

**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).

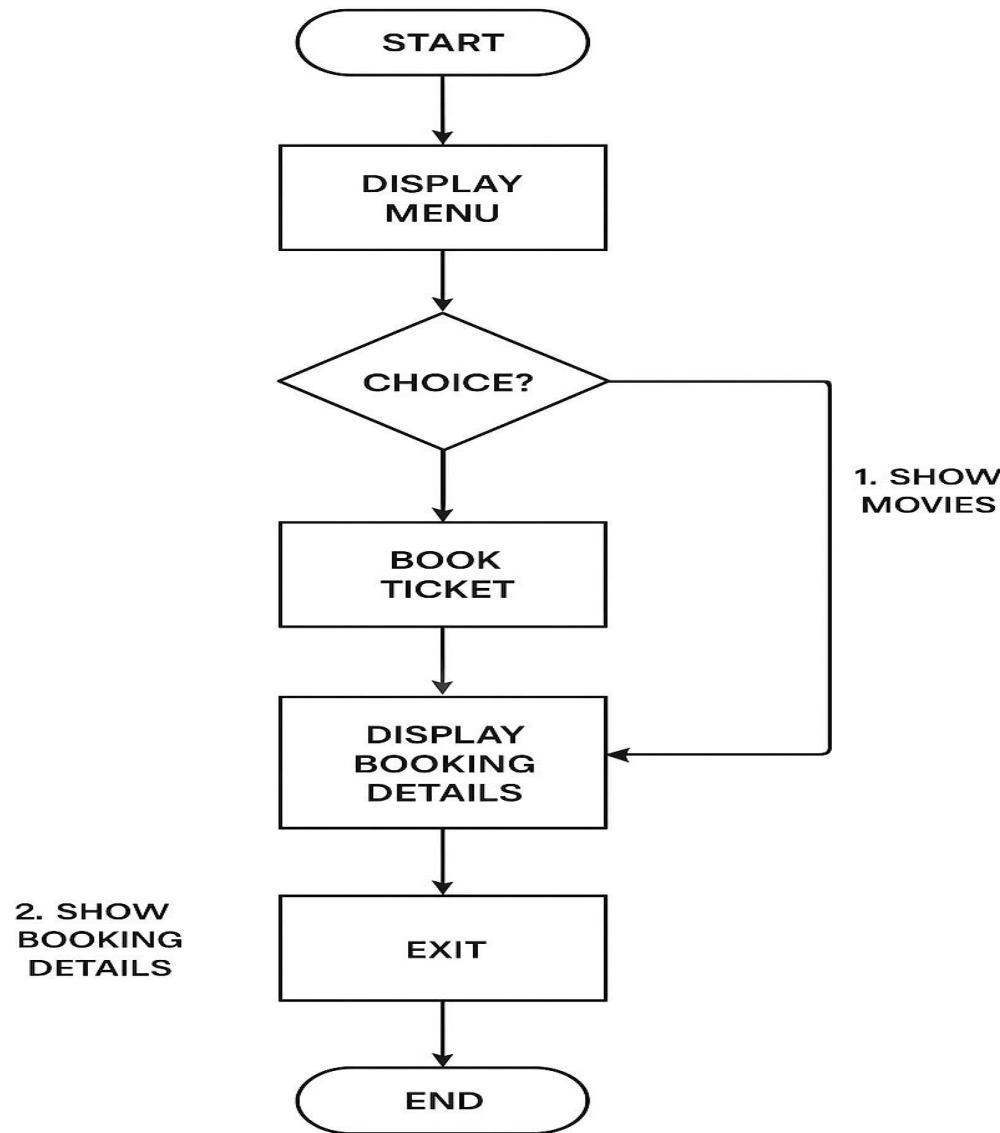
# Syntax Concepts Used

- - 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("\nMOVIE 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("\nAvailable 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(" %[^\n]", 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) {
```

```
19     int main() {
20         while (1) {
21             printf("\n..... MOVIE TICKET MANAGEMENT SYSTEM .....\n");
22             printf("1. Show Movies\n");
23             printf("2. Book Ticket\n");
24             printf("3. Show Booking Receipt\n");
25             printf("4. Exit\n");
26             printf("Enter your choice: ");
27             scanf("%d", &choice);
28
29             switch (choice) {
30
31                 case 1:
32                     printf("\nAvailable Movies\n");
33                     for (i = 0; i < 3; i++) {
34                         printf("%d. %s (Price: Rs %d per ticket)\n",
35                               movies[i].movie_id, movies[i].name, movies[i].price);
36                     }
37                     break;
38
39                 case 2:
40                     printf("\nEnter your name: ");
41                     scanf(" %[^\n]", booking.customer_name);
42
43                     printf("\nEnter Movie ID to Book: ");
44                     scanf("%d", &id);
45
46                     int found = 0;
47                     for (i = 0; i < 3; i++) {
48                         if (movies[i].movie_id == id) {
```

```
19 int main() {
20     while (1) {
21         case 2:
22             for (i = 0; i < 3; i++) {
23                 if (movies[i].movie_id == id) {
24                     strcpy(booking.movie_name, movies[i].name);
25
26                     printf("Enter number of tickets: ");
27                     scanf("%d", &booking.tickets);
28
29                     booking.total_cost = booking.tickets * movies[i].price;
30
31
32                     if (booking.tickets >= 3 && booking.tickets <= 5) {
33                         booking.discount = booking.total_cost * 0.10;
34                     } else if (booking.tickets > 5) {
35                         booking.discount = booking.total_cost * 0.20;
36                     } else {
37                         booking.discount = 0;
38                     }
39
40                     booking.final_amount = booking.total_cost - booking.discount;
41
42                     printf("\nTickets booked successfully!\n");
43                     break;
44                 }
45             }
46             if (!found) {
47                 printf("Invalid Movie ID!\n");
48             }
49         }
50     }
51 }
```

```
19     int main() {
20         while (1) {
21             case 2:
22             case 3:
23                 printf("\n..... BOOKING RECEIPT .....\\n");
24                 printf("-----\\n");
25                 printf("          CINEMA WORLD MULTIPLEX\\n");
26                 printf("-----\\n");
27                 printf("Customer Name : %s\\n", booking.customer_name);
28                 printf("Movie Booked   : %s\\n", booking.movie_name);
29                 printf("Tickets        : %d\\n", booking.tickets);
30                 printf("Cost per Ticket : Rs %d\\n",
31                         (strcmp(booking.movie_name, "Avengers: Endgame") == 0) ? 250 :
32                         (strcmp(booking.movie_name, "KGF Chapter 2") == 0) ? 200 : 300);
33
34                 printf("-----\\n");
35                 printf("Total Cost      : Rs %d\\n", booking.total_cost);
36
37                 if (booking.discount > 0)
38                     printf("Discount Applied: Rs %.2f\\n", booking.discount);
39                 else
40                     printf("Discount Applied: Rs 0.00\\n");
41
42                 printf("-----\\n");
43                 printf("FINAL AMOUNT    : Rs %.2f\\n", booking.final_amount);
44                 printf("-----\\n");
45                 printf("          THANK YOU! ENJOY YOUR SHOW \\n");
46                 printf(".....\\n");
47             break;
48         }
49     }
50 }
```

```
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 tempo  
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.