

“LEARNING MANAGEMENT SYSTEM”



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A Project Report On

“ Learning Management System”

**Submitted in partial fulfilment for the award of the
degree of**

“T. Y. B.Sc. (Computer Science)”

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CERTIFICATE

This is to certify that project entitled “ **Learning Management System**” is submitted by –
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INTRODUCTION

In this project an attempt is made to design a computer system for the CYBER CAFÉ that makes the management of recording user details, internet usage and billing much easier. The objective of this software is to maintain the details of users, cabins and login history. Through this system we provide facility of prepaid and postpaid accounts respectively for Account Users and Walkthrough Users. It has the features like adding, viewing, editing of user details, cabin details, recharge option for prepaid users, billing, tariff settings, etc.

The Software powered by JAVA assures clear and efficient services to the agency. This easy-to-operate system helps to access and modify user details, provides efficient billing facility. The software is designed to provide Reliable and error free information. The database is driven by My SQL thus providing portability. Anyone having an account with the system can have access to internet by logging into the client machine using a given username and password. Account users can login only if they have sufficient balance in the account. Otherwise they will have to recharge their account using the recharging facility at the administrator side. To ensure enhanced security user account creation, editing, etc are available only at the administrator side.

On successful login the user can load browser and can have access to internet. The login time displayed on the login screen may help the users manage their usage. On logout the internet usage charges and available balance in the account (in case of account users) will be displayed.

2.SCOPE OF THE PROJECT

The system we propose has great scope in the current real time situation. The cyber crime monitoring system can be enhanced to an extent by implementing this system. Most of the firms and establishments are being computerized in order to ease the tasks to be performed. The internet cafés unfortunately are rarely computerized. We aim through this venture, a better reliable solution. In the primary stage of feasibility study itself we received an exquisite response and so we plan to go ahead with our project

OBJECTIVES

ACHIEVEMENTS EXPECTED THROUGH THE PROJECT

- Comparing to existing manual system, it performs at a faster pace.
- System gives better feed back.
- 'Timely and accurate information are available.
- The system provides greater processing speed consistency.
- Chances of errors are much low.
- Provides high security to the system and hence unauthorized user can be prevented
- Time taken for overall process is reduced.
- Forms are very user friendly.
- Ease of operation.

SYSTEM ANALYSIS

System analysis is for finding out what happens in existing system deciding on what changes and new features are required and defining exactly what the proposed system must be. The process of system analysis is largely concerned with determining, developing and agreeing to the user's requirements. It provides prime opportunity to communicate well with the user and conceive a joint understanding of what a system should be doing together with a view of relative importance of the system facilities using interactive techniques.

PROPOSED SYSTEM

The Cyber Café Management System which we design is in the same line of the existing system. No procedural changes are made to the existing system except the login process done by the customers.

The new system we develop has 2 modules. One module is to be installed in the server computer and the second module is to be installed in every client computers. In server module the staff should login with their username and password. The first entering window contains a flex grid which will display all

the cabins. If any customer logs in any client computer, the details of the user including name and address will be displayed in this grid.

If any of the client computers is not in working condition, there is facility to remove it from allocation process. After accomplishing the maintenance it can be added back to the cabin settings.

When a new customer comes for browsing, an account is created for him.

The account can be of two types. "Account user" and "Walkthrough user". An account user must pay a minimum amount of Rs.50 for the creation of account. While walkthrough users have to pay only after their usage. Account users can use the internet for lower tariffs which can be adjusted from the menu at their settings

The usage amount will be deducted from their account's balance. In case their credit amount is lower, the customer should recharge their account. Recharge option is available at recharge menu.

An account contains information about the user's name, address, identification etc. They should have a unique user-id and password. Using this user-id and password they can log in from the client computers. In case any user forgets his password, it can be recovered and edited from the edit option in menu named 'Account setting'.

Different reports are included regarding users, their login time, logout time, used machine etc. In case if any malpractices have occurred from the cafe, it can be identified by checking the user report. Daily report provides details regarding all the user details of a day. Reports of a specific user can be viewed using their user-id. Similarly machine wise reports are also there, which helps to find all the users who have used a specific computer.

Since information regarding the users is needed for further checking, an account can be deleted only after 5 years from the last login date.

FEASIBILITY STUDY

During system analysis, the feasibility study of the proposed system is not to be carried out. This is to ensure that proposed system is not a burden to the company. This study can be categorized into three types. They are:

ECONOMIC FEASIBILITY STUDY

This study is carried out to check the economic impact that the system will

have on the organization. The amount of fund that the company can pour into the research and development of system is limited, the expenditures must be justified.

Thus the developed system was well within the budget and this was achieved because most of the technologies used are freely available.

Only customized products had to be purchased.

TECHNICAL FEASIBILITY STUDY

This study is carried out to check the technical facility, that is, the technical requirements of the system. Any system developed must not have a high demand on the available technical resources. This developed system has modest technical requirements, as only minimal or null changes ARE required for implementing this system.

SOCIAL FEASIBILITY STUDY

This aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the system but must accept it as a necessity. The levels of acceptance by the users solely depend on the methods that are employed to educate the user about the system and make him familiar with it. His level of confidence must be raised so that he is also able to make some constructive criticism, which is welcomed.

SYSTEM CONFIGURATION

1.Hard Disk:128GB&above

2.Processor:PIIIonwards

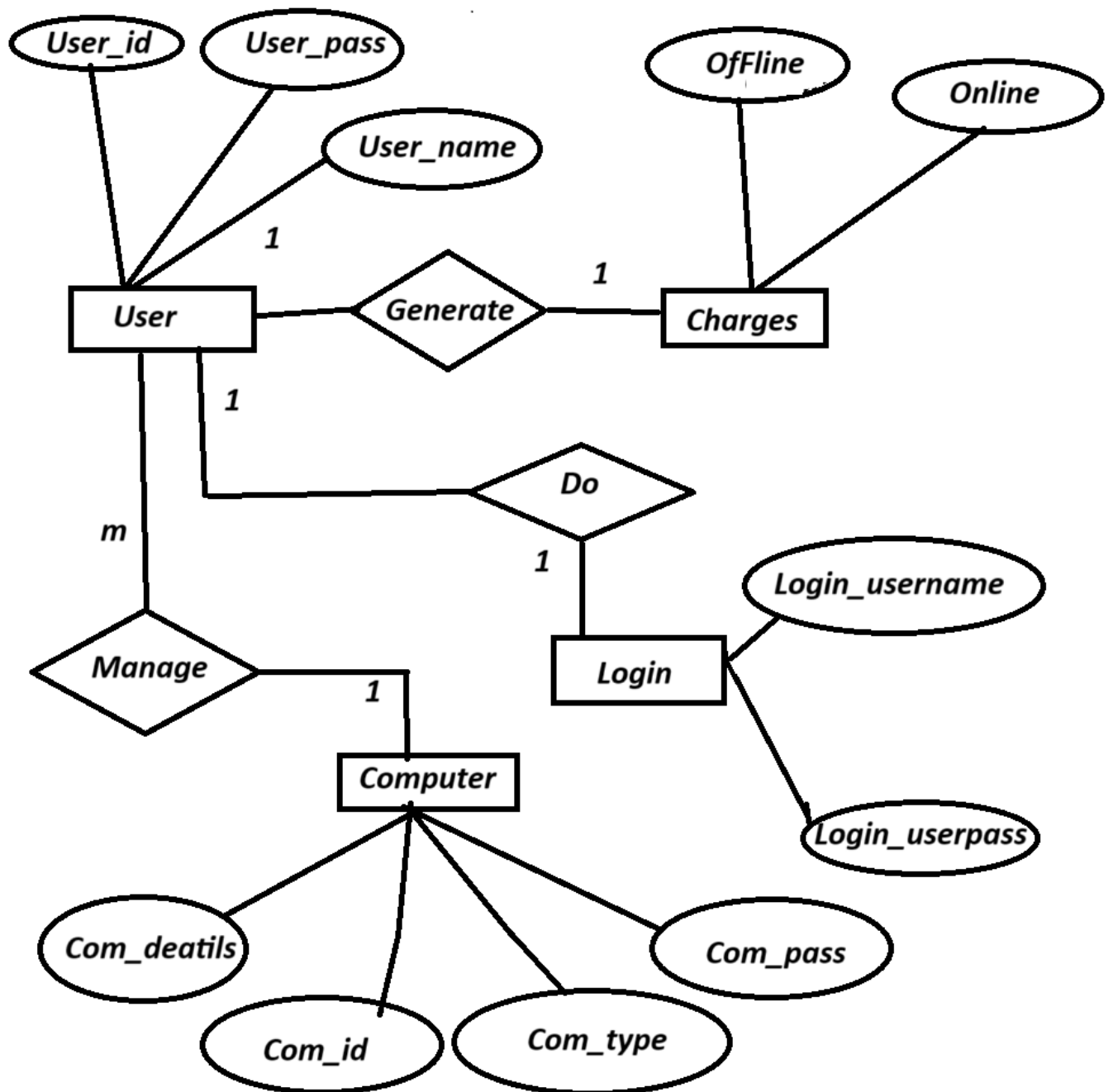
#Minimum Hardware Requirement:

- RAM:256MB & above
- ☐OperatingSystem: Windows 11 &onward
- ☐Frontend: Html, CSS.
- ☐Backend: Jsp, MySQL.

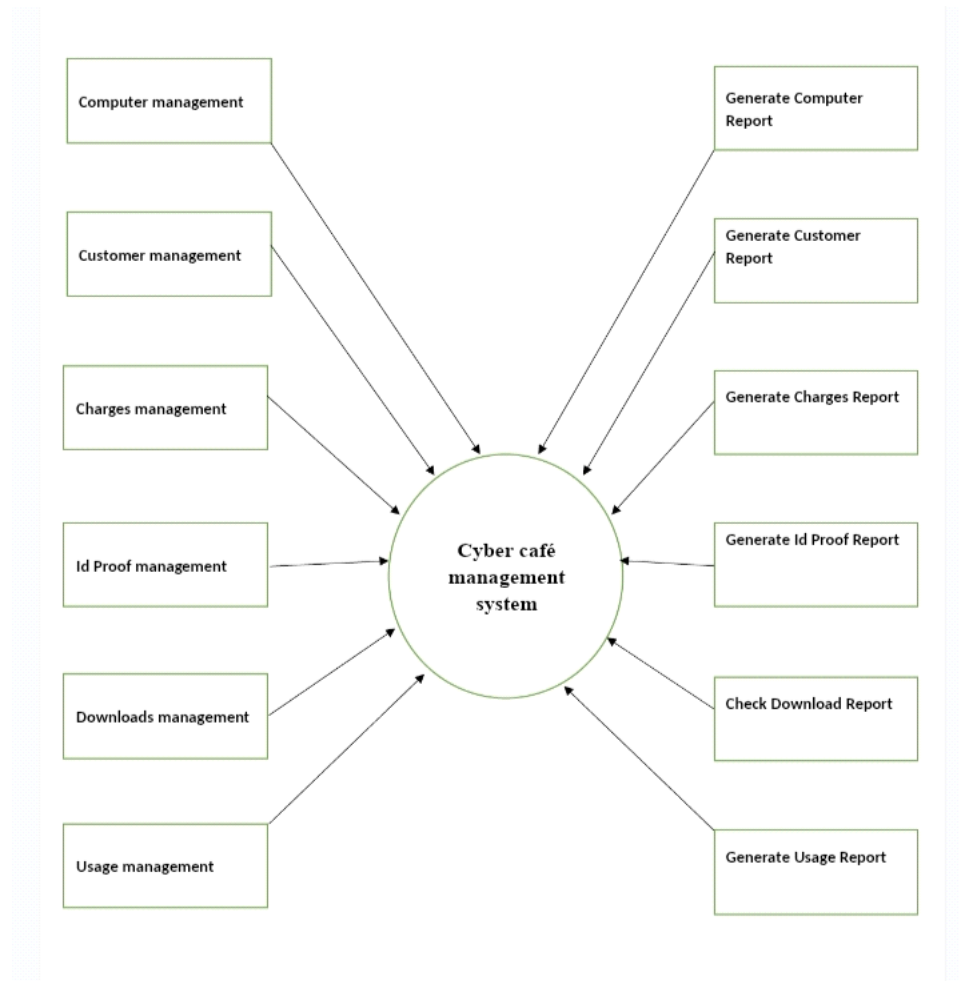
#Software Requirement

- ☐Server:ApacheTomcat.

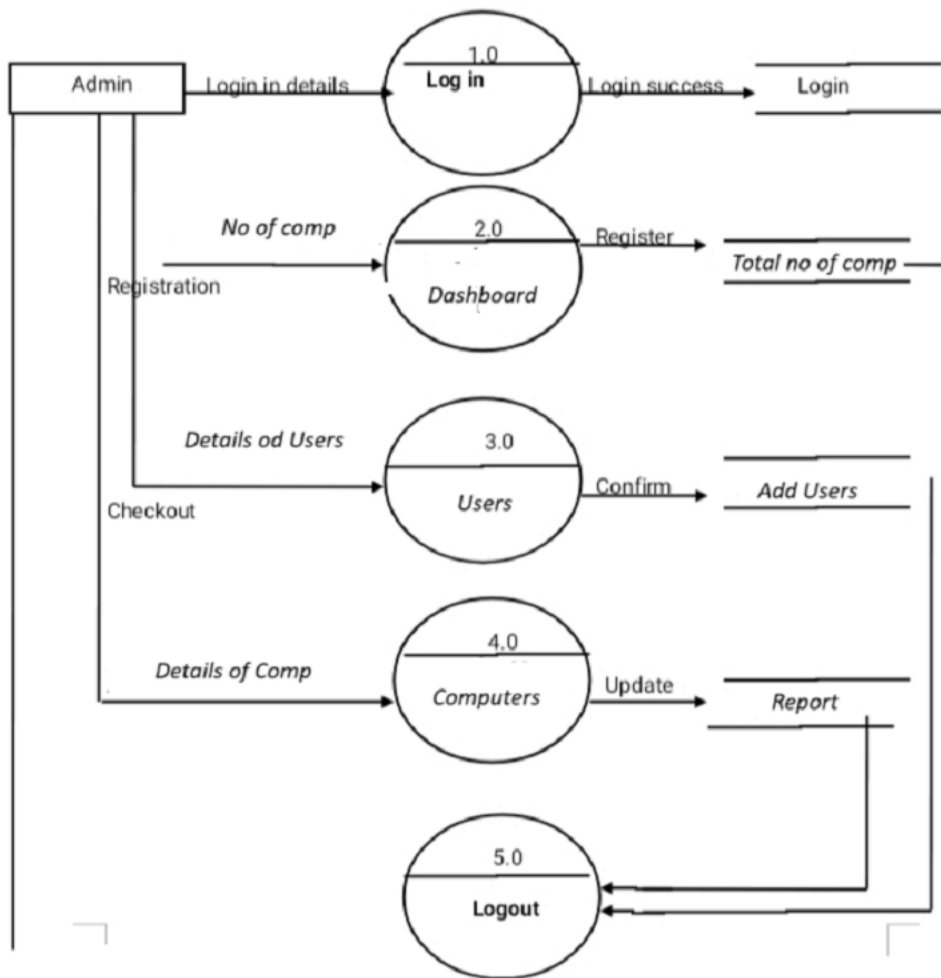
ER DIAGRAM:



***Data Flow Diagram(Context Level)**

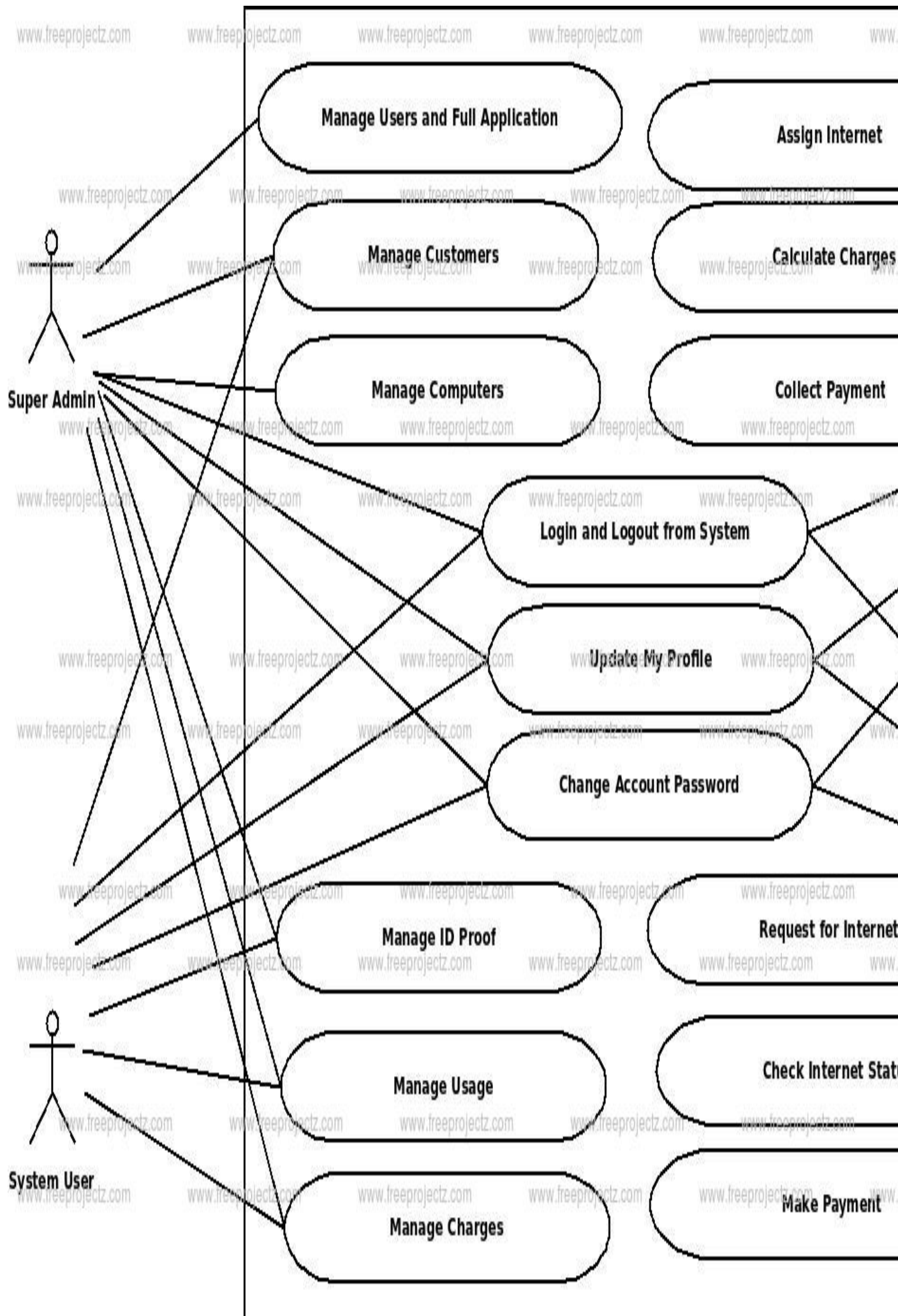


Data Flow Diagram(First Level):



Class Diagram

Use Case Diagram



Sequence Diagram



Admin

Login Success

Customer Management

Computer Management

Charges Management

ID Proof

Login to Page

Add/Edit
Customer

Add/Edit
Computer

Add/Edit
Charges

Manage Customer

Save/Update
Customer

Save/Update
Computer

Save/Update
Charges

Manage Computer Details

List/Delete
Computer

List/Delete
Charges

Manage Charges Details

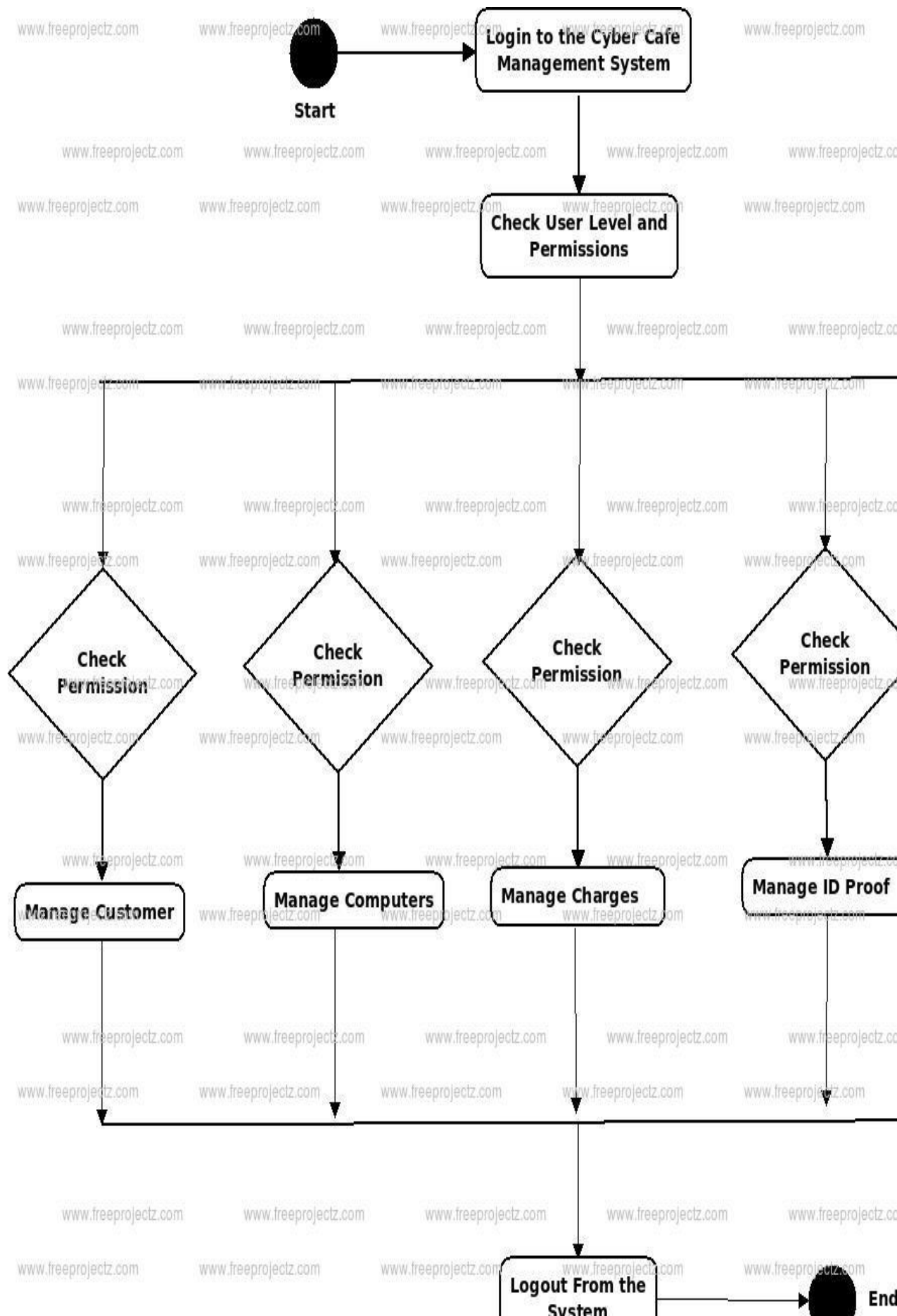
Manage ID Proof Details

Manage Downloads Details

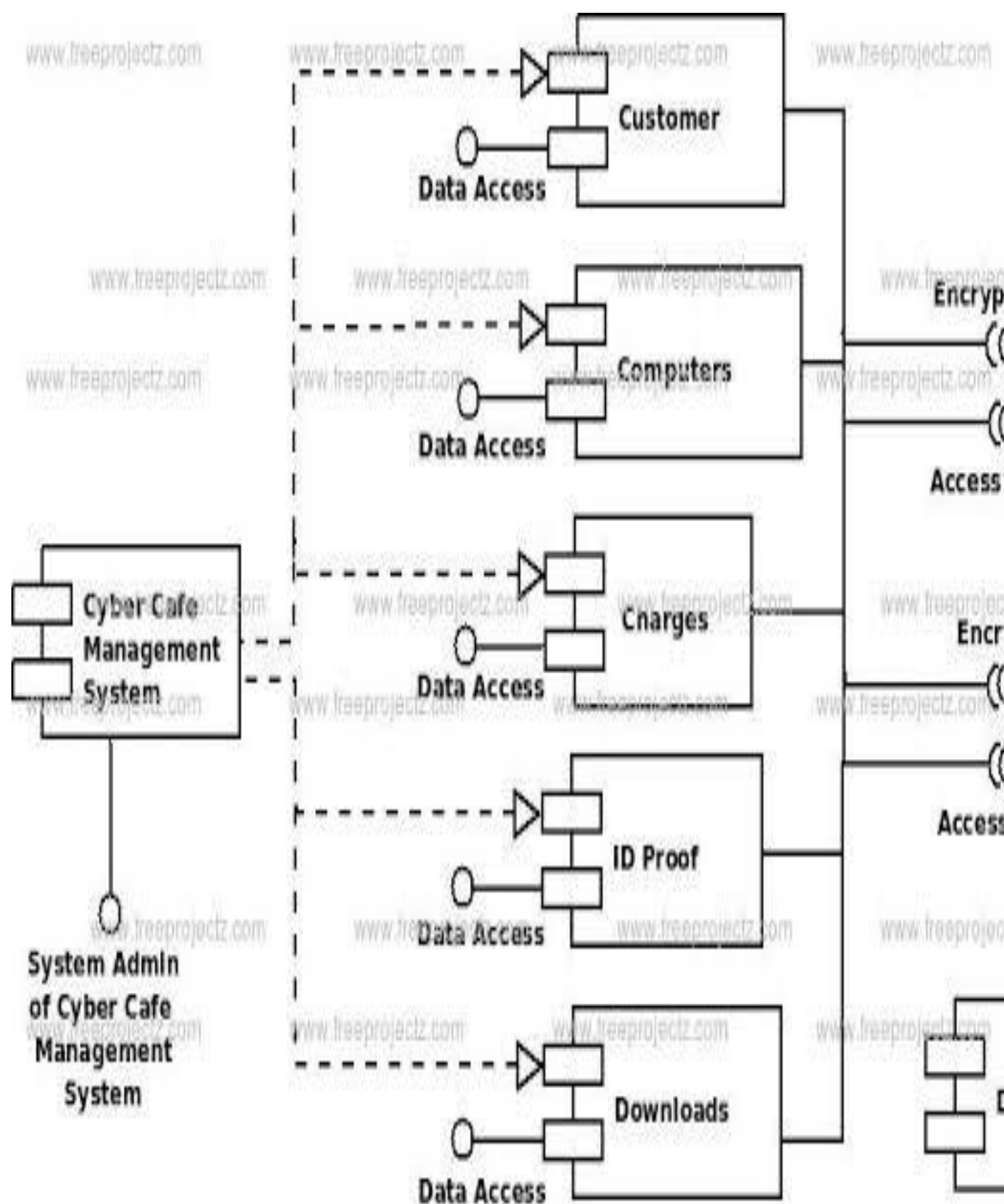
List/Delete
Customer

Sequence Diagram of Cyber Cafe Management

Activity Diagram



***Component Diagram:**



Component Diagram of Cyber Cafe Management System

Data Directory

Balance

FIELD NAME	TYPE	Description
Bid	Number	Id of Balance
B date	Date	Birth Date
Aval balance	Number	Available Balance
Tottime	Time	Total Time
Login time	Time	User's Login Time
Logout time	Time	User's Logout Time

Administretor

FIELD NAME	TYPE	Description
A_Iname	Text	Administration Name
A_Pwd	Text	Administration Password

Member

FIELD NAME	TYPE	Description
M id	Number	Member's ID
M name	Text	Member's Name

Day	Text	Day
Month	Text	Month
Year	Text	Year
Gender	Text	Member's Gender
Addr	Text	Member's Address
Type	Text	Member's Type
Mobile	Text	Member's Mobile
Email	Text	Member's Email
Day1	Number	Member's

Test Plan for CyberCafe System

- **General Information**

- Summary :

We are testing the application of Sales management System which maintains and helps in day-to-day transaction of Sales Department.

- Environment and Pre-Test Background :

This application is being tested in SIBAR (MCA Dept) Computer Lab. No prior testing has been done on this application.

- **Test Objective :**

- Authentication and Authorization.
 - Member Details
 - Time Details
 - Balance Details.
 - Bill Details.
 - Report Details.

- **Expected Defects :**

- Open Defects
 - Close Defects
 - Known Defects

Screen Shots:

*Login Screen *

II ADMINISTRATOR SIDE

i. LOGIN PAGE

CCMS Admin Login

localhost/ccms/index.php

ITSC CYBER CAFE MANAGEMENT SYSTEM

USER NAME

PASSWORD

[Forgot Password?](#)

SIGN IN

Windows taskbar: Search, File Explorer, Edge, etc. Time: 10:28 PM, 03/14/25

ii.HOME PAGE

ITSC

- Dashboard
- Computer
- Users
- Search
- Reports

Dashboard

Dashboard

1

Total Number of Users

3

Total Computers

**** COMPUTER.****

1.Add Computers.

i.Computer Details.

The screenshot shows the 'Computer Details' form in the ITSC application. The left sidebar contains the following menu items: Dashboard, Computer, Users, Search, and Reports. The main content area is titled 'Computer Details' and includes a breadcrumb trail: Dashboard / Computer Details / Add. The form contains three input fields: 'Computer Name', 'Computer Locations', and 'ID Address'. A blue 'Add' button is located at the bottom right of the form.

ITSC

Computer Details

Dashboard / Computer Details / Add

Computer Details

Computer Name

Computer Locations

ID Address

Add

2.Manage Computers.

The screenshot shows the 'Manage Computers' table in the ITSC application. The left sidebar contains the following menu items: Dashboard, Computer, Users, Search, and Reports. The main content area is titled 'Manage Computers' and includes a breadcrumb trail: Dashboard / Manage Computers / Manage Computers. The table has three columns: S.NO, Computer Name, and Action. The data rows are as follows:

S.NO	Computer Name	Action
1	Acer	Edit Details
2	ASUS	Edit Details
3	DELL	Edit Details

ITSC

Manage Computers

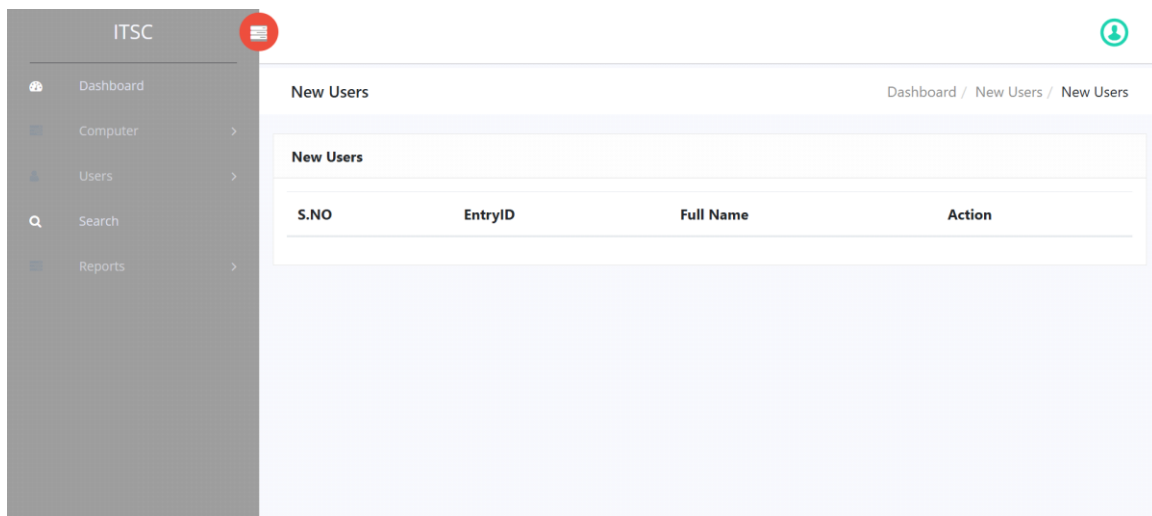
Dashboard / Manage Computers / Manage Computers

Manage Computers

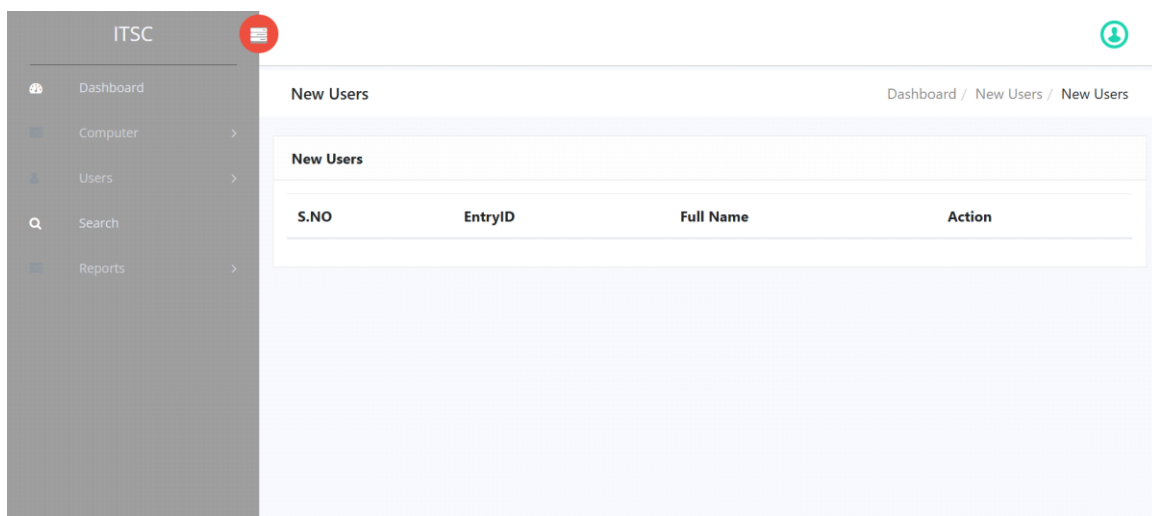
S.NO	Computer Name	Action
1	Acer	Edit Details
2	ASUS	Edit Details
3	DELL	Edit Details

3.Users:

i.Users Detail.



ii. Manage New Users.



iii. View Old Users:

ITSC

Dashboard

Computer

>

Users

>

Search

Reports

>

New Users

Dashboard / New Users / New Users

New Users

S.NO	EntryID	Full Name	Action
1	634737642	Test user	View

4.Search.

ITSC

Dashboard

Computer

>

Users

>

Search

Reports

>

Search Users

Dashboard / Search Users / Users

Search Users

Search by Username or Entry ID

Search

5.Report.

ITSC

Dashboard

Computer

Users

Search

Reports

Between Dates Reports

Dashboard / Between Dates Reports / Reports

Between Dates Reports

From Date

mm/dd/yyyy

To Date

mm/dd/yyyy

Submit

*Admin Profile.

ITSC

Dashboard

Computer

Users

Search

Reports

Admin Profile

Dashboard / Admin Profile / Update

Admin Profile

Admin Name

Admin

User Name

admin

Contact Number

8979555556

Email

admin@gmail.com

Admin Registration Date

*Change Password.

ITSC

Dashboard

Computer >

Users >

Search

Reports >

Change Password

Dashboard / Change Password / Change

Change Password

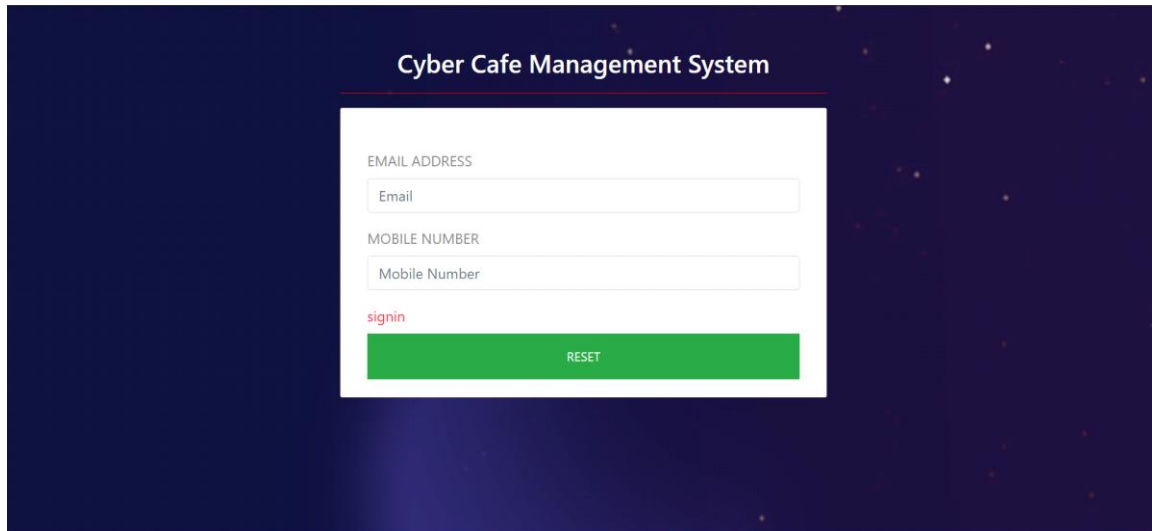
Current Password

New Password

Confirm Password

Change

***Reset**



Cyber Cafe Management System

EMAIL ADDRESS

Email

MOBILE NUMBER

Mobile Number

[signin](#)

RESET

***Logout.**

ITSC CYBER CAFE MANAGEMENT SYSTEM

USER NAME

User Name

PASSWORD

Password

[Forgot Password?](#)

SIGN IN

LIMITATIONS AND FUTURE ENHANCEMENTS OF THE SYSTEM

LIMITATIONS :

The most important limitation of the existing system is , it is Manual system.

Drawbacks of Manual System:

- Time required for validation and updating is more.
- Accuracy is less and incomplete.
- Searching is difficult.
- Repetition of work is going on.
- Keeping track of cabin status is tedious job.

FUTURE ENHANCEMENTS:

The computerized “Cyber Café Management “ is made with intention to make easy to maintain the records and minimize the drawbacks of the system.

Advantages of computerized system over manual system are:

- Computerized system is completely automated thus user can operate easily.
- Time required is very less to makes and search the records.
- Computerized system generates online reports.
- It reduces the data consistency and redundancy.
- Computerized system is very helpful to display all records.

Conclusion

The cyber cafe management system offers several advantages, including streamlined operations, enhanced security, and improved customer experience. By automating tasks such as user authentication, billing, and resource allocation, it increases efficiency and reduces human error. Additionally, features like session monitoring and internet usage tracking help ensure compliance with regulations and protect both customers and the business.

Reference

- www.javapoint.com
- www.tutorialpoint.com
- www.wikipedia.com
- www.google.com

