

Movie Ticket Booking System C Project

Movie Ticket Booking System is a simple console application written in the C language that can be used in movie theaters by the customers as well as the administration of the movie theater. It is designed to show to practical applications of the C language and how it can be used in different industries to automate businesses.

You can use this application to change the price of movies, although this feature is only available to the administration as it requires a password to be accessed. On the customer side, this application can allow you to buy tickets and book your desired seat in the movie theatre as well as allow you to cancel your booking in case you want to.

The Movie Ticket Booking System is a very user-friendly application, and all the instructions are clearly mentioned once you launch it. In order to use the application, click on the .exe file and you will be granted four options to:

- 1.) Change ticket price (Admin only)
- 2.) Purchase ticket
- 3.) Cancel seat
- 4.) Exit system

You can select the option you desire and follow along the next set of instructions as they are presented to you.

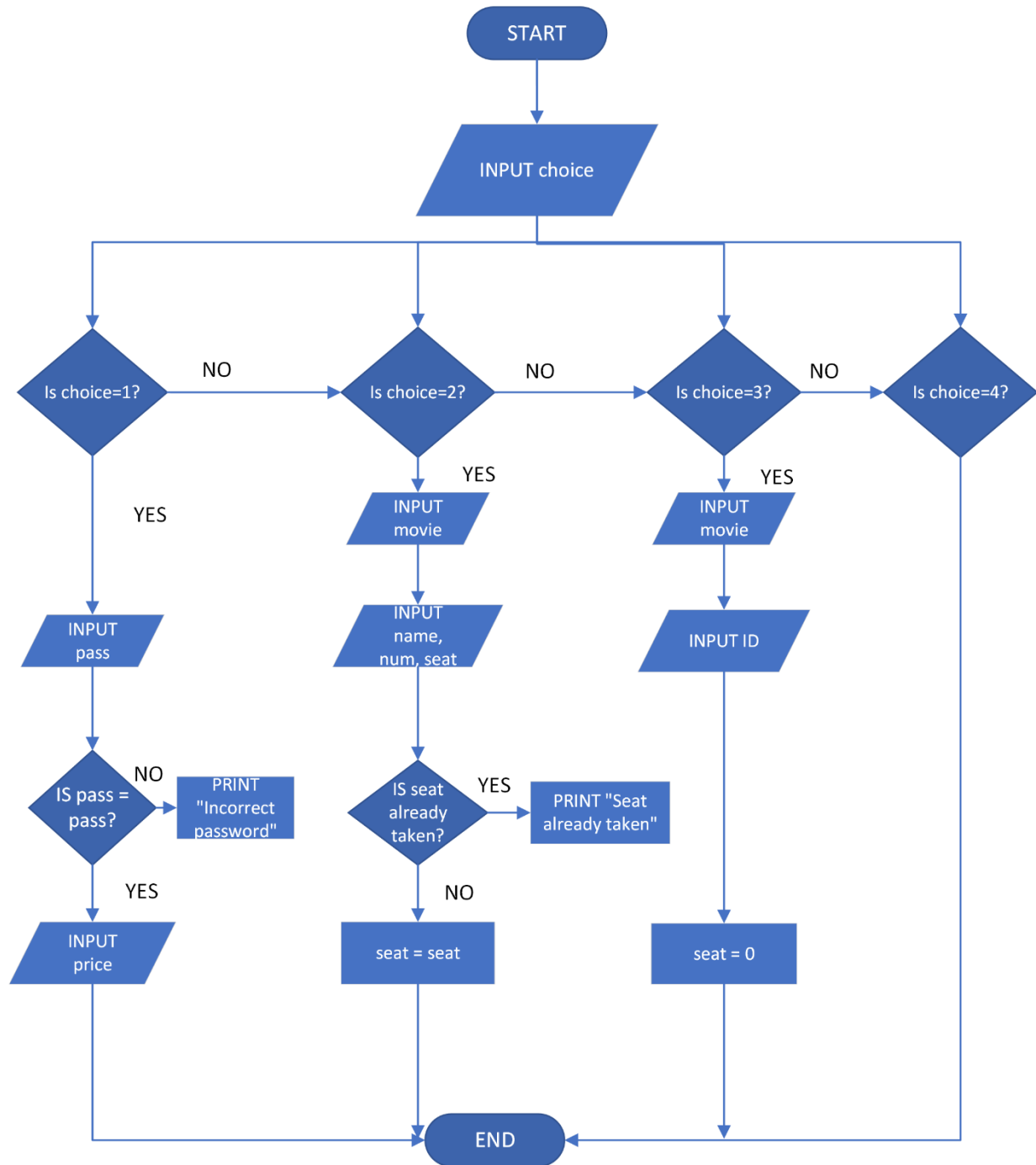
Features:

- 1.) It can adjust price of tickets for the movies, but this option is only available for the administration.
- 2.) Allow customers to book a seat for three different movies.
- 3.) Allow customers to cancel their booking.
- 4.) Show customers all available seats in a hall
- 5.) It has a validation check for the password entered for access to change the price.
- 6.) A validation check to see if the customer has entered a valid seat number that is available in the hall.
- 7.) A validation check to see if a customer has not selected a seat number that has already been taken by someone else
- 8.) Generate a customer's ticket which includes:
 - Their name
 - Their number
 - Their booking ID
 - Their hall no.
 - Their show date and time
 - Their ticket prices

Algorithm:

- 1.) START
- 2.) INPUT choice
- 3.) IF choice = 1
 - a. INPUT pass
 - b. IF pass = pass
 - i. INPUT price
 - c. Else PRINT "Incorrect Password"
- 4.) IF choice = 2
 - a. INPUT movie
 - b. INPUT name, num, seat
 - c. IF seat = 1
 - i. PRINT "Seat already taken"
 - d. Else seat = 1
- 5.) IF choice = 3
 - a. INPUT movie
 - b. INPUT ID
 - c. Seat = 0
- 6.) IF choice = 4
 - a. EXIT
- 7.) END

Flowchart:



Output:

- Main menu to select options

```
WELCOME TO M&M THEATER
=====
1- To change ticket price (Admin only):
2- To purchase ticket:
3- To cancel the seat:
4- Exit system:
=====
Enter your choice:
```

- Password validation

```
WELCOME TO M&M THEATER
=====
1- To change ticket price (Admin only):
2- To purchase ticket:
3- To cancel the seat:
4- Exit system:
=====
Enter your choice: 1
Enter the password to change price of ticket: ****
The entered password is wrong!
```

- Correct password entered and price of ticket changed

```
WELCOME TO M&M THEATER
=====
1- To change ticket price (Admin only):
2- To purchase ticket:
3- To cancel the seat:
4- Exit system:
=====
Enter your choice: 1
Enter the password to change price of ticket: ****
Please enter new price: 1200
Press any key to continue . . .
```

- Movie options

```
Which movie you want to see?
-----

Press 1 for Spider-Man: No Way Home

Press 2 for The Matrix: Resurrections

Press 3 for The King's Man
```

- Available seats shown and customer information entered

```

                                     SCREEN
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

Please enter your name: Muneef
Please enter your phone number: 1234
Which seat number you want? 27
```

- Customer's ticket

```

-----THEATER BOOKING TICKET-----
=====
Booking ID : 1000                      Show Name : Spider-Man: No Way Home
Customer  : Muneef

                                   Date       : 04-03-2022
                                   Time        : 08:00pm
                                   Hall        : 02
                                   Seat No.   : 27
                                   Price      : 1200

=====

```

- Seat No. 27 shown as booked and validation for seat number entered by new customer

```

                                SCREEN
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     *     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

Please enter your name: Asad
Please enter your phone number: 2345
Which seat number you want? 27
Sorry, this ticket is already booked! Please choose another seat.

```

- Movie options to cancel booking and booking ID entered

```

Enter your choice: 3
                Which movie ticket you want to cancel
                -----
                Press 1 for Spider-Man: No Way Home

                Press 2 for The Matrix: Resurrections

                Press 3 for The King's Man
1
Please enter ID number of ticket: 1000

```

- Cancellation message shown

```

Muneef your seat 27 is canceled
                WELCOME TO M&M THEATER
                =====
                || 1- To change ticket price (Admin only): ||
                || 2- To purchase ticket: ||
                || 3- To cancel the seat: ||
                || 4- Exit system: ||
                || ===== ||
Enter your choice:

```

- Option 4 selected from main menu to exit application

```

                WELCOME TO M&M THEATER
                =====
                || 1- To change ticket price (Admin only): ||
                || 2- To purchase ticket: ||
                || 3- To cancel the seat: ||
                || 4- Exit system: ||
                || ===== ||
Enter your choice: 4

Process returned 0 (0x0)   execution time : 65.640 s
Press any key to continue.

```