IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

COLLEGE MANAGEMENT SYSTEM

P. SUBHA, I.FEFINA, C.NIRANJANA DEVI,S. SURUTHIKA,K. SUSHMEENA

Department of Computer Science and Engineering, Sri Bharathi Engineering College for Women, Pudukkottai

Abstract: College Management System provides a complete solution for your college administration. Student Information, Online Results, Quotation Paper, Online Attendants are the main modules of our College Management System. Dynamic and highly motivated, with a liberal & modern outlook on education and organization and a contemporary vision and working style, Educational Management are trying to Incorporate modern concepts, amenities & system to create a forward and vibrant institute, comparable with best & most modern in country. Educational Management Would is able to manage student personal information, Education statistic and highlight achievement and awards. Fee collection of the students is a cumbersome task and there would be a system in place to monitor the fee collection and report to the account department on regular basis. Finally account department to manage, monitor and generate all account detail during the operation of educational management. CMS is a comprehensive system that addresses all functional requirements that can be implementing in operator of college management. Below module, which scope the entire operational requirement of any College Management System.

Keywords: Online Results, Quotation Paper, Online Attendants

I. INTRODUCTION

College management software is prepared to maintain the day-to-day operations in a leading college. This software helps them to maintain the student and employee records. So, the maintain becomes easier. The main objective of college management system is to automate all functionalities of a college or university. Using this system you can manage all college management work like admission, fees submission, time table management and result declaration. Using this college management system, you can view or update data and information about students and staff easily. This system helps in managing the activity like student admission, student registration, fees submission. Admin can also retrieve information of employee student.

The college management systems can be used to store student information like attendance, fees, and student result etc. admin can create report regarding any student any time using this system. Using this system, you can register new student and their course details. You can submit students' fees and can check fees details anytime. You can create exam result and submit in this system. Student can check their result online by logging to the system. You can also add new employee in the system and can check details of the employee easily. Student can also check course detail online from this system.

Using this system, you can manage all information of all aspects of a college, its students, faculties, Departments, marks and other curricular activities. College management system provides the easiest way to manage all functionalities of a college. This system facilitates colleges to maintain the functionality related to college employees and their student.

College Management System can store and manage all data of the various departments of a college like Administration, Attendance, Staff details etc. using this system user can retrieve any information related to student, teacher and fees. Using this system teacher can check student attendance anytime. This system also help teacher to announce the result. College administration can also manage college work easily.

Admin can check leave, salary and other details of teacher any time. They can also create time table of classes from this system. The library module is used for the data process of library and book accessing for students and staff.

The Information System literature strongly suggests that planning for distributed information systems should be centralized. The planning activity should be a top-down process developed from the business planning and information system planning activities. A model of information system architecture should be developed which would serve as the basis for the management and control of information systems

II. LITERATURE REVIEW

Literature survey is the most important step in software development process. Before development the tool it is necessary to determine the time factor, economy and company strength. Once these things are satisfied, then the next step is to determine which operating system and language can be used for developing the tool. Once the programmers start

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

building the tool the programmers, from book or from website. Before building the system, the above consideration is taken into account for developing the proposed system.

The major part of the project development sector considers and fully survey all the required needs for developing the project. For every project Literature survey is the most important sector in software development process. Before developing the tools and the associated designing it is necessary to determine and survey the time factor, resource requirement, man power, economy, and company strength. Once these things are satisfied and fully surveyed, then the next step is to determine about the software specification in the respective system such as what type of operating system the project would require, and what are all the necessary software are needed to proceed with the next step such as developing the tools, and the associated operations.

This paper uses the estimate methods of famous international awards in developed countries for reference to study the estimate of college information management system in the viewpoint of practical application. To study the estimate of college information management system is significant not only for theory of estimate but also for practical worth. The aim of this project is Assessing the domain application of college information manage system will promote the progress of college information management system technology and exchange of college information management system application experience

In this paper, High level inputs (i.e., data sets, processes, rules, and predicates) from the information architecture and business planning activities should be carried through to the low-level design and evaluation activities. Sufficient detail should be provided at the design level to support evaluation of the model. As concerns the first of these, the Brancheau and Whether be model of the planning process for the development of a target architecture shows the integration of business planning and information systems planning prior to information system architecture planning. They show the inputs to the information system architecture planning process to be the information architecture, the application architecture, and information systems policies, objectives and strategies. They do project team are mainly concerned about are the technology of the information system and whether the system functions according to the schedule, budget and goals. This paper is Different subjects at different stages require different estimate principles and estimate indexes. And system effect is also reflected at four different levels or at different levels of human resources.

Counselors are guides and intimate friends for the healthy growth of college students. Counselors' work efficiency has a direct impact on the overall efficiency of school student management. Due to many factors, such as the arrangement of college counselors, the working mechanism of students, the number of students and the proportion of college counselors, the efficiency of student management in many colleges and universities is low. At the same time, the number of counselors cannot meet the actual needs of the complex student management The aim of this project It usually consists of one or more computer clusters and supporting network equipment, storage equipment, security equipment, power system, management and software, etc. This paper studies the information system of counselor's work management based on database and data center

Internet application scenarios. TCP/IP network communication protocol to achieve the global scope of computer network interconnection and resource sharing. Data center providers continue to invest more in machine room facilities, IT equipment and outsourcing services. At present, various countries in the world have successively joined the research work of the next generation Internet architecture and carried out different Internet research projects. software-as-a-service, and platform-as-a-service by service types. It puts powerful computing power in the hands of the user and lowers the requirements on the terminal computer. The next generation communication network adopts the open and layered network architecture, which can effectively separate the service call and control functions.

III. MATERIALS AND METHODS

A use case is a description of how a person who actually uses that process or system will accomplish a goal. It's typically associated with software systems, but can be used in reference to any process.

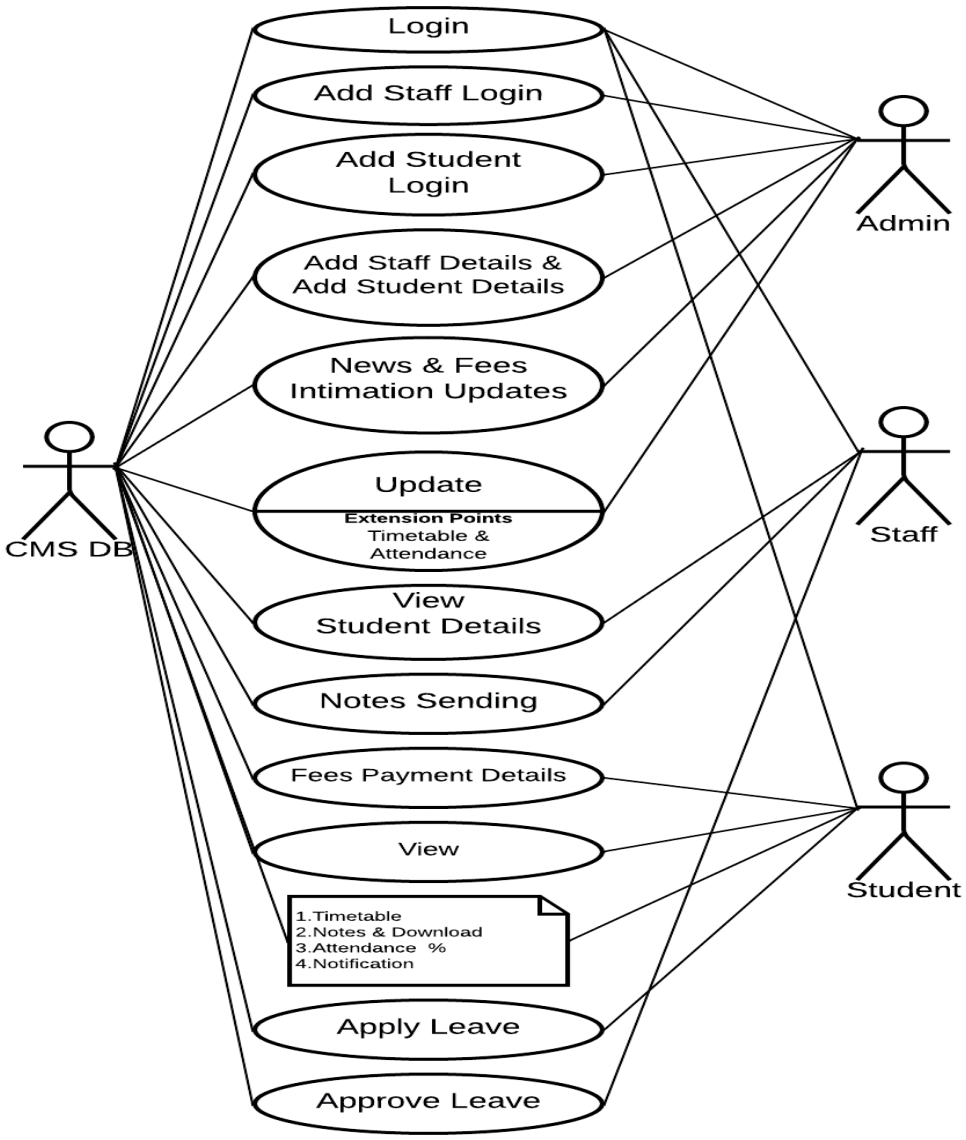
Figure 1: use case

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135



IV. METHODOLOGY

This project has many features which such as the facility of user login and teacher's login. Also, on the top of all this, there is an admin who will be managing the entire application's authorization and authentication, not any intruder can login and modify the data, as a login for admin is also available

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

A. architecture diagram

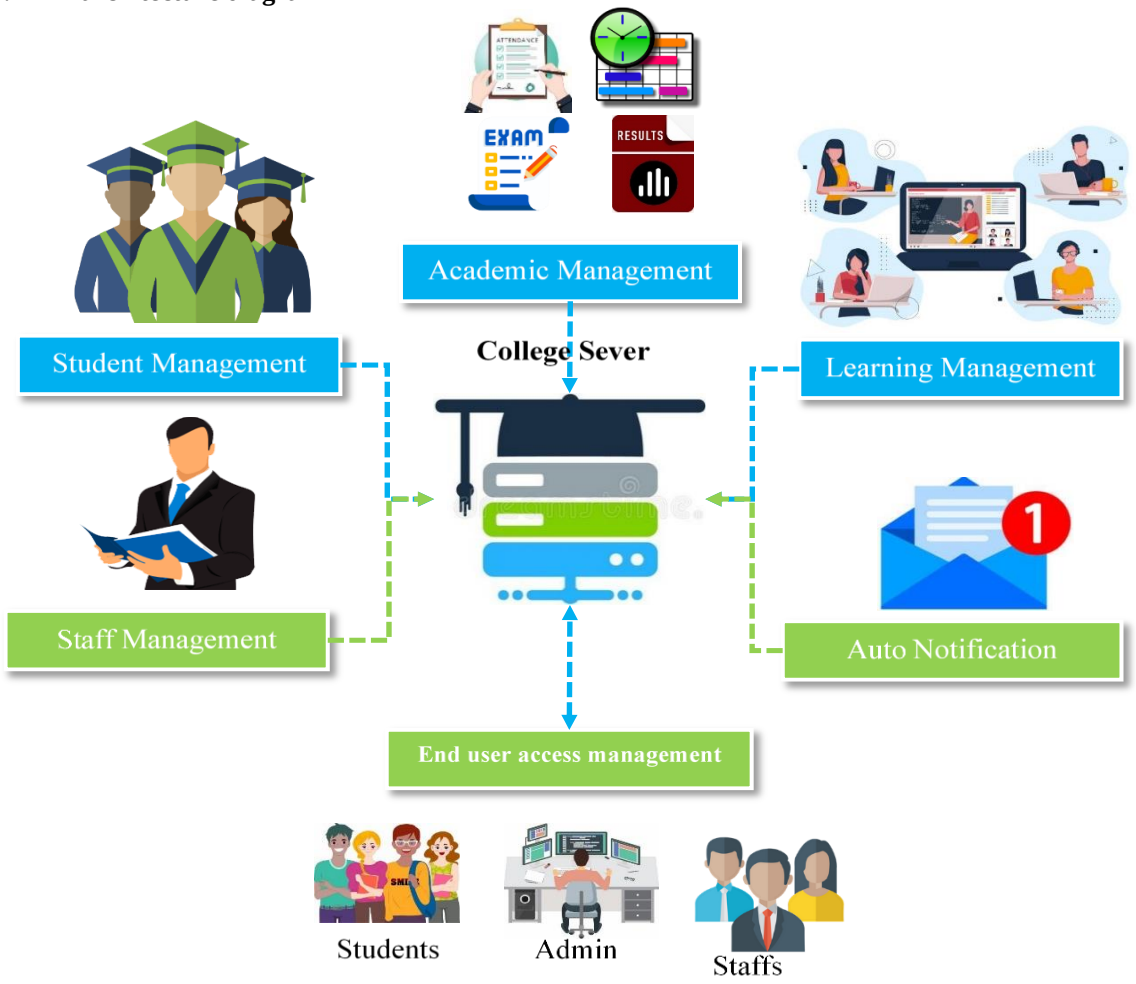


Figure 2: architecture diagram

B.CLASS DIAGRAM

A class diagram is an illustration of the relationships and source code dependencies among classes in the Unified Modeling Language (UML).

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

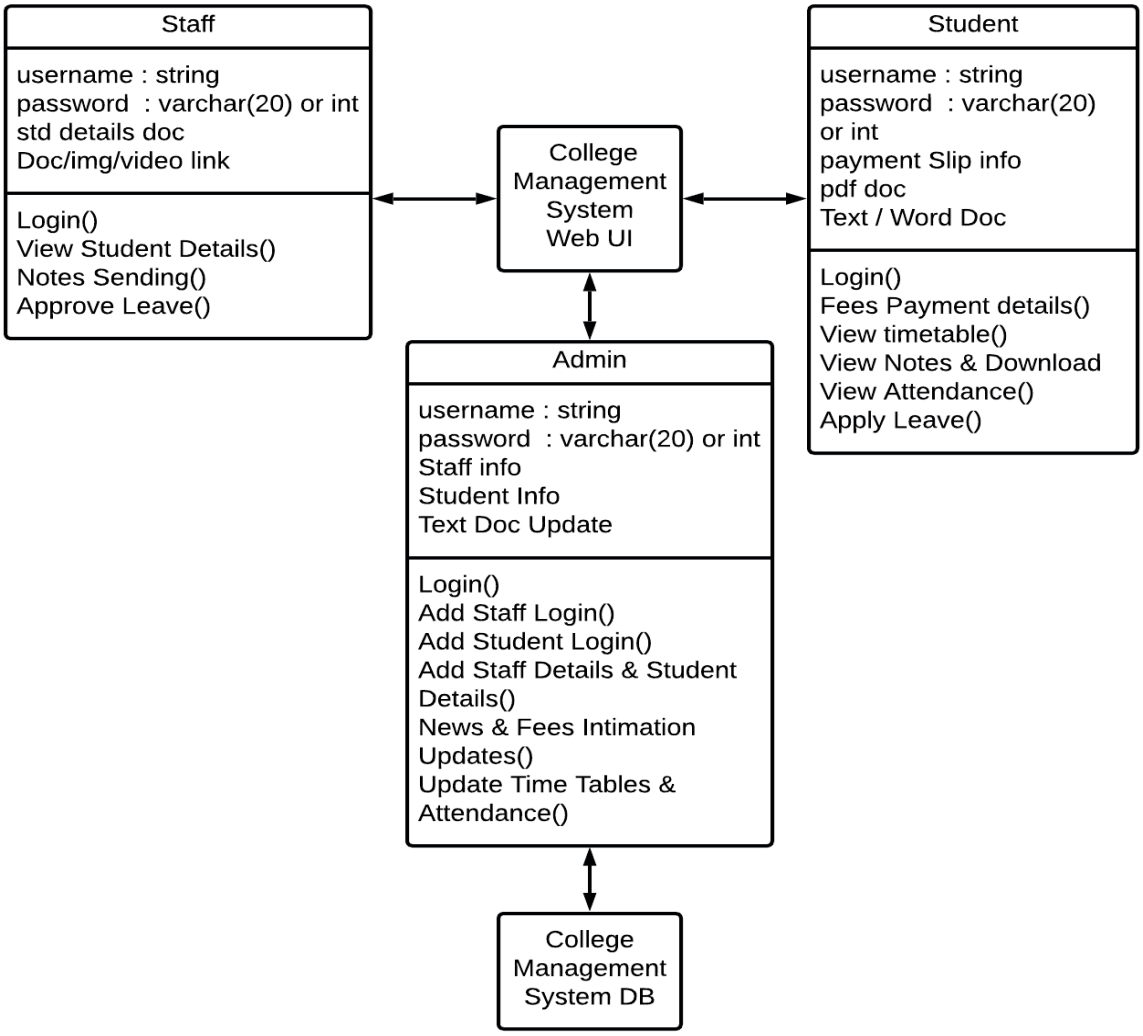


Figure 3 **Class diagram**

✓ **LOGIN:** Staff login his/her A/C and upload student study purpose information.

✓ **VIEW STUDENTS' DETAILS:** Staff can view the students' profiles& marks details

✓ **NOTES SENDING:** Staff's sharing notes to the students, give an instruction for guide the students

✓ **APPROVE LEAVE:** Students leave approved by staff.

✓ **INTERNAL&EXTERNAL RESULT:** In this module maintain by the administration. This module stores the internal and external mark of the student. This well helps to college for producing the result of the students.

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

C. Implementation

I]. Input design:

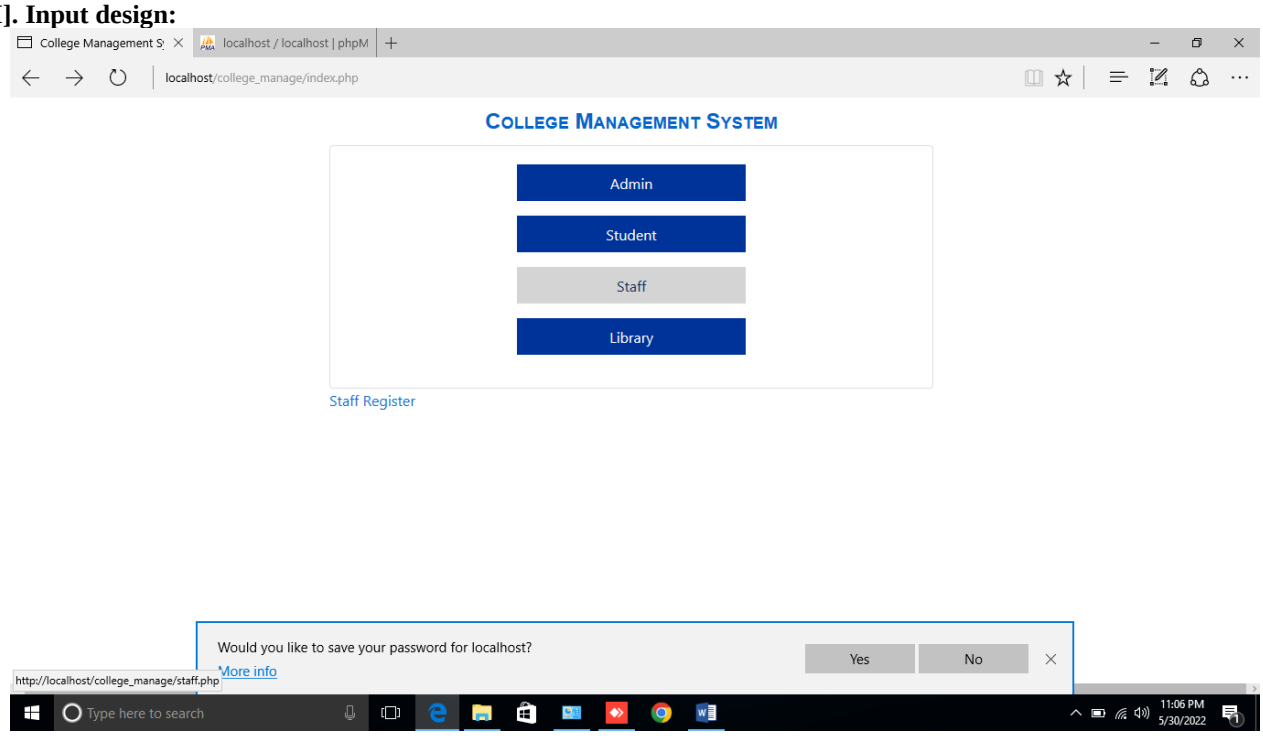


Figure 4: HOME PAGE

This is of generic type software, suitable to all colleges. This software has all the modules to manage college transactions. Separate division is provided to maintain admission process like Student management, Employee management etc.

```
<?php
session_start();
include("include/dbconnect.php");
extract($_REQUEST);
$uname=$_SESSION['uname'];

$q1=mysql_query("select * from cw_student where uname='$uname'");
$r1=mysql_fetch_array($q1);
$photo=$uname.".jpg";
?>
<!DOCTYPE html>
<html>
<head>
<title><?php include("include/title.php"); ?></title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
<style>
body {margin:0;font-family:Arial}

.topnav {
  overflow: hidden;
  background-color: #333;
}
```

Figure 5: coding

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

II]. Output:

Additional feature can be added like online assignment submission and evaluations, online multi chat application for better scope. Further the faculty can upload the videos of their lectures on to this site and students who had missed those classes can view those videos. College bus tracking system for student safety. In the future can captures face biometric from the video stream of participants and gathers the timely responses of students to concept QA and UNI queries, at random intervals of time

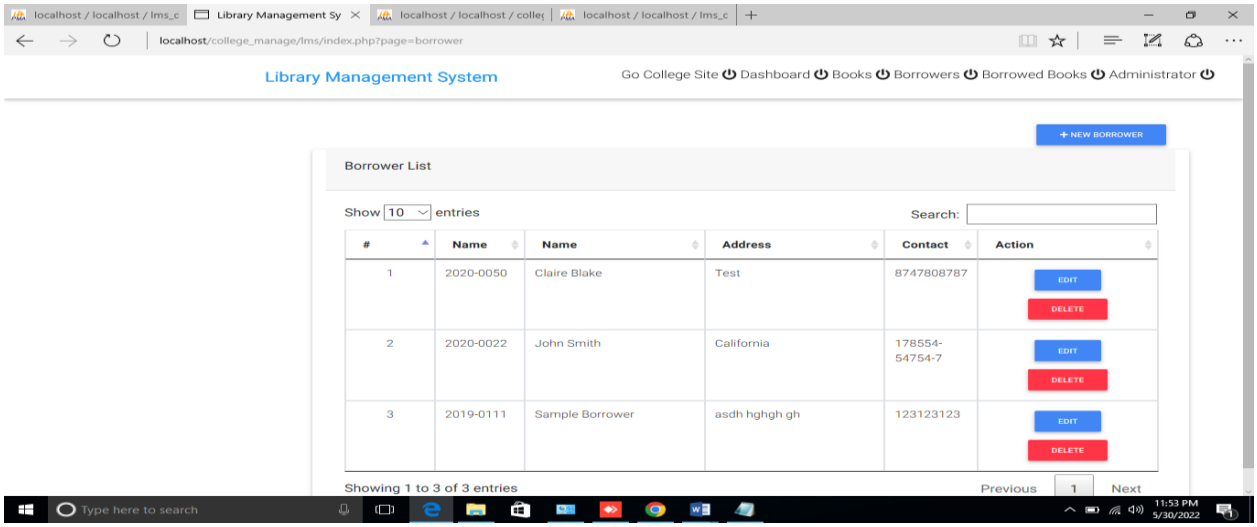


Figure 6: Output

V. RESULTS

A. Pseudo Code/Sequence of Micro Operation/Flowcharts

```
<?php
session_start();
include("include/dbconnect.php");
extract($_REQUEST);
$uname=$_SESSION['uname'];

$q1=mysql_query("select * from cw_student where uname='$uname'");
$r1=mysql_fetch_array($q1);
$photo=$uname.".jpg";
?>
<!DOCTYPE html>
<html>
<head>
<title><?php include("include/title.php"); ?></title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<style>
body {margin:0;font-family:Arial}

.topnav {
  overflow: hidden;
  background-color: #333;
}
```

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

```
.topnav a {
  float: left;
  display: block;
  color: #f2f2f2;
  text-align: center;
  padding: 14px 16px;
  text-decoration: none;
  font-size: 17px;
}


.active {
  background-color: #4CAF50;
  color: white;
}

.topnav .icon {
  display: none;
}

.dropdown {
    float: left;
    overflow: hidden;
}

.dropdown .dropbtn {
    font-size: 17px;
    border: none;
    outline: none;
    color: white;
    padding: 14px 16px;
    background-color: inherit;
    font-family: inherit;
    margin: 0;
}

.dropdown-content {
    display: none;
    position: absolute;
    background-color: #f9f9f9;
    min-width: 160px;
    box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
    z-index: 1;
}

.dropdown-content a {
    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.topnav a:hover, .dropdown:hover .dropbtn {
  background-color: #555;
  color: white;
```

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

```
}

.dropdown-content a:hover {
    background-color: #ddd;
    color: black;
}

.dropdown:hover .dropdown-content {
    display: block;
}

@media screen and (max-width: 600px) {
  .topnav a:not(:first-child), .dropdown .dropbtn {
    display: none;
   }
  .topnav a.icon {
    float: right;
    display: block;
   }
}
```

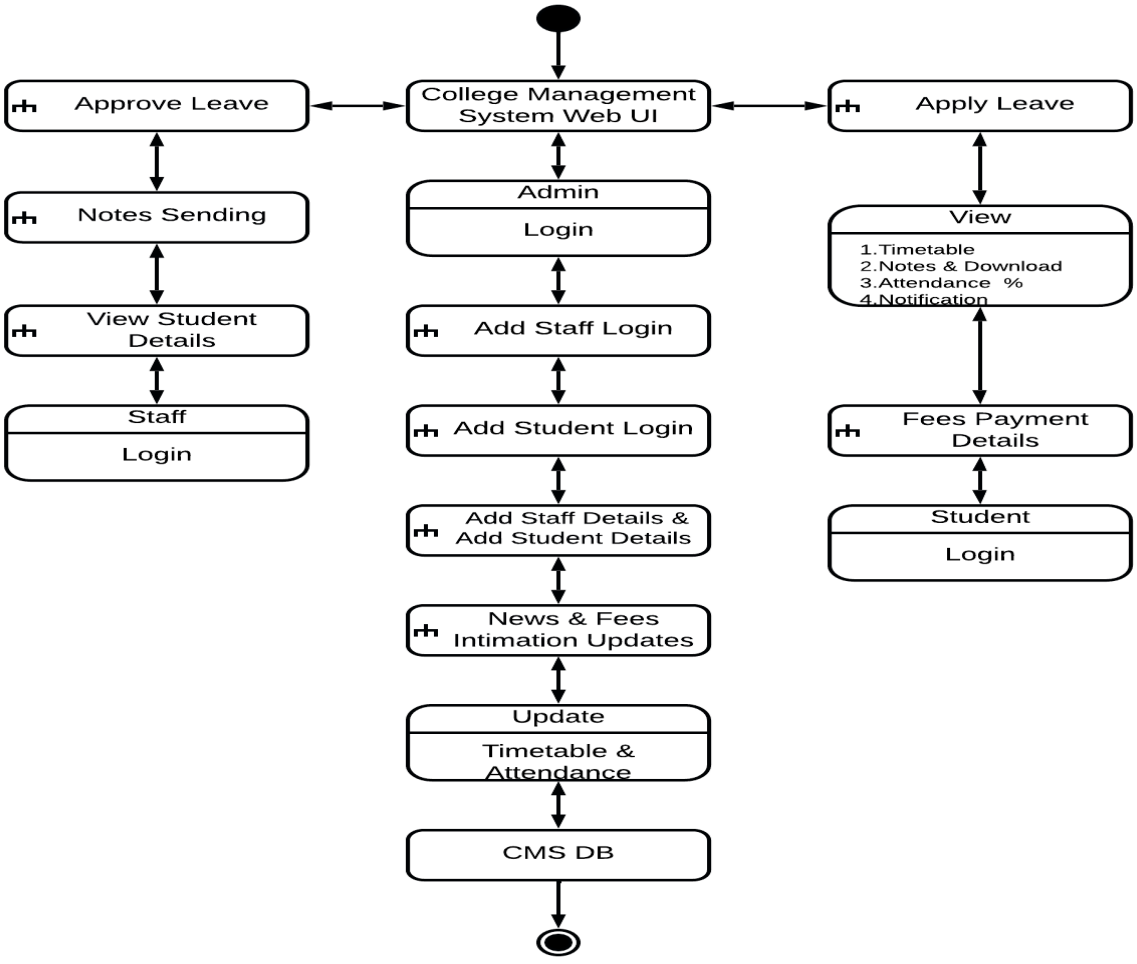


Figure 7: Flow Chart

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

ISO 3297:2007 Certified ⁜ Impact Factor 7.39 ⁜ Vol. 11, Issue 5, May 2022

DOI: 10.17148/IJARCCE.2022.115135

B. Development Process for the Procurement System

College Management System can store and manage all data of the various departments of a college like Administration, Attendance, Staff details etc. using this system user can retrieve any information related to student, teacher and fees. Using this system teacher can check student attendance anytime. This system also help teacher to announce the result. College administration can also manage college work easily.

VI CONCLUSION

This College management system is serving as a useful approach to maintain overall details in the institution. It will be a medium for the institution for proper management of the academic information and the administrative details in an organizing way. This project gave a clear understanding of the key drives that affect the demand for the report system. The maintenance and the elaboration of the project are done easily by the college administration. The administration can work and maintain details efficiently for the help of this system. The institution has to be on the reforms in older procedures, structures and systems and must take precedence over mere technological solutions. The major success of the project is to reduce paper work of the college. The process maintains all the activities of the college in one window. This process has efficient approaches to the students and the faculties in multiple dimensions. It reduces the work load of the institution in the manual procedure of the record maintenance and it helps to store the information in easiest manner. The main advantage of this process is to provide user friendly application to the college administration as well as the student and faculties. Further we can extent this process to allow the public to view this website and allow online admission of student. Then more options are added to improve the performance of this process and to elaborating the college process fully automated.

REFERENCES

[1] D.Vimala, A.Sindhu,S.K.Manikandan .,, "Developing an Android Application for College Management System", International Journal of Future Innovative Science and Engineering Research, Volume-2, Issue-2,JUNE –2016.
[2]Nihaal Mehta , Sudarshan Shinde , Nishi Tiku," Centralized Databasefor Android and Web Application",International Journal ofInnovative Research in Science
[3] Engineering and Technology Vol. 4, Issue 11, November 2015
[4] Mary Jane Magno -Tan, Allan V. Crisostomo, Bill Villaflor, and James C. Faller," Cloud-Based College Management Information System for Universities ", International Journal of Information and Education Technology, Vol. 4, No. 6, December 2014
[5] Pooja Naik, Kavita Kattimani, Suvarnamala Divate, Sadhana K , Amaras Patil and Praveen Kumar Hadapd