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

**Proposal for Micro-Project** 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 Proposal: 17/09/2022

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

**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.

1. **Aim/Objectives/ Benefits of the 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++.

**2.0 Course Outcomes addressed (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.

1. **Proposed Methodology:**

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.

**4.0 Action Plan:**

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| **S. No.** | **Details of activity** | **Planned Start date** | **Planned Finish date** | **Name of Responsible**  **Team Members** |
|  | Searching & finalizing microproject topic. | 29/08/2022 | 10/09/2022 | All members |
|  | Preparing algorithm and flowchart. | 10/09/2022 | 17/09/2022 | All members |
|  | Preparing a micro project proposal | 17/09/2022 | 01/10/2022 | Aditya Dhakane |
|  | Coding in C++ to implement Movie Ticket Reservation System on following modules: 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. | 01/10/2022 | 31/10/2022 | All members |
|  | Testing of all modules that are mentioned above and doing corrections if any. | 31/10/2022 | 17/11/2022 | Aditya Dhakane |
|  | Preparing a final brief report using MS word. | 17/11/2022 | 24/11/2022 | Yash Bagale ,Kalash Baldota |
| 7 | Presentation & Viva of micro project | 01/12/2022 | 10/12/2022 | All members |

**5.0 Resources Required:**

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| **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 |

**Name of Team Members:**

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| --- | --- | --- | --- |
| Enrolment No. | Roll No. | Name of Students | Signature |
| 2100780076 | 05 | Bagale Yash Chirag |  |
| 2100780077 | 06 | Baldota Kalash Sachin |  |
| 2100780086 | 15 | Dhakane Aditya Arun |  |

Date: 17/09/2022 Evaluated by: Signature of Guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name of Guide: Mr. H. M. Gaikwad