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A Report on Open Ended Problem titled “Online Movie Ticket Booking”

submitted
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Bachelor of Engineering

In

Computer Science

by

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ABSTRACT

The traditional method of purchasing movie tickets involves standing in long queues and manually booking tickets at the theater counter. This process is not only time-consuming but also inconvenient for customers who may have other commitments or prefer to plan their movie viewing in advance. Additionally, the manual ticket booking system can result in errors and confusion in ticket allocation, leading to unhappy customers and potential loss of revenue for theaters.

To solve this problem the best solution is to book tickets online theater with *FlickTicket* is a movie ticket reservation system that can be easily accessed by people to book tickets This system will automate the reservation of tickets and enquiries about availability of tickets. This system includes email conformation for the tickets.

Data structures used:

- Structure
- Arrays
- Linked list

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CHAPTER 1

INTRODUCTION

Online movie tickets booking is an application which allows users to book movie tickets. It is user friendly application the code is written in C programming language

In the main menu user can select one of the following options

- 1 Display available tickets
- 2 Book tickets
- 3 Cancel tickets
- 4 Exit

Firstly, the user needs to create name and email id and select one of the above options

When the user selects the first option the application will display available tickets user can see which tickets have not yet been booked and can proceed with booking option

When user selects this option, firstly they have to enter their name and valid email id. After that user can select seat number from available seats. Booked seats be marked with symbol (X_0_X) in the display. User can book at most 5 seats at a time once the seats are booked the confirmation will be sent to registered email id.

If user wants to cancel his tickets, they can select third option. User have to enter the seat number for cancelling the tickets. Then the system will cancel that ticket and make sure that seat available for other users.

CHAPTER 2

PROBLEM STATEMENT

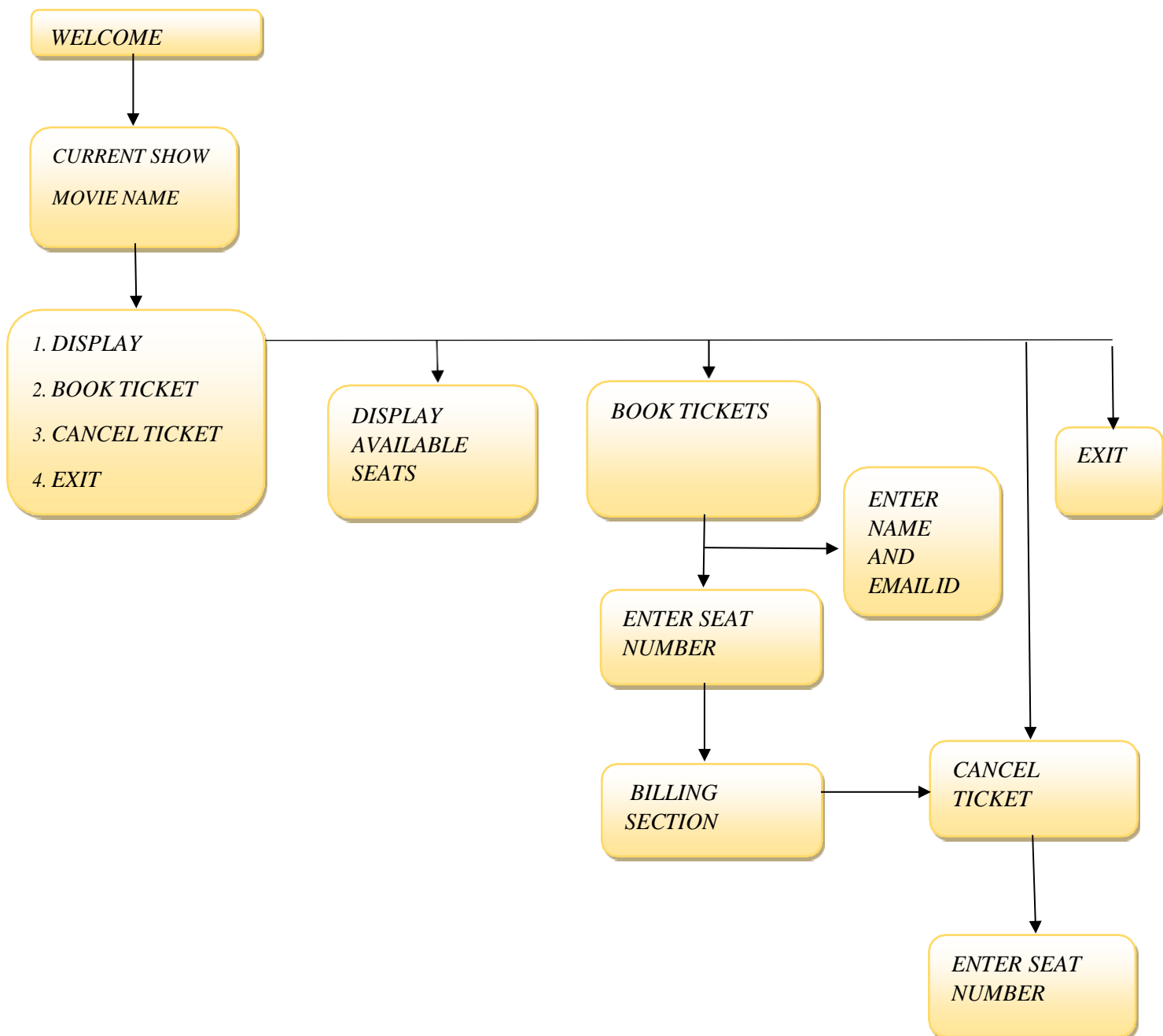
To build an application for online movie ticket booking using users can book movie tickets easily and can cancel tickets if they wish to . the code is written using functions , array , linked list through C programming language.

OBJECTIVES

- **To** create an application which will help users to book online movie tickets easily
- Book tickets by entering name and valid email id
- Select the preferred seat among available seats
- Cancel ticket easily by entering seat number

CHAPTER 3

DESIGN OF ALGORITHM



IMPLEMENTATION OF CODE

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

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

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

```
#include <ctype.h>
```

```
typedef struct node  
{  
    int    info;  
    char d[5];  
    struct node *next;  
} NODE;
```

```
int i, j;  
int t[4];  
float price = 150;  
int flag;
```

```
NODE *inslast(NODE *first, int data)  
{  
    NODE *temp, *newnode;  
    newnode = (NODE *)malloc(sizeof(NODE));  
    newnode->info = data;  
    strcpy(newnode->d, "|");  
    newnode->next = NULL;  
    if (first == NULL)  
    {  
        first = newnode;  
    }  
    else  
    {
```

```
temp = first;
while (temp->next != NULL)
    temp = temp->next;
temp->next = newnode;
}
return first;
}

void display(NODE *first)
{

    NODE *temp;
    temp = first;
    while (temp != NULL)
    {
        for (i = 0; i < 10; i++)
        {
            for (j = 0; j < 10; j++)
            {
                printf("\t%s_%d_%s\t", temp->d, temp->info, temp->d);
                temp = temp->next;
            }
            printf("\n\n");
        }
    }
}

void bill(int t[], int n)
{
    int k;

    printf("\n\n\t\t\t\t\tAvatar : The Way of Water (ENGLISH)\t\t@ 6 PM\n\n\n");printf("\n\t\t\t\t\tSeat

numbers:\n\n");
printf("\t\t\t\t\t");
for (k = 0; k < n; k++)
    printf("\t%d\t", t[k]);
printf("\n\n\t\t\t\t\tAmount : \t\t %d x %.2f : %.2f\n", n, price, n * price);
```



```
int check(NODE *first, int t[], int n)
{
    int g = 0;
    // int g,sp;

    NODE *temp;
    temp = first;
```



```
while (g < n)

{
    temp = first;
    while (temp != NULL)
    {
        if (temp->info == t[g])
        {
            g++;
            break;
        }
        else if (temp->next != NULL)
        {
            temp = temp->next;
        }
        else
            return 1;
    }
}

// Alternate code....
/*

while (temp != NULL)
{

    for (g = 0; g < n; g++)
    {
        temp = first;
        for (sp = 1; sp < t[g]; sp++)
        {
            temp = temp->next;
        }
        if (temp->info != sp)
            return 1;
    }
}

*/

return 0;
```

```
}
```

```
NODE *cancel(NODE *first, int s)
```

```
{
```

```
    int pos = 1;
```

```
    NODE *temp;
```

```
    temp = first;
```

```
    while (pos < s)
```

```
    {
```

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

```
        pos++;
```

```
    }
```

```
    if (strcmp(temp->d, "X") == 0)
```

```
    {
```

```
        temp->info = pos;
```

```
        strcpy(temp->d, "|");
```

```
        flag = 1;
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("\n\n\t\t\t\t\tInvalid seat number...\tEntered seat number is not booked...\n\n\n");
```

```
        flag = 0;
```

```
    }
```

```
    return first;
```

```
}
```

```
int main()
```

```
{
```

```
    int data, k, b = 100, n, choice, s, h = 0, l;
```

```
    system("COLOR 70");
```

```
    char person[20];
```

```
    char mail[20];
```

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case 2:

[illegible]

```
if(h==1)
{
```

```
printf("\n\n\t\t\t\t\tEnter your name:");
```

```
scanf("%s",person);
printf("\n\n\t\t\t\t\tEnter your mail id:");
scanf("%s",mail);
```

```
}  
display(first);  
printf("\n\n\t\t\t\t\tAvailable tickets: %d\n", b);
```

u:

```
printf("\n\nEnter number of tickets you wish to book(MAX 5 tickets per person:");
scanf("%d", &n);
if (n > 5)
{
    printf("\n\nExceeding max number of seats per person allowed to book.\n");
    goto u;
}
```

GO:

```
printf("\n\n\t\t\t\t\tEnter the seat numbers to book tickets:");
for (k = 0; k < n; k++)
{
    scanf("%d", &t[k]);

    if (t[k] > 100 || t[k] < 1)
    {
        printf("\n\t\t\t\t\tInvalid seat number");
        printf("\n\t\t\t\t\tTry again.\n");
        goto GO;
    }
}
```

```

    }
}

if (check(first, t, n) > 0)
{
    printf("\n\n\t\t\t\t\tSome of the entered seats are already booked..\n\n\t\t\t\t\tPlease select available seats...\n\n");
    goto GO;
}

printf("\n\n\t\t\t\t\tTickets with seat numbers:\n");
printf("\n\t\t\t\t\t");
for (k = 0; k < n; k++)
    printf("\t%d\t", t[k]);
printf("\n\t\t\t\t\t booked successfully...\n\n\t\t\t\t\tPlease proceed with payment to confirm your booking.\n");
printf("\n\n\t\t\t\t\tPress ENTER to proceed with the payment\n\n\n");
fflush(stdin);
printf("\n\n\n\t\t\t\t\t.....\n");
printf("\t\t\t\t\t BILLING SECTION\n");
printf("\t\t\t\t\t.....\n\n");
for(l=0; person[l]!='\0'; l++)
    person[l]=toupper(person[l]);
printf("\n\n\t\t\t\t\tTickets are booked under the name of %s\n\n\n",person);
bill(t, n);
first = update(first, t, n);

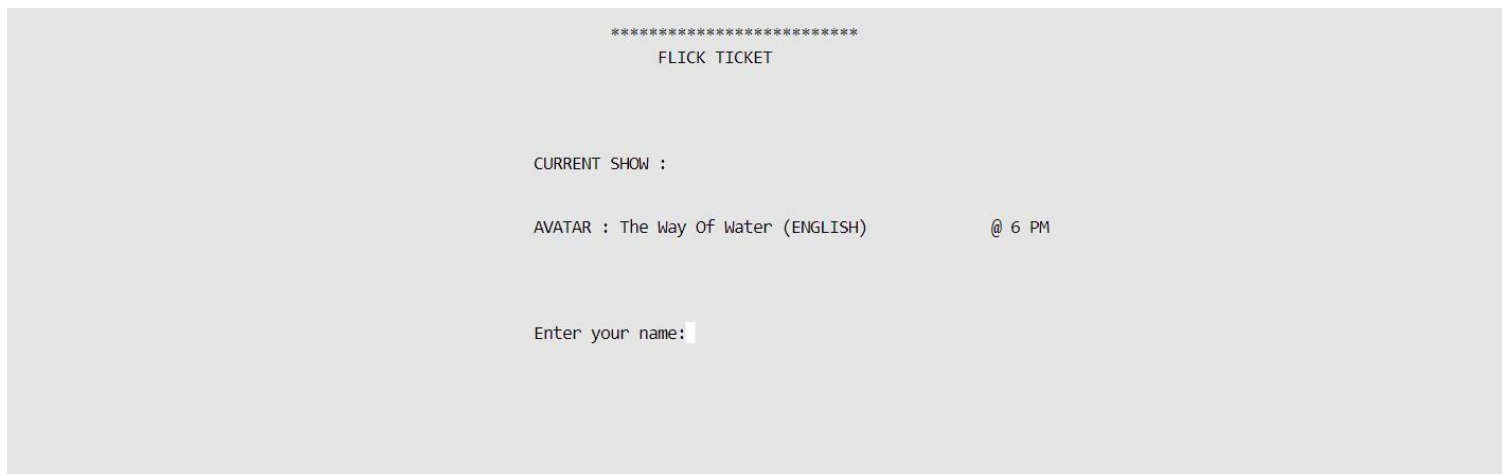
display(first);
b = b - n;
h=1;
break;

case 3:
    system("COLOR 74");
    printf("\n\n\n\t\t\t\t\t.....\n");
    printf("\t\t\t\t\t CANCELATION SECTION\n");
    printf("\t\t\t\t\t.....\n\n");
    printf("\n\n\t\t\t\t\tEnter the seat number you wish to cancel the booking for:");
    scanf("%d", &s);
    if (s <= 0 || s > 100)
```

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CHAPTER 4

RESULT ANALYSIS DETAILS



```
*****
FLICK TICKET

CURRENT SHOW :

AVATAR : The Way Of Water (ENGLISH)      @ 6 PM

Enter your name: 
```

Figure 5.1: Welcome screen

Figure 5.1 shows the welcome screen: Here in welcome screen we get input prompt to enter name and mail id

CURRENT SHOW :

AVATAR : The Way Of Water (ENGLISH) @ 6 PM

Enter your name:xyz

Enter your mail id:xy@gmail.com

1.DISPLAY AVAILABLE TICKETS

2.BOOK TICKETS

3.CANCEL TICKETS

4.EXIT

Enter your choice:

Figure 5.2: Main menu screen

Figure 5.2 Here user enter the details such as name and email id

1.DISPLAY AVAILABLE TICKETS

2.BOOK TICKETS

3.CANCEL TICKETS

4.EXIT

Enter your choice:1

AVAILABLE TICKETS

1	_2_	_3_	_4_	_5_	_6_	_7_	_8_	_9_	_10_
11	_12_	_13_	_14_	_15_	_16_	_17_	_18_	_19_	_20_
21	_22_	_23_	_24_	_25_	_26_	_27_	_28_	_29_	_30_
31	_32_	_33_	_34_	_35_	_36_	_37_	_38_	_39_	_40_
41	_42_	_43_	_44_	_45_	_46_	_47_	_48_	_49_	_50_
51	_52_	_53_	_54_	_55_	_56_	_57_	_58_	_59_	_60_
61	_62_	_63_	_64_	_65_	_66_	_67_	_68_	_69_	_70_
71	_72_	_73_	_74_	_75_	_76_	_77_	_78_	_79_	_80_
81	_82_	_83_	_84_	_85_	_86_	_87_	_88_	_89_	_90_
91	_92_	_93_	_94_	_95_	_96_	_97_	_98_	_99_	_100_

Available tickets: 100

1.DISPLAY AVAILABLE TICKETS

2.BOOK TICKETS

3.CANCEL TICKETS

4.EXIT

Enter your choice: _

Figure 5.3 Available Tickets

Figure 5.3 Here system shows the initial available tickets.

```
-----
                        BOOKING SECTION
                        -----

|_1_|  |_2_|  |_3_|  |_4_|  |_5_|  |_6_|  |_7_|  |_8_|  |_9_|  |_10_|
|_11_|  |_12_|  |_13_|  |_14_|  |_15_|  |_16_|  |_17_|  |_18_|  |_19_|  |_20_|
|_21_|  |_22_|  |_23_|  |_24_|  |_25_|  |_26_|  |_27_|  |_28_|  |_29_|  |_30_|
|_31_|  |_32_|  |_33_|  |_34_|  |_35_|  |_36_|  |_37_|  |_38_|  |_39_|  |_40_|
|_41_|  |_42_|  |_43_|  |_44_|  |_45_|  |_46_|  |_47_|  |_48_|  |_49_|  |_50_|
|_51_|  |_52_|  |_53_|  |_54_|  |_55_|  |_56_|  |_57_|  |_58_|  |_59_|  |_60_|
|_61_|  |_62_|  |_63_|  |_64_|  |_65_|  |_66_|  |_67_|  |_68_|  |_69_|  |_70_|
|_71_|  |_72_|  |_73_|  |_74_|  |_75_|  |_76_|  |_77_|  |_78_|  |_79_|  |_80_|
|_81_|  |_82_|  |_83_|  |_84_|  |_85_|  |_86_|  |_87_|  |_88_|  |_89_|  |_90_|
|_91_|  |_92_|  |_93_|  |_94_|  |_95_|  |_96_|  |_97_|  |_98_|  |_99_|  |_100_|

Available tickets: 100

Enter number of tickets you wish to book(MAX 5 tickets per person):4

Enter the seat numbers to book tickets:2

Tickets with seat numbers:
      2      4      6      8
booked successfully...

Please proceed with payment to confirm your booking.

Press ENTER to proceed with the payment
```

Figure 5.4 Booking Section

Figure 5.4 Here user can book the tickets by entering the seat number.

BILLING SECTION

Tickets are booked under the name of XYZ

AVATAR : The Way Of Water @ 6 PM

Seat numbers:
2 4 6 8

Amount : 4 x 150.00 : 600.00
+ gst(10%)

Payable amount : 660.00

Booking confirmation has been sent your mail.
....Enjoy the movie....

1	x_0_x	_3_	x_0_x	_5_	x_0_x	_7_	x_0_x	_9_	_10_
11	_12_	_13_	_14_	_15_	_16_	_17_	_18_	_19_	_20_
21	_22_	_23_	_24_	_25_	_26_	_27_	_28_	_29_	_30_

Figure 5.5 Billing Section

Figure 5.5 After the tickets are booked the system will generate the bill for user confirmation.

```
Enter your choice:3

-----
CANCELATION SECTION
-----

Enter the seat number you wish to cancel the booking for:2

1.DISPLAY AVAILABLE TICKETS
2.BOOK TICKETS
3.CANCEL TICKETS
4.EXIT

Enter your choice:3

-----
CANCELATION SECTION
-----

Enter the seat number you wish to cancel the booking for:
```

Figure 5.6 Ticket Cancellation

Figure 5.6 If the user wishes to cancel the tickets then they can cancel the tickets by entering the seat numbers.

```

4.EXIT

Enter your choice:1

-----
AVAILABLE TICKETS
-----

|_1_|    |_2_|    |_3_|    |_4_|    |_5_|    X_0_X    |_7_|    X_0_X    |_9_|    |_10_| | | | |
|_11_|   |_12_|   |_13_|   |_14_|   |_15_|   |_16_|   |_17_|   |_18_|   |_19_|   |_20_|
|_21_|   |_22_|   |_23_|   |_24_|   |_25_|   |_26_|   |_27_|   |_28_|   |_29_|   |_30_|
|_31_|   |_32_|   |_33_|   |_34_|   |_35_|   |_36_|   |_37_|   |_38_|   |_39_|   |_40_|
|_41_|   |_42_|   |_43_|   |_44_|   |_45_|   |_46_|   |_47_|   |_48_|   |_49_|   |_50_|
|_51_|   |_52_|   |_53_|   |_54_|   |_55_|   |_56_|   |_57_|   |_58_|   |_59_|   |_60_|
|_61_|   |_62_|   |_63_|   |_64_|   |_65_|   |_66_|   |_67_|   |_68_|   |_69_|   |_70_|
|_71_|   |_72_|   |_73_|   |_74_|   |_75_|   |_76_|   |_77_|   |_78_|   |_79_|   |_80_|
|_81_|   |_82_|   |_83_|   |_84_|   |_85_|   |_86_|   |_87_|   |_88_|   |_89_|   |_90_|
|_91_|   |_92_|   |_93_|   |_94_|   |_95_|   |_96_|   |_97_|   |_98_|   |_99_|   |_100_|

Available tickets: 98

1.DISPLAY AVAILABLE TICKETS
2.BOOK TICKETS
3.CANCEL TICKETS
4.EXIT

Enter your choice:

```

Figure 5.7 Available Tickets After Cancellation

Figure 5.7 Here the remaining seats will be displayed once the user cancel the tickets.

```

Available tickets: 98

1.DISPLAY AVAILABLE TICKETS
2.BOOK TICKETS
3.CANCEL TICKETS
4.EXIT

Enter your choice:2

-----
BOOKING SECTION
-----

Enter your name:sagar

Enter your mail id:mnsagar@gmail.com
|_1_|    |_2_|    |_3_|    |_4_|    |_5_|    X_0_X    |_7_|    X_0_X    |_9_|    |_10_| | | | |
|_11_|   |_12_|   |_13_|   |_14_|   |_15_|   |_16_|   |_17_|   |_18_|   |_19_|   |_20_|
|_21_|   |_22_|   |_23_|   |_24_|   |_25_|   |_26_|   |_27_|   |_28_|   |_29_|   |_30_|
|_31_|   |_32_|   |_33_|   |_34_|   |_35_|   |_36_|   |_37_|   |_38_|   |_39_|   |_40_|
|_41_|   |_42_|   |_43_|   |_44_|   |_45_|   |_46_|   |_47_|   |_48_|   |_49_|   |_50_|
|_51_|   |_52_|   |_53_|   |_54_|   |_55_|   |_56_|   |_57_|   |_58_|   |_59_|   |_60_|
|_61_|   |_62_|   |_63_|   |_64_|   |_65_|   |_66_|   |_67_|   |_68_|   |_69_|   |_70_|
|_71_|   |_72_|   |_73_|   |_74_|   |_75_|   |_76_|   |_77_|   |_78_|   |_79_|   |_80_|
|_81_|   |_82_|   |_83_|   |_84_|   |_85_|   |_86_|   |_87_|   |_88_|   |_89_|   |_90_|
|_91_|   |_92_|   |_93_|   |_94_|   |_95_|   |_96_|   |_97_|   |_98_|   |_99_|   |_100_|

Available tickets: 98

Enter number of tickets you wish to book(MAX 5 tickets per person):

```

Figure 5.8 Booking Section Of Remaining Tickets

Figure 5.8 Here another user can book the tickets for the same show.

CONCLUSION

FlickTicket - an online movie ticket booking application helps the user to book the movie tickets online in much easier way. It prevents the user from standing in a long queue to book the tickets in offline in front of the theaters or in the malls. Here the user can book or cancel the tickets by just entering the seat number.

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2. Data Structures using C/C++ - Yedidyah Langsam, Moshe J., Augenstein, Aaron M. Tenenbaum.

