



# K. K. WAGH POLYTECHNIC, NASHIK.

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## DEPARTMENT OF COMPUTER TECHNOLOGY

### Micro-Project Report

Institute Code: 0078

Academic Year: 2022-23

Course: Object Oriented Programming using C++

Semester: 3

Class: SYCM-I

Program: Computer Technology

Course Code: 22316 Scheme: I

Date of Report: 12/12/2022

### Title of Micro-Project: Movie Ticket Reservation System using C++

**1.0 Problem Definition:** Develop a C++ system program using the concept of object oriented programming for Movie Ticket Reservation System.

The modules of the Movie Ticket Booking System are as follows,

- Logged in through Admin account.
- Accept the personal information of user.
- Choose movie theatre, movie & movie timing from list.
- Choose the type of movie 3D or 2D.
- Select no. of seats to be book.
- Display which seats are already booked.
- Display price of each movie & make payment using different payment methods.
- Display the user's final bill.

### 2.0 Rationale:

This micro project is developed as a part of "Object Oriented Programming" course. It is expected to develop a small industry based or field based or market requirement-based application using 'C++' language. The main intention is learning the C++ programming by implementing the various concepts of C++ language such as arrays, input-output functions, various library functions, Member functions, classes and their objects used decision-making and etc. The implementation of this project also develops the soft skills among us such as working in a team, group discussion, decision making etc.

### 3.0 Aim /Benefits of Micro-Project:

The Aim/Objectives of the Micro-project is:

- To learn about various concepts of Object oriented programming like classes, objects, member functions, single inheritance, pointer to object, file handling.
- To implement various concept of OOP using C++.
- Developing the logic for implementation of movie ticket reservation system using C++.

### 4.0 Course Outcomes Achieved (COs):

CO301.1: Develop C++ programs to solve problem using Procedure Oriented Approach.

CO301.2: Develop C++ program using classes and objects.

CO301.3: Implement Inheritance in C++ program.

CO301.4: Use Polymorphisms in C++ program.

CO301.5: Develop C++ programs to perform file operations.

### 5.0 Literature Review:

For the movie ticket reservation systems, for booking ticket you need to go to theatre for the above process as they work. As the world is going digital day by day as technology is improving. For that we also need a system that can digitally help us for booking the ticket. So, we make a movie ticket reservation system using the C++ language that can make easy for users. This system works as user has to enter his/her personal details, select movie and timing from list which user wants to see, select the type of movie (2D/3D), select the number of seats user wants to book and display seats which are available and already booked, choose the payment method for booking tickets. At last final bill of user is displayed with all details.

## 6.0 Actual Methodology followed:

1. Develop C++ program to implement Movie Ticket Reservation System with various concept.
2. Study and analyse of Movie Ticket Reservation System program.
3. Referred various books related to basics of C++.
3. Develop C++ program modules like:-
  - Logged in through Admin account.
  - Accept the personal information of user.
  - Choose movie theatre, movie & movie timing from list.
  - Choose the type of movie 3D or 2D.
  - Select no. of seats to be book.
  - Display which seats are already booked.
  - Display price of each movie & make payment using different payment methods.
  - Display the user's final bill.

So this system will be useful for booking movie tickets.

4. Testing all the modules and making corrections as per guidelines suggested by Guide.
5. Finalised all modules of Movie Ticket Reservation system.
6. Generated Final Output.

## 7.0 Actual Resources used:

S. No.	Name of Resource/material	Specifications	Qty	Remarks
1	Laptop	HP Elitebook 830 g3-Intel(R) Core(TM) i5, 8 GB installed RAM, SSD-256 GB	01	For project work
2	Operating System	Windows 11 Pro x64 bit	01	For running compiler
3	compiler	Dev C++ 5.11	01	For developing project in C++
4	Other software	Microsoft Office Word	01	For documentation
6	Reference book:	Programming in C++ with E. Balagurusamy	01	For studying C++ concepts
7	Websites	www.tutorialspoint.com www.studytonight.com www.cprogramming.com	03	For referring sample C++ programs & concept

## 8.0 Outputs of the Micro-Project:

##-----WELCOME-----##

Admin Login:

Enter username:-Bookmyshow

Enter password:-\*\*\*\*\*

Login access successful....!

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### Menu

1. Book a Ticket:

2. Customers Record/Booked Tickets:

3. Exit

\*\*\*\*\*

### Enter ur Choice:2

Details of Tickets of Users:

Name	Date of Birth	Phone no.	Price	No.of Tickets	Booked seats
Kalash	23-MAY-2004	8459042711	923	3	[4 1],[8 3],[11 2],
Aditya	16-Nov-2005	9309298067	561	2	[1 2],[10 5],

\*\*\*\*\*

### Menu

#### 1. Book a Ticket:

2. Customers Record/Booked Tickets:

3. Exit

\*\*\*\*\*

### Enter ur Choice:1

Would you like to Book a ticket ?(YES/NO (for cancelation): Yes

##-----WELCOME to BOOK MY SHOW-----##

Ticket Counteration:

Enter your full Name:Nitin

Enter the date of birth (DD-MON-YYYY):-13 Sep 2003

Enter your Mob. No.:9080796054

##-----|Movie Theatre|-----##

1.Cinemax Cinemas(CCM)

2.MovieMax Cinemas

3.LUXE Cinemas

4.Nexus Vijaya Mall

**5.Sunset Drive-in Cinema**

Enter your choice: 5

##-----|Trending Movie List|-----##

Movie Name	Price		
	Classic	Prime	Prime +
1.Drishyam 2	175Rs.	250Rs.	350Rs.
<b>2.Avatar</b>	<b>144Rs.</b>	<b>275Rs.</b>	<b>417Rs.</b>
3.KGF 2	169Rs.	294Rs.	460Rs.
4.Black Panther	198Rs.	375Rs.	470Rs.
5.Charlie 777	275Rs.	433Rs.	540Rs.

Enter your choice: 2

Enter Movie Type:

**1.3D**

2.2D

Enter your choice: 1

##-----TIMING-----##

Movie Name	Time
1.Drishyam 2	9:00am-11:30am

2.Avatar	12:00pm-2:30pm
3.KGF 2	3:00pm-5:30pm
4.Black Panther	6:00pm-8:30pm
5.Charlie 777	9:00pm-11:30pm

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##-----Choose your seats-----##

Classic (144 Rs.)

[1 1][1 2][1 3]	[1 4][1 5][1 6]
[2 1][2 2][2 3]	[2 4][2 5][2 6]
[3 1][3 2][3 3]	[3 4][3 5][3 6]
[4 1][4 2][4 3]	[4 4][4 5][4 6]
[5 1][5 2][5 3]	[5 4][5 5][5 6]
[6 1][6 2][6 3]	[6 4][6 5][6 6]

Prime (275 Rs.)

[7 1][7 2][7 3]	[7 4][7 5][7 6]
[8 1][8 2][8 3]	[8 4][8 5][8 6]
[9 1][9 2][9 3]	[9 4][9 5][9 6]

Prime + (417 Rs.)

[10 1][10 2]	[10 3][10 4]	[10 5][10 6]
[11 1][11 2]	[11 3][11 4]	[11 5][11 6]

How many seats you want to book: 3

Enter seat number to reserve(Row-Column): 3 1

Enter seat number to reserve(Row-Column): 8 6

Enter seat number to reserve(Row-Column): 10 4

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##-----Generating Ticket Bill-----##

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Avatar

Movie Type = 3D

Movie Time = 12:00pm-2:30pm

Price of your 3 seats = 836Rs

Name : Nitin

Birthdate : 13 Sep 2003

Phone : 9080796054

Cost : 836

Number of tickets : 3

Would you like to pay bill ?(YES/NO (for cancelation): **yes**

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##-----Transaction Mode-----##

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1.PHONEPE TRANSACTION

2.GOOGLE PAY TRANSACTION

**3.DEBIT CARD TRANSACTION**

#### 4.CREDIT CARD TRANSACTION

Note:-For Payment, Use only this details...

phonepe\_id=9309298  
upi\_id=7875191  
google\_pay\_id=9309298  
google\_pay\_pass=7875191  
debit\_card\_number=9309298  
debit\_cvv\_number=101  
credit\_card\_number=7875191  
credit\_cvv\_number=201

**Enter your choice : 3**

Enter DEBIT CARD Number: 9309298

Enter CVV Number: 101

TRANSACTION SUCCESSFULL.....

Amount has been deducted from ur Account.....

Please go into Theatre and Enjoy ur Movie.....

----\*\*\*Reserved Seats\*\*\*----

Classic (144 Rs.)

[1 1][1 2][1 3]	[1 4][1 5][1 6]
[2 1][2 2][2 3]	[2 4][2 5][2 6]
<b>[X X][3 2][3 3]</b>	[3 4][3 5][3 6]
[4 1][4 2][4 3]	[4 4][4 5][4 6]
[5 1][5 2][5 3]	[5 4][5 5][5 6]
[6 1][6 2][6 3]	[6 4][6 5][6 6]

Prime (275 Rs.)

[7 1][7 2][7 3]	[7 4][7 5][7 6]
[8 1][8 2][8 3]	[8 4][8 5] <b>[X X]</b>
[9 1][9 2][9 3]	[9 4][9 5][9 6]

Prime + (417 Rs.)

[10 1][10 2]	[10 3] <b>[X X]</b>	[10 5][10 6]
[11 1][11 2]	[11 3][11 4]	[11 5][11 6]

##-----|Final Bill Copy|-----##

Name:-Nitin		Date of Birth:-13-Sep-2003		Mob. No.:9080796054	
Movie	Movie Type	Timing	Amount	Seats	
Avatar	Hindi 3D	12:00pm-2:30pm	836Rs	[3 1] [8 6] [10 4]	

##-----|HAVE A NICE DAY|-----##

\*\*\*\*\*

### Menu

1. Book a Ticket:
2. Customers Record/Booked Tickets:
3. Exit

\*\*\*\*\*

### Enter ur Choice:2

Details of Tickets of Users:

Name	Date of Birth	Phone no.	Price	No.of Tickets	Booked seats
Kalash	23-MAY-2004	8459042711	923	3	[4 1],[8 3],[11 2],
Aditya	16-Nov-2005	9309298067	561	2	[1 2],[10 5],
Nitin	13-Sep-2003	9080796054	836	3	[3 1],[8 6],[10 4],

\*\*\*\*\*

### Menu

1. Book a Ticket:
2. Customers Record/Booked Tickets:
3. Exit

\*\*\*\*\*

### Enter ur Choice:1

Would you like to Book a ticket?(YES/NO (for cancelation): **no**

Thank you for visiting us.....

Your Ticket has been cancelled successfully.....

**Press any key to exit.....**

## 9.0Skill Developed / Learning outcome of this Micro-Project:

### Technical Skills:

1. Understand and execute the ObjectOriented Programming concepts.
2. Learn how to create the program for Movie Ticket Reservation System.
3. Writing a C++ program, compiling it & debugging it using C++ compiler (Dev C++).
4. Implementing various concepts of C++ language such as classes, objects,member functions, single inheritance, pointer to object,file handling.

### Soft Skills:

1. Leadership and decision making.
2. Working in team.
3. Time management.
4. Presentation and writing skills.

## 10.0 Applications of Micro Project:

1. Online Softwares
- 2.Multitheater
- 3.Drama theater
- 4.Cinema theatre

**11.0 Name of Group Members:**

<b>Enrolment No.</b>	<b>Roll No.</b>	<b>Seat No.</b>	<b>Name of Students</b>	<b>Student Signature</b>
2100780076	05	323218	Bagale Yash Chirag	
2100780077	06	323219	Baldota Kalash Sachin	
2100780086	15	323228	Dhakane Aditya Arun	

Date:12/12/2022

Evaluated by: Dated Signature of Guide: \_\_\_\_\_

Name of Guide: Mr. H. M. Gaikwad