

# Cyber Cafe Management System in C++

*FINAL REPORT*

**OOPS MAJOR PROJECT**

November 2020

*by*

**DASARI JAYANTH(2019BCS-016)**

**THARI ZEPHANIAH(2019BCS-067)**

*under the supervision of*

**Dr. VINAL PATEL**



विश्वजीवनामृतं ज्ञानम्

**ABV-INDIAN INSTITUTE OF INFORMATION  
TECHNOLOGY AND MANAGEMENT  
GWALIOR-474 015**

## CANDIDATE'S DECLARATION

I hereby certify that I have properly checked and verified all the items as prescribed in the check-list and ensure that my thesis/report is in proper format as specified in the guideline for thesis preparation.

I also declare that the work containing in this report is our own work. I, understand that plagiarism is defined as any one or combination of the following:

1. To steal and pass off (the ideas or words of another) as one's own
2. To use (another's production) without crediting the source
3. To commit literary theft
4. To present as new and original an idea or product derived from an existing source.

I understand that plagiarism involves an intentional act by the plagiarist of using someone else's work/ideas completely/partially and claiming authorship/originality of the work/ideas. Verbatim copy as well as close resemblance to some else's work constitute plagiarism.

I affirm that no portion of my work is plagiarized, and the experiments and results reported in the report/dissertation/thesis are not manipulated. In the event of a complaint of plagiarism and the manipulation of the experiments and results, I shall be fully responsible and answerable. My faculty supervisor(s) will not be responsible for the same.

Name: DASARI JAYANTH  
Roll No.: 2019BCS-016  
Date: 13/11/2020

Name: THARI ZEPHANIAH  
Roll No.: 2019BCS-067  
Date: 13/11/2020

## ABSTRACT

This project is based on the working of Cyber Cafe Management activity which is involved in allotting various types of Management like keep the record of registered User and non registered user, updating the records. And deleting the records and also to generate their reports. The cyber cafe current maintains the records manually. All the working hours, user name and its addresses have to be maintained daily in the record book for further reference.

This project has been undertaken to automate the Cyber Cafe Management. One entry should be made once and further the entries are fetched as required. This makes the system more efficient. The user can only login the system if they are authorized to do so.

Cyber Cafe Management System” has been designed to exhibit the significant of an automated system, which is used to manage and store information about Cyber Cafe Management, using the facilities of C++. The project begins with the separate different topics as menu bar items. Each heading possesses a number of models as its menu items. The project provides a user-friendly environment revealing the functioning of each part of Cafe Management automating them, which the users are facing at different levels of management in any Cyber Cafe. In this project sincere efforts have been made to develop a simple and easy Computer Based Cyber Cafe Management.

The user is provided with remarkable facilities of adding, printing, saving, deleting, modifying, closing as well as editing the data that has been entered currently or in the past.

# Contents

1	Introduction	4
2	Salient Features	5
3	Basic Implementation	6
4	Code Implementation	7
5	Cyber Cafe Management	8
6	Screen Shots-1	9
7	Screen Shots-2	10
8	Screen Shots-3	11
9	Conclusion	12
10	References	12

# 1 Introduction

- The basic task of our software is to provide operators and customers with an accurate timing and billing information at any time. Cyber cafe management system keeps customer accounts, so that customers can log in on their own using username and password
- The cyber cafe currently maintains the records manually. All the working hours, user names, and retain addresses daily in the record book for further reference. Due to the manual method, the processing is not up to the mark and prone to inefficiencies. Report generation is a very tedious and prone error procedure.
- We created an OOP(Object Oriented Programming) based cyber cafe management System, which will automate the whole Cyber Cafe Management.
- Cyber Cafe Management System is a significant place for keeping member records as per I.T., And C++ with application development tools has made it relatively easier for computer professionals to build several projects.
- Our software's primary task is to provide operators and customers with accurate timing and billing information at any time. Cybercafe management system keeps customer accounts so that customers can log in on their account using username and password.This will also help reduce most time spending on their written records to know the total customers visited any day and calculate profit.
- One entry should be made once and further the entries are fetched as required. This makes the system more efficient. The user can only login the system if they are authorized to do so.
- The users of this system are required to feed up their own data giving up appropriate constraints to be able to manipulate the functioning of various highlights of the system.

## 2 Salient Features

- Cyber Cafe Management System is dos Based Graphical software.
- Being of its ease of access and interface, this system can be used by any specialized or non-specialized users.
- Addition, deletion, modification of member records, machine records and surfing records are easily maintained.
- Reduce time, money and efforts of doing the work.
- Provide better service and accurate information to the factory.
- Provide fast retrieval of information.
- Restricts unauthorized persons from using important data.
- Different pricing strategies for specialized and non-specialized Users based on the Level of Membership they avail.
- Deleting all the Customers History and Data after he/she completes his Session.
- Special Privileges include Reduced Charges on System Usage to Premium Users who had taken a Membership in Cafe.

### 3 Basic Implementation

The Initial Startup Screen will ask for the Admin-User Credentials which will then redirect to the Main Menu because the Cafe Sessions are only allotted by the Admin. The Main Screen contains 3 Options

1. Master Entry
2. Cafe Management
3. Exit

1. **Master Entry** : This Contains all the Necessary Information of the Premium Members of the Cafe and all the Computer Details. Also the functions which are used to

- Add New Members
- Update Info
- Delete Info
- Membership Plan
- etc

2. **Cafe Management** : This Contains the Whole Cafe Details like the Non-premium/Premium Member Login/Logout Details and the Premium/Non-Premium Usage Charges.

- Booking(Login/Logout)
- Charges

## 4 Code Implementation

To implement this Design we require 3 Classes with various Member Functions Classes include :

- Member Entry
- Computer Entry
- Cyber Cafe

1. **Member Entry** :This Class include Various Member Functions and Data Members which involve creating Premium User Objects of Cyber Cafe using the concept of Inheritance.

The Member Entry Consists of Various options:

- Add New Member
- Display Members
- Update Record
- Delete Record
- Search Record

2. **Computer Entry** :This Class include Functions which deal with the performance of the Computers .

The Computer Entry consists of Various options:

- Add New Computer
- Display Computers
- Update Record
- Delete Record
- Search Record

3. **Cyber Cafe** :This class deals with the Basic Tasks in the Software like to book a session,show fares,etc. The Functions coming under this class are:

- Show Charges
- Book Session
- Close Sesssion
- Renewal Account



## 5 Cyber Cafe Management

Management of Cyber Cafe Includes Booking the Sessions , Updating the Charges of the Sessions, Renewal of the Premium Accounts, and many more.

1. **Booking** : Maintains the data about the member when he log in computers and what time spent on the particular machine

It covers the Following :

- Login
- Logout

2. **Charges** :Contains the Information regarding the Charges applied to different membership schemes.

- Show Charges

3. **Renewal/Subscription** : maintains the renewal process of the registered members.Old member can take new membership after paying the membership fees or taking Subscription.Fresh members can also take subscription.

## 6 Screen Shots-1

```
C:\Users\dasar\Documents\OOPS Project\exe
Enter the password: 2325
Welcome to cyber cafe management
1) Master Entry
2) Cafe Management
3) Exit
Please select any one of above options:1
1)Member entry option.
2)Computer entry option.
3)Return.
1
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:1
Enter Name: dj
Enter Email_id: dasarij@gmail.com
Enter Phone Number: 9876544567
current plan: P
Create password :dj@1
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:1
Enter Name: z
Enter Email_id: z23432@gmail.com
Enter Phone Number: 8765567844
current plan: SP
Create password :z@1
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:2
Name      Email id      Phone number      Current plan
Admin     cybercafe@gmail.com  9999999999      Daily
Guest     cybercafe@gmail.com  9999999999      Daily
dj        dasarij@gmail.com    9876544567      P
z         z23432@gmail.com     8765567844      SP
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.

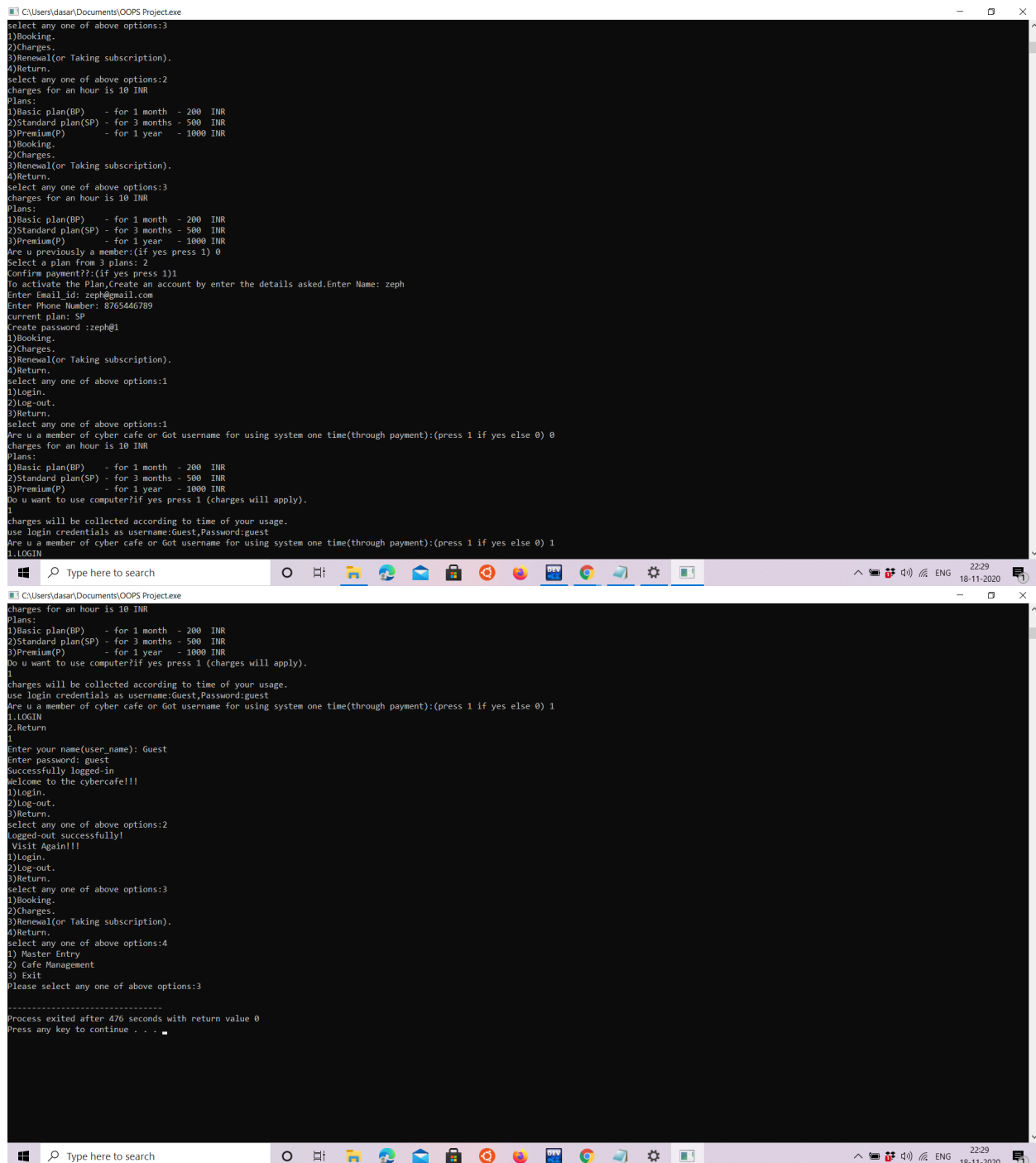
C:\Users\dasar\Documents\OOPS Project\exe
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:3
Enter the Name of Member:z
Member name found.
Enter the password: z@1
Choose the option you want to update:
1.Name
2.Email Id
3.Phone Number
4.Current Plan
5.Change Password
2
Enter Email_id:zp2341@gmail.com
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:2
Name      Email id      Phone number      Current plan
Admin     cybercafe@gmail.com  9999999999      Daily
Guest     cybercafe@gmail.com  9999999999      Daily
dj        dasarij@gmail.com    9876544567      P
z         zp2341@gmail.com     8765567844      SP
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:5
Enter the name of member:dj
Member name found.
Name:dj
Email_id: dasarij@gmail.com
Phone Number: 9876544567
current plan: P
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:4
```

## 7 Screen Shots-2

```
C:\Users\dasar\Documents\OOPS Project.exe
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:4
Enter the Name of Member:z
Member name found.
Enter the password: z81
Member successfully deleted.
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:2
Name      Email_id      Phone number      Current plan
Admin     cybercafe@gmail.com  9999999999      Daily
Guest     cybercafe@gmail.com  9999999999      Daily
djs       dasar1j@gmail.com    9876544567      P
1)Add new member.
2)Show member.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:6
1)Member entry option.
2)Computer entry option.
3)Return.
2
Enter the Admin password to access computer details.
cc@1
1)Add new computer.
2)Show computer.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:1
Enter computer name: Dell
Enter model: jhsfg
Enter processor type: i5
Ram: 512
Price of computer: 50000
Purchase date of computer: 23/07/2020
1)Add new computer.
2)Show computer.

C:\Users\dasar\Documents\OOPS Project.exe
1)Add new computer.
2)Show computer.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:2
Computer Name      Model      Processor      Ram      Price      Purchase date
Dell             jhsfg      i5             512      50000      23/07/2020
1)Add new computer.
2)Show computer.
3)Update record.
4)Delete record.
5)Search record.
6)Return.
select any one of above options:6
1)Member entry option.
2)Computer entry option.
3)Return.
3
1) Master Entry
2) Cafe Management
3) Exit
Please select any one of above options:2
1)Booking.
2)Charges.
3)Renewal(or Taking subscription).
4)Return.
select any one of above options:1
1)Login.
2)Log-out.
3)Return.
select any one of above options:1
Are u a member of cyber cafe or Got username for using system one time(through payment):(press 1 if yes else 0) 1
1.LOGIN
2.Return
1
Enter your name(user_name): djs
Enter password: djs1
Successfully logged-in
Welcome to the cybercafe!!!
1)Login.
2)Log-out.
3)Return.
select any one of above options:2
Logged-out successfully!
Visit Again!!!
1)Login.
2)Log-out.
3)Return.
```

## 8 Screen Shots-3



```
C:\Users\dasar\Documents\OOPS Project>select any one of above options:3
1)Booking.
2)Charges.
3)Renewal(or Taking subscription).
4)Return.
select any one of above options:2
charges for an hour is 10 INR
Plans:
1)Basic plan(BP) - for 1 month - 200 INR
2)Standard plan(SP) - for 3 months - 500 INR
3)Premium(P) - for 1 year - 1000 INR
1)Booking.
2)Charges.
3)Renewal(or Taking subscription).
4)Return.
select any one of above options:3
charges for an hour is 10 INR
Plans:
1)Basic plan(BP) - for 1 month - 200 INR
2)Standard plan(SP) - for 3 months - 500 INR
3)Premium(P) - for 1 year - 1000 INR
Are u previously a member:(if yes press 1) 0
Select a plan from 3 plans: 2
Confirm payment?:(if yes press 1)1
To activate the Plan,Create an account by enter the details asked.Enter Name: zeph
Enter Email Id: zeph@gmail.com
Enter Phone Number: 8765446789
current plan: SP
Create password :zeph@1
1)Booking.
2)Charges.
3)Renewal(or Taking subscription).
4)Return.
select any one of above options:1
1)Login.
2)Log-out.
3)Return.
select any one of above options:1
Are u a member of cyber cafe or Got username for using system one time(through payment):(press 1 if yes else 0) 0
charges for an hour is 10 INR
Plans:
1)Basic plan(BP) - for 1 month - 200 INR
2)Standard plan(SP) - for 3 months - 500 INR
3)Premium(P) - for 1 year - 1000 INR
Do u want to use computer?if yes press 1 (charges will apply).
1
charges will be collected according to time of your usage.
use login credentials as username:Guest,Password:guest
Are u a member of cyber cafe or Got username for using system one time(through payment):(press 1 if yes else 0) 1
1.LOGIN
2.Return
1
Enter your name(user_name): Guest
Enter password: guest
Successfully logged-in
Welcome to the cybercafe!!!
1)Login.
2)Log-out.
3)Return.
select any one of above options:2
Logged-out successfully!
Visit Again!!!
1)Login.
2)Log-out.
3)Return.
select any one of above options:3
1)Booking.
2)Charges.
3)Renewal(or Taking subscription).
4)Return.
select any one of above options:4
1) Master Entry
2) Cafe Management
3) Exit
Please select any one of above options:3
-----
Process exited after 476 seconds with return value 0
Press any key to continue . . .
```

## 9 Conclusion

We conclude this report by saying that we i.e Dasari Jayanth (2019BCS-016) and Thari Zephaniah(2019BCS-067) had successfully completed our Major Project on Cyber-Cafe Management System implemented in C++.

We learned the concepts of Object Oriented Programming and also learnt the Significance of OOPS in Modern Life.

## 10 References

<https://www.geeksforgeeks.org/object-oriented-programming-in-cpp/>

[https://www.tutorialspoint.com/cplusplus/cpp\\_object\\_oriented.htm](https://www.tutorialspoint.com/cplusplus/cpp_object_oriented.htm)

<https://beginnersbook.com/2017/08/cpp-oops-concepts/>

[https://www.w3schools.com/cpp/cpp\\_oop.asp](https://www.w3schools.com/cpp/cpp_oop.asp)