : "<<a<<endl;
            for(int i=1;i<n;i++)
            {
                cout<<"SETNO : "<<ar3[i]->row_no<<ar3[i]->seat_no<<endl;
                cout<<"PIN  : "<<ar3[i]->pin<<"\n";
            }
            cout<<"!!!!!!!!!!!!!!!!!!KEEP PIN SAFELY!!!!!!!!!!!!!!!!!!!!\n";
            cout<<"PINS ARE REQUIRED AT THE TIME OF CANCELATION OF SEATS\n";
            cout<<"-----\n";
        }
    }
}

void book_seat(int s,int t,string a)
{
    node *temp;
    node *arr3[20];
    int n,z,flag;
    char row;
    int seat;
    char ch;
    do
    {
        z=1;

```

```
cout<<"\nEnter No Of Tickets u Want To Buy: ";
```

```
cin>>n;
```

```
cout<<"\nEnter Seat Number(s): \n";
```

```
for(int i=1;i<=n;i++)
```

```
{
```

```
    cout<<"NO "<<i<<" = ";
```

```
    cin>>row>>seat;
```

```
    temp=head;
```

```
    while(temp->next!=head)
```

```
{
```

```
    if(temp->row_no==row && temp->seat_no==seat)
```

```
{
```

```
    if(temp->book=='a')
```

```
{
```

```
    temp->book='b';
```

```
    arr3[z]=temp;
```

```
    z++;
```

```
}
```

```
else
```

```
{
```

```
    cout<<"INVALID CHOISE!\n";
```

```
    cout<<temp->row_no<<temp->seat_no<<" Seat is alredy reserved \n";
```

```
}
```

```
}
```

```
    temp=temp->next;
```

```
}
```

```
if(temp->row_no==row && temp->seat_no==seat)
```

```
{
```

```

        if(temp->book=='a')
        {
            temp->book='b';
            arr3[z]=temp;
            z++;
        }
        else
        {
            cout<<"INVALID CHOISE!\n";
            cout<<temp->row_no<<temp->seat_no<<" Seat is alredy reserved\n";
        }
    }
}

display1(arr3,z,s,t,a);

cout<<"\n\nPRESS 1 To check Seat Status\n";
cout<<"PRESS 2 To book other seat\n";
cout<<"PRESS 3 To Exit BOOKING PORTAL\n";

    cout<<"\ninput: ";

    cin>>ch;

    if(ch==1)
        display();
}while(ch=='2');
}

```

```

void cangle()
{
    char row,ch;
    int seat,pin;
    node *temp;

    do
    {

```

```

    ch='a';

    temp=head;

    cout<<"SEAT NUMBRE :";

    cin>>row>>seat;

    cout<<"PIN :";

    cin>>pin;

    while(temp->next!=head)
    {
        if(temp->row_no==row && temp->seat_no==seat && temp->pin==pin)
        {
            cout<<"Are you sure u want to cacle the Seat (y/n) ";

            char c;

            cin>>c;

            if(c=='y' || c=='Y')
            {
                cout<<"SEAT CANCELED SUCCESFULLY!\n";

                temp->book='a';

            }
        }

        else if(temp->row_no==row && temp->seat_no==seat && temp->pin!=pin)
        {
            cout<<"invalid SEAT NUMBER && PIN combination!!!!\n";

        }

        temp=temp->next;
    }

    if(temp->row_no==row && temp->seat_no==seat && temp->pin==pin)
    {
        cout<<"Are you sure u want to cacle (y/n) ";

        char c;

        cin>>c;

        if(c=='y' || c=='Y')

```



```

{
    cout<<"SEAT CANCELED SUCCESFULLY!\n";
    temp->book='a';
}
}

else if(temp->row_no==row && temp->seat_no==seat && temp->pin!=pin)
{
    cout<<"invalid SEAT NUMBER && PIN combination!!!!\n";
}

cout<<"\n\nPRESS 1 To Check Seat Status\n";
cout<<"PRESS 2 To Cance More Tickets\n";
cout<<"PRESS 3 To Exit CANCELATION PORTAL\n";
cout<<"\ninput: ";
cin>>ch;
if(ch==1)
display();
}while(ch=='2');
}

int add()
{
    cout<<"Movie Name : "<<endl;
    cout<<"1. BAGHI 3"<<endl;
    cout<<"2. ANGREZI MEDIUM"<<endl;
    cout<<"3. THAPPAD"<<endl;
}

int show()
{
    for(int i=0;i<3;i++)
    {
        cout<<"\033[32;40m -> "<<arr4[i]<<" \033[0m"<<" ";
    }
}

```

```

}
string choieshow(string arr4[],string s)
{
    int j=0;
    for(int i=0;i<3;i++)
    {
        if(arr4[i]==s)
        {
            i=0;
            return arr4[i];
            break;
        }
    }
}
};

```

```

int main()
{
    MovieB o;
    Int s;
    string a;
    o.add();
    int l;
    double y;
    cout<<"SELECT YOURE MOVIE :";
    cin>>l;
    cout<<arr[l-1]<<endl;
    if(l>0)
    {
        cout<<"THIS MOVIE IS AVAILABLE IN ALL THEATER CHOOSE YOUR FAVORITE THEATER\n";
        cout<<"PRESS 1-> INOX\n";
    }
}

```

```

    cout<<"PRESS 2-> CINEMAX\n";

    cout<<"PRESS 3-> CITY PRIDE\n";

    cout<<"PRESS 4-> EXIT\n";


    cout<<"SELECT YOUER THEATER CHOISE :";

    cin>>s;

    if(s>-1){

        cout<<"\n\n\n";

        cout<<"          @@@@@"<<arr2[s-1]<<" @@@@@"<<"\n";

        cout<<"          vvvvvv ARRANGEMENT vvvvvv\n\n";

        o.create();

        o.display();

        cout<<"\n\n";

        o.show();

        cout<<"SELECT SHOW"<<endl;

        cin>>a;

        o.choiseshow(arr4,a);

    }

    if(s==4)

    {

        exit(0);

    }

}

int ch;

char c;

do

{

    cout<<"\n\n\n";

    cout<<"PRESS 1-> BOOK TICKETS\n";

    cout<<"PRESS 2-> CANCEL TICKETS\n";

    cout<<"PRESS 3-> EXIT\n";

```

```

cout<<"\ninput: ";

cin>>ch;

switch(ch)
{
    case 1:
        o.book_seat(s,l,a);
        o.display();
        break;
    case 2:
        o.candle();
        o.display();
        break;
    case 3:
        break;
}

if(ch!=3)
{
    cout<<"\n\nPRESS 1 To Main Menu\n";
    cout<<"PRESS 2 To Exit CINEMAX PORTAL\n";
    cout<<"\ninput: ";
    cin>>c;
}

}while(c=='1');

    cout<<"\n\n\n";

    return 0;

}

```

Select Movie Name

```
Movie Name :
1. BAGHI 3
2. ANGREZI MEDIUM
3. THAPPAD
SELECT YOURE MOVIE :1
BAAGHI 3
THIS MOVIE IS AVAILBLE IN ALL THEATER CHOOSE YOUR FAVORITE THEATER
PRESS 1-> INOX
PRESS 2-> CINEMAX
PRESS 3-> CITY PRIDE
PRESS 4-> EXIT
SELECT YOURE THEATER CHOISE :1

          eeeeeee  INOX  eeeeeee
        vvvvvvv  ARRANGEMENT  vvvvvvv

-----
|                                     |
|               Platinum             |
| A1 -> a  A2 -> a  A3 -> a  A4 -> a  A5 -> a  A6 -> a  A7 -> a  |
| B1 -> a  B2 -> a  B3 -> a  B4 -> a  B5 -> a  B6 -> a  B7 -> a  |
| C1 -> a  C2 -> a  C3 -> a  C4 -> a  C5 -> a  C6 -> a  C7 -> a  |
|-----|
|               gold                 |
| D1 -> a  D2 -> a  D3 -> a  D4 -> a  D5 -> a  D6 -> a  D7 -> a  |
|-----|
```

Enter number of ticket you want to buy and Enter seat number

```

Enter No Of Tickets u Want To Buy: 3

Enter Seat Number(s):
NO 1 = A1
NO 2 = A2
NO 3 = A3
-----
THANK YOU!
YOU HAVE SUCCESFULLY BOOKED TIKET AT CENEMAX
BOOKED MOVIE NAME:  ANGREZI MEDIUM
SHOW TIME          :  9.00AM
SETNO :  A1
PIN   :  99
SETNO :  A2
PIN   :  1031
SETNO :  A3
PIN   :  105881
!!!!!!!!!!!!!!!!!!!!KEEP PIN SAFELY!!!!!!!!!!!!!!!!!!!!
PINS ARE REQUIRED AT THE TIME OF CANCELATION OF SEATS
-----

PRESS 1 To check Seat Status
PRESS 2 To book other seat
PRESS 3 To Exit BOOKING PORTAL

input:

```

Check status of your booking:

```

PRESS 2 To book other seat
PRESS 3 To Exit BOOKING PORTAL

input: 1
-----
|                                     Platinum                                     |
| A1 -> b A2 -> b A3 -> b A4 -> a A5 -> a A6 -> a A7 -> a |
| B1 -> b B2 -> b B3 -> a B4 -> a B5 -> a B6 -> a B7 -> a |
| C1 -> a C2 -> a C3 -> a C4 -> a C5 -> a C6 -> a C7 -> a |
|-----|
|                                     gold                                     |
| D1 -> a D2 -> a D3 -> a D4 -> a D5 -> a D6 -> a D7 -> a |
| E1 -> a E2 -> a E3 -> a E4 -> a E5 -> a E6 -> a E7 -> a |
| F1 -> a F2 -> a F3 -> a F4 -> a F5 -> a F6 -> a F7 -> a |
| G1 -> a G2 -> a G3 -> a G4 -> a G5 -> a G6 -> a G7 -> a |
| H1 -> a H2 -> a H3 -> a H4 -> a H5 -> a H6 -> a H7 -> a |
|-----|
|                                     Silver                                     |
| I1 -> a I2 -> a I3 -> a I4 -> a I5 -> a I6 -> a I7 -> a |
| J1 -> a J2 -> a J3 -> a J4 -> a J5 -> a J6 -> a J7 -> a |
|-----|

PLATINUM-> 150                                GOLD-> 100                                SILVER->60

PRESS 1 To Main Menu
PRESS 2 To Exit CINEMAX PORTAL

input: 

```

Cancel Ticket

```
PLATINUM-> 150          GOLD-> 100          SILVER->60

PRESS 1 To Main Menu
PRESS 2 To Exit CINEMAX PORTAL

input: 1

PRESS 1-> BOOK TICKETS
PRESS 2-> CANCEL TICKETS
PRESS 3-> EXIT

input:
2
SEAT NUMBRE :A1
PIN :99
Are you sure u want to cancle the Seat (y/n) y
SEAT CANCELED SUCCESFULLY!

PRESS 1 To Check Seat Status
PRESS 2 To Cancle More Tickets
PRESS 3 To Exit CANCELATION PORTAL

input: 
```

Status of Cancel ticket:

```
PRESS 2 To Cancle More Tickets
PRESS 3 To Exit CANCELATION PORTAL

input: 1

-----
|                                     Platinum                                     |
| A1 -> a A2 -> b A3 -> b A4 -> a A5 -> a A6 -> a A7 -> a |
| B1 -> b B2 -> b B3 -> a B4 -> a B5 -> a B6 -> a B7 -> a |
| C1 -> a C2 -> a C3 -> a C4 -> a C5 -> a C6 -> a C7 -> a |
|-----|
|                                     gold                                     |
| D1 -> a D2 -> a D3 -> a D4 -> a D5 -> a D6 -> a D7 -> a |
| E1 -> a E2 -> a E3 -> a E4 -> a E5 -> a E6 -> a E7 -> a |
| F1 -> a F2 -> a F3 -> a F4 -> a F5 -> a F6 -> a F7 -> a |
| G1 -> a G2 -> a G3 -> a G4 -> a G5 -> a G6 -> a G7 -> a |
| H1 -> a H2 -> a H3 -> a H4 -> a H5 -> a H6 -> a H7 -> a |
|-----|
|                                     Silver                                     |
| I1 -> a I2 -> a I3 -> a I4 -> a I5 -> a I6 -> a I7 -> a |
| J1 -> a J2 -> a J3 -> a J4 -> a J5 -> a J6 -> a J7 -> a |
|-----|

PLATINUM-> 150          GOLD-> 100          SILVER->60

PRESS 1 To Main Menu
PRESS 2 To Exit CINEMAX PORTAL

input: 
```

