K. K. Wagh Polytechnic, Nashik.
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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.

1.0 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.

3.0 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:

S. No.	Details of activity	Planned Start date	Planned Finish date	Name of Responsible Team Members
1	Searching & finalizing microproject topic.	29/08/2022	10/09/2022	All members
2	Preparing algorithm and flowchart.	10/09/2022	17/09/2022	All members
3	Preparing a micro project proposal	17/09/2022	01/10/2022	Aditya Dhakane
4	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
5	Testing of all modules that are mentioned above and doing corrections if any.	31/10/2022	17/11/2022	Aditya Dhakane
6	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:

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:

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