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|  | **K. K. Wagh Polytechnic, Nashik.**  HirabaiHaridasVidyanagari, Amrutdham, Panchavati,Nashik-422003  **Department of Computer Technology** |

**Micro-Project Report**

**G2**

Institute Code: 0078

Academic Year: 2022-23 Program: Computer Technology

Course: Object Oriented Programming using C++ Course Code: 22316 Scheme: I

Semester: 3 Class: SYCM-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 there 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 likeclasses, 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 improvising. 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 work as user have to enter his/her personal details, select movie and timing from list which user want to see, select the type of movie(2D/3D), select the number of seats user want 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:**

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Admin Login:

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Enter username:-Bookmyshow

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

Login access successful....!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Menu**

1. Book a Ticket:

**2. Customers Record/Booked Tickets:**

3. Exit

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Enter ur Choice:2**

Details of Tickets of Users:

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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],

===========================================================================

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**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.

**2.Avatar 144Rs. 275Rs. 417Rs.**

3.KGF 2 169Rs. 294Rs. 460Rs.

4.Black Panther 198Rs. 375Rs. 470Rs.

5.Charlie 777 275Rs. 433Rs. 540Rs.

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**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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

##---------------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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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]

**[X X]**[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]**[X X]**

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

Prime + (417 Rs.)

[10 1][10 2] [10 3]**[X X]** [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|---------------##

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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],

Nitin 13-Sep-2003 9080796054 836 3 [3 1],[8 6],[10 4],

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**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.....**

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**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:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Enrolment No.** | **Roll No.** | **Seat No.** | **Name of Students** | **Student Signature** |
| 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