

Billing Management System

Soundarya R¹

Asst. Professor. Mr. K. Nirmal,

Krishnasamy College of Engineering and Technology,
Cuddalore.

Abstract

Billing Management System provides a simple interface for maintenance of student information and student billing information. It can be used by educational institute or college to maintain the records of student easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project. The administrator of an organization can edit and find out the personal details of a student and allows the student to keep up to date their profile. The purpose is to develop a billing system to assist in the management of fees which ease the process of doing this job earlier than pen and paper-based management. The basic feature of this project is that it shows fees that the student needs to pay or dues and advance of the student. This will help to calculate the student's fees and other relevant calculations automatically.

1. Introduction

With the continuous growth of college time, the expanding of college scale and the sharp increasing amount of fresh and previous students in each college and university, the relevant information of students has doubled and redoubled. For each of the colleges and universities, faced with such a large amount of information, in order to accurately and efficiently carry out the student's management on the basis of a full grasp of information, the extent of difficult task is unimaginable. Through

the student information system, we can realize the management of students information network-based digitally, track and collect the students information real-timely, accurately, reduce the workload of students information management, promote the scientific and effectiveness of students information management, thus to management of college students to carry out high efficiently.

2. Need of the system

The paper has been developed to help the college for maintaining the fees details of the students, earlier the records were maintained manually, with the help of this paper will be able to improve the productivity, reduce the time, cost factors associated with the system. The automation of the system will help the organization in proper maintenance of the record, less manpower, less cost, proper and accurate functioning.

The basic need for the system was to automate the whole procedure of maintaining of student details, earlier it was all done manually. It improved the efficiency, reduce the cost and reduced the time need to do the work manually. The solution is to automate the system, automation of the students data maintenance would reduce the manpower, man days will result in accurate data and above all increase the efficiency.

3. Objective

The main objectives of billing management system are to manage the details of the student, course, subject, semester, fees. It manages all the information about student,

payment, fees and student. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the student, course, payment and subject. It tracks all the details of Subject, Semester and Fees. It provides the searching facilities based on various factors such as student, subject, semester and fees. It shows the information and description of the student and fees.

4. Existing System

The existing system did not have the option to track bills or fees payments from students. It was done manually. It was a laborious task. The system did not have the option to print the term reports or fee payment reports. All the accounts were maintained manually. It was a difficult task to manage as the college accommodated large number of students.

5. Proposed System

Billing System will help the user to pay college bills and print term reports. There are different types of users like teacher, student and admin. The student shall be able to print reports for the fee paid. The system will also notify the students of outstanding fee payments. This is a simple UI developed using PHP. The database is managed through SQL server. The back-end stores all the details about students.

6. Overall Description

Product Perspective

Billing management system is meant to provide a convenient platform for fee payment and management for all students and administrators. It will have a simple and easy user interface which can be used very comfortably. It can be used in all operating systems without compatibility problems.

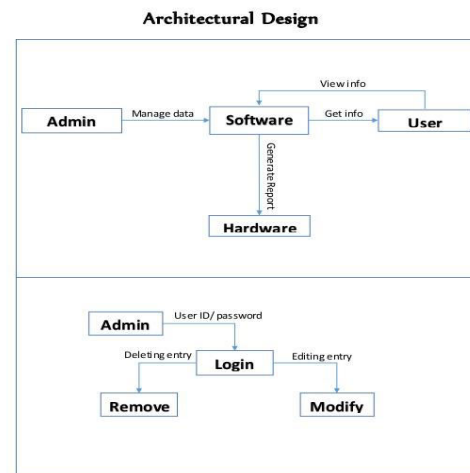
Product Features

Billing management system is used for fees collection in college. It gives details for all

students about their fee structure and administrators to check all the details about student's fee details (paid/unpaid). Administrator features include each student name and their payment details and they have access to make changes to payment details that is changing paid to unpaid or vice versa.

7. System Architecture

The admin can manage data through the billing management software and the admin generate the report using hardware. The software collects the information from the student and the user can view the information. The admin can login the system using user name and password. The admin has the ability to remove the student information and update the student details whenever necessary.



8. Software Description

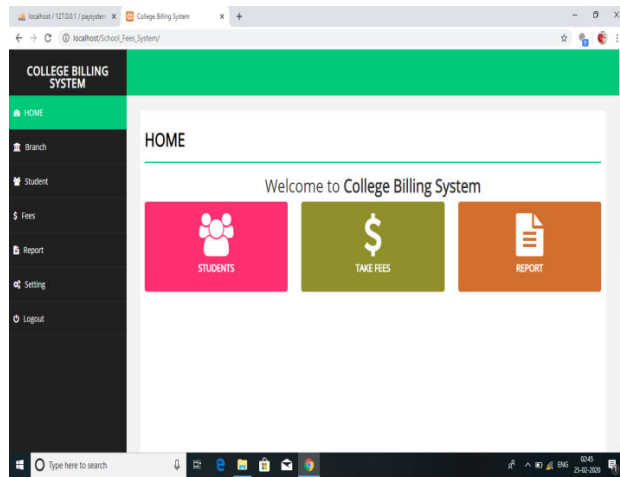
PHP

PHP is a server-side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases

including MySQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

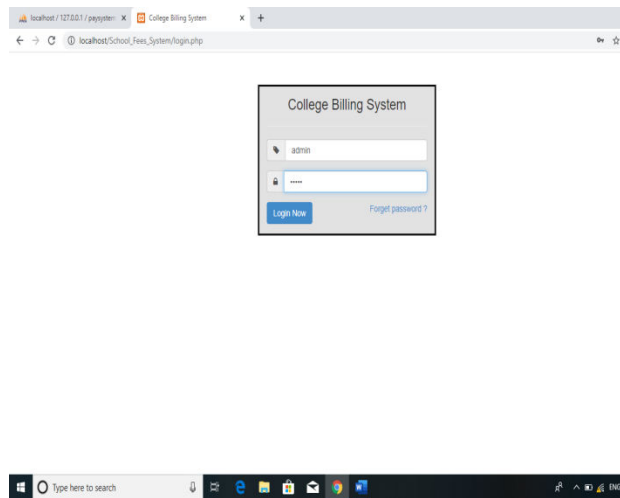
9. Modules

The billing management system consists of modules like login, fees, branches, student and report.



i) Login

The user can login the billing system using username and password.



ii) Branches

This module can add the details of the department and year of the students.

iii) Student

This module can add the student's name, date of joining, fees, balance and other necessary details.

iv) Fees

The fees module takes the input as name, date of joining and branch. It generates fees report for the given student details.

v) Report

Report module list the report of fees details of the student.

10. Conclusion

The proposed system provides high security and a system that reduces the work and resources required in the traditional process. This system provides the new way of computing and displaying operations with responsive and attractive user-interface. College Billing Management System is customizable and is rated very satisfactory in terms of functionality, user-friendliness, usability, mobile-friendly and performance, it is implied that other colleges may adopt this system for more efficient information management and more effective management decisions.

Future Enhancement:

The Billing Management System will be able to implement in future after making some changes and modifications as this project is made at a very low level. So, the modifications that can be done in this project is to add one major change is that to add the snaps of the student of which the record is entered. This will result in total identification of given student. Similarly, various modifications can be done to enhance the usability of the given project as suitable for user's requirement.

Reference

[1] Dr.Suryaprasad J, Praveen Kumar B. O, Roopa D. Arjun - "A Novel Low-Cost Intelligent Shopping Cart", Proceedings of the 2nd *IEEE International Conference on*

Networked Embedded Systems for Enterprise Applications, NESEA 2011, Perth, Australia, December 89, 2011.

[2] Suganya.R, Swarnavali. N, Vismitha. S, Mrs G.M. Rajathi “Automated Smart Trolley with Smart Billing Using Arduino” in *International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)* Volume 4 Issue III, March 2016

[3] Zeeshan Ali, Prof. Reena Sonkusare, “RFID Based Smart Shopping and Billing”, *International Journal of Advanced Research in Computer and Communication Engineering*, Volume. 2, Issue 12, December 2013.

[4] Chen Yu, Yang Shi-qing, "Key Techniques of Student Information Management System Based on Internet & Intranet", *Journal of Wuhan University of Technology (Transportation Science & Engineering)*, Wuhan, 2004, 28(4), pp. 614-617.

[5] SA Shi-xuan, WANG Shan, *Introduction to Database Systems*, Higher Education Press, Beijing, 2002.