

PROJECT:

Movie Ticket Management System

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SUBJECT=PROGRAMMING IN C (PROJECT)

Introduction

- This project is a simple Movie Ticket Management System developed using C programming. It allows users to book movie tickets, view movie details, and manage ticket information.

Purpose of the Project

- - To create a menu-driven movie ticket booking system.
- - To demonstrate the use of structures, file handling, and functions.
- - To provide a real-world simulation of ticket booking.

Constraints

- Only one movie record displayed at a time.
- Limited number of tickets.
- Input validation required.
- Basic text-based interface (CLI).

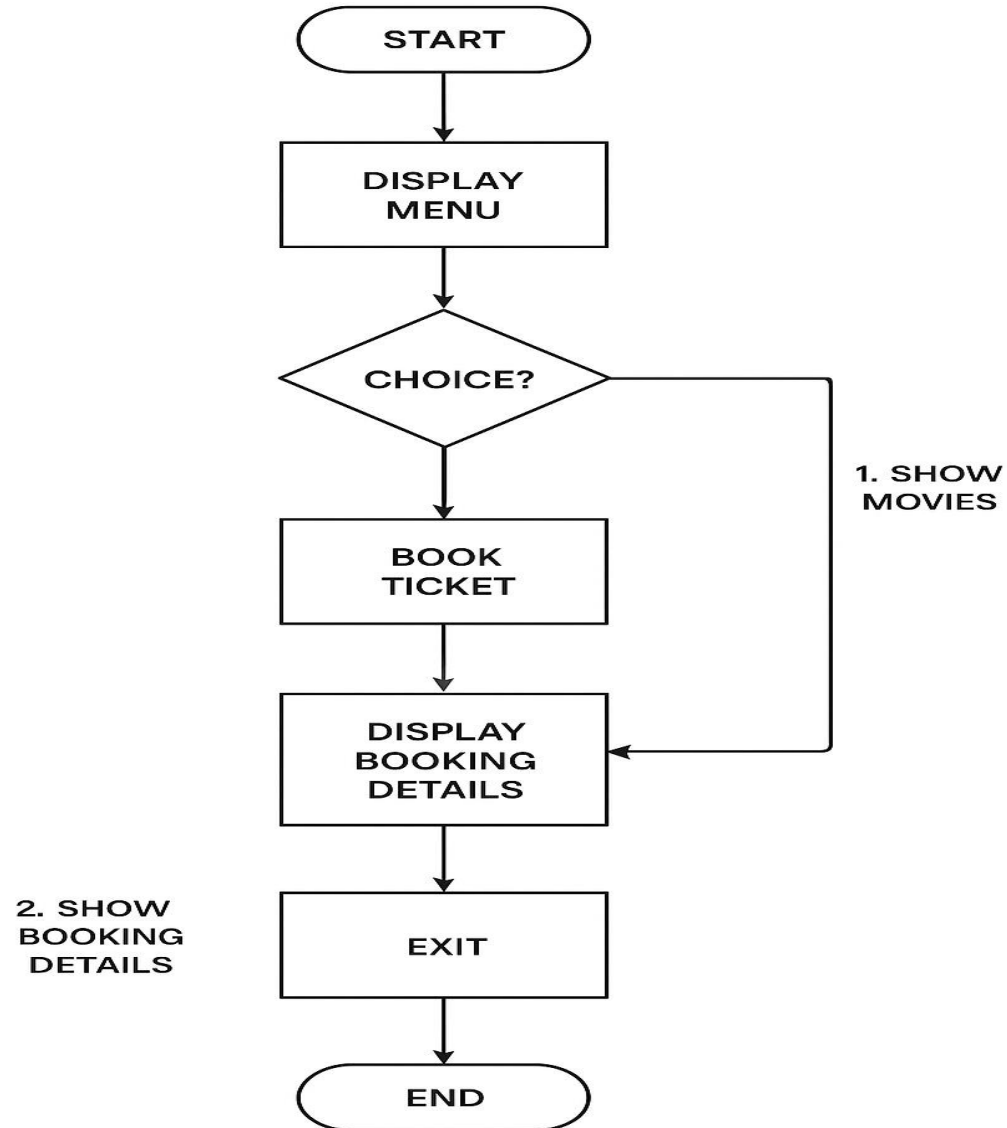
Syntax Concepts Used

- - Structures (struct)
- - File handling (fopen, fwrite, fread)
- - Functions
- - Conditional statements
- - Switch-case menu
- - Loops (for, while)

Keywords Used

- struct, FILE, fopen, fclose, fwrite, fread, if, else, switch,
- case, return, char, int, void

Flowchart:



PROGRAM:

```
1  #include <stdio.h>
2  #include <string.h>
3
4  struct Movie {
5      int movie_id;
6      char name[50];
7      int price;
8  };
9
10 struct Booking {
11     char customer_name[50];
12     char movie_name[50];
13     int tickets;
14     int total_cost;
15     float discount;
16     float final_amount;
17 };
18
19 int main() {
20     struct Movie movies[3] = {
21         {1, "Animal", 250},
22         {2, "Bajrangi Bhaijaan", 200},
23         {3, "Stranger's Things", 300}
24     };
25
26     struct Booking booking;
27
28     int choice, id, i;
29
30     while (1) {
31         printf("\n..... MOVIE TICKET MANAGEMENT SYSTEM ..... \n");
```

```
19 int main() {
30     while (1) {
31         printf("\n..... MOVIE TICKET MANAGEMENT SYSTEM ..... \n");
32         printf("1. Show Movies\n");
33         printf("2. Book Ticket\n");
34         printf("3. Show Booking Receipt\n");
35         printf("4. Exit\n");
36         printf("Enter your choice: ");
37         scanf("%d", &choice);
38
39         switch (choice) {
40
41             case 1:
42                 printf("\n                Available Movies                \n");
43                 for (i = 0; i < 3; i++) {
44                     printf("%d. %s (Price: Rs %d per ticket)\n",
45                         movies[i].movie_id, movies[i].name, movies[i].price);
46                 }
47                 break;
48
49             case 2:
50                 printf("\nEnter your name: ");
51                 scanf("%s", booking.customer_name);
52
53                 printf("\nEnter Movie ID to Book: ");
54                 scanf("%d", &id);
55
56                 int found = 0;
57                 for (i = 0; i < 3; i++) {
58                     if (movies[i].movie_id == id) {
59                         found = 1;
60                         break;
61                     }
62                 }
63                 if (found == 0) {
64                     printf("Movie ID not found\n");
65                     continue;
66                 }
67                 printf("Movie Name: %s\n", movies[i].name);
68                 printf("Movie Price: %d\n", movies[i].price);
69                 printf("Enter number of tickets to book: ");
70                 scanf("%d", &tickets);
71                 booking.total_cost = tickets * movies[i].price;
72                 printf("Total Cost: %d\n", booking.total_cost);
73                 printf("Enter discount percentage: ");
74                 scanf("%f", &discount);
75                 booking.final_amount = booking.total_cost * (1 - discount/100);
76                 printf("Final Amount: %f\n", booking.final_amount);
77                 printf("Booking successful\n");
78                 printf("Press 1 to show movies, 2 to book ticket, 3 to show receipt, 4 to exit\n");
79                 printf("Press any key to continue\n");
80                 getch();
81             }
82         }
83     }
84 }
```

```

19 int main() {
30     while (1) {
49         case 2:
57             for (i = 0; i < 3; i++) {
58                 if (movies[i].movie_id == id) {
60                     strcpy(booking.movie_name, movies[i].name);
61
62                     printf("Enter number of tickets: ");
63                     scanf("%d", &booking.tickets);
64
65                     booking.total_cost = booking.tickets * movies[i].price;
66
67                     if (booking.tickets >= 3 && booking.tickets <= 5) {
68                         booking.discount = booking.total_cost * 0.10;
69                     } else if (booking.tickets > 5) {
70                         booking.discount = booking.total_cost * 0.20;
71                     } else {
72                         booking.discount = 0;
73                     }
74
75                     booking.final_amount = booking.total_cost - booking.discount;
76
77                     printf("\nTickets booked successfully!\n");
78                     break;
79                 }
80             }
81
82             if (!found) {
83                 printf("Invalid Movie ID!\n");
84             }
85

```

```

19 int main() {
30     while (1) {
49         case 2:
57
58         case 3:
89             printf("\n..... BOOKING RECEIPT ..... \n");
90             printf("----- \n");
91             printf("                CINEMA WORLD MULTIPLEX \n");
92             printf("----- \n");
93             printf("Customer Name   : %s \n", booking.customer_name);
94             printf("Movie Booked    : %s \n", booking.movie_name);
95             printf("Tickets         : %d \n", booking.tickets);
96             printf("Cost per Ticket : Rs %d \n",
97                 (strcmp(booking.movie_name, "Avengers: Endgame") == 0) ? 250 :
98                 (strcmp(booking.movie_name, "KGF Chapter 2") == 0) ? 200 : 300);
99
100             printf("----- \n");
101             printf("Total Cost      : Rs %d \n", booking.total_cost);
102
103             if (booking.discount > 0)
104                 printf("Discount Applied: Rs %.2f \n", booking.discount);
105             else
106                 printf("Discount Applied: Rs 0.00 \n");
107
108             printf("----- \n");
109             printf("FINAL AMOUNT    : Rs %.2f \n", booking.final_amount);
110             printf("----- \n");
111             printf("                THANK YOU! ENJOY YOUR SHOW \n");
112             printf("..... \n");
113             break;
114

```



```
107
108     printf("-----\n");
109     printf("FINAL AMOUNT      : Rs %.2f\n", booking.final_
110     printf("-----\n");
111     printf("                THANK YOU! ENJOY YOUR SHOW \n"
112     printf(".....\n");
113     break;
114
115     case 4:
116         printf("\nThank you \n");
117         return 0;
118
119     default:
120         printf("\nInvalid Choice Try again.\n");
121     }
122 }
123
124 return 0;
125 }
```

OUTPUT:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\admin> cd "C:\Users\admin\AppData\Local\Temp\" ; if ($?) { gcc tempC
deRunnerFile }
```

```
..... MOVIE TICKET MANAGEMENT SYSTEM .....
```

1. Show Movies
2. Book Ticket
3. Show Booking Receipt
4. Exit

Enter your choice: 1

Available Movies

1. Animal (Price: Rs 250 per ticket)
2. Bajrangi Bhaijaan (Price: Rs 200 per ticket)
3. Stranger's Things (Price: Rs 300 per ticket)

```
..... MOVIE TICKET MANAGEMENT SYSTEM .....
```

1. Show Movies
2. Book Ticket
3. Show Booking Receipt
4. Exit

Enter your choice: 2

Enter your name: Abhijeet Panwar

Enter Movie ID to Book: 2

Enter number of tickets: 4

Tickets booked successfully!

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
..... MOVIE TICKET MANAGEMENT SYSTEM .....
```

1. Show Movies
2. Book Ticket
3. Show Booking Receipt
4. Exit

Enter your choice: 3

```
..... BOOKING RECEIPT .....
```

CINEMA WORLD MULTIPLEX

```
-----
Customer Name   : Abhijeet Panwar
Movie Booked    : Bajrangi Bhaijaan
Tickets         : 4
Cost per Ticket : Rs 300
-----
```

```
Total Cost      : Rs 800
Discount Applied: Rs 80.00
-----
```

```
FINAL AMOUNT    : Rs 720.00
-----
```

THANK YOU! ENJOY YOUR SHOW

```
..... MOVIE TICKET MANAGEMENT SYSTEM .....
```

1. Show Movies
2. Book Ticket
3. Show Booking Receipt
4. Exit

Enter your choice: 4

Thank you

Conclusion

- This project demonstrates a basic implementation of a Movie Ticket Management System. It shows the use of file handling, structures, user-defined functions, and menu-driven programming.