Smart Pay

D. Thanusha[1], P. Nagendra Kumar[2], Dr.Y.Jahnavi[3]
[1, 2] Dept of CSE
[2]Assistant Professor, Dept of CSE
[3]Professor, Dept of CSE
[1, 2, 3] GIST, Gangavaram, Kovur, Nellore.

Abstract- *The project titled as "SMART PAY" is a web based application. The website is named as "SMART PAY". An institute which has different branches at different locations want to control and maintain the personal and payment details of students. This application provides facility for recording new student details and payment details. This system allows the students to make a clear understanding of the structure of the fees towards course in which they have been enrolled. It allows the students to make payment of their fees in their own currency giving us a transparency and a clear understanding of the cost of course fee. This system allows the students to make payment using credit cards or debit cards. This system provides secure and quick way to make the money transfer ensuring that the college receives the payment promptly. This Fee Management system mainly reduces the work task and it is easy to maintain the records for a long time than normal hand written records. The administrator can check the payment details of students by just entering his/her Roll Number by logging in to his account, no need to search all the records. The system is designed for fee management of a college administration department. It can save time and energy of the administration department of any college.*

I. INTRODUCTION

Now-a-days all the Educational Institutions are being shifted towards automation of their institutional activities. Any Educational Institution comprises of the students, faculty and maintains different activities related to them. Most of the Institutions are maintaining the details related to their students in the form of records manually. It is very time consuming and taken a lot of time to search for a particular record. Hence there is a need to computerize all the activities being carried out in any institution. The present system is developed to cope up the requirements of any educational institution.

II. EXISTING SYSTEM

In the existing system, a college has to maintain records manually about payment information. College management system is complex and time consuming to maintain fees of students. We know that how difficult the process of paying the fees of colleges because there are many students which are also pay the fees in the college so we have to stand for long time and it is a very time consuming process. Some of the parents who are living in other villages or cities they have to cover long distance only for paying the fees of colleges. This type of process is a time consuming. This increases the paper work and makes the record maintenance tedious.

2.1. DISADVANTAGES OF EXISTING SYSTEM

The current fee management system that is using has some drawbacks. The main drawbacks are:

- The current system is a manual one where the college maintains all the information in the form of records.
- Data entry is time consuming and tedious through paper works.
- No provision for data validation in the manual system.
- Accessing the records for information takes long time.
- Consume more time.
- Gives redundant and inconsistent data.

III. PROPOSED SYSTEM

The proposed system automates the existing system. It decreases the paper work and it maintains the records by connecting to the database. The fee management system reduces the overall work and time duration. It gives clear information about various categories of fees. It also provides timestamps of payment.

3.1. ADVANTAGES OF PROPOSED SYSTEM:

- Less time consuming.
- Best user interface.
- Reduce the burden of the use.
- It is highly reliable.
- Redundancy can be reduced.
- Erroneous data can be avoided.
- Latest technological implementation.

- It is very simple process

IV. METHODOLOGY

4.1. SYSTEM ARCHITECTURE:

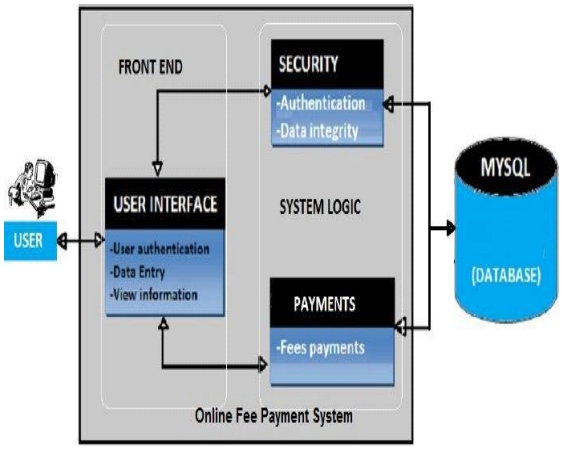

Fig**:** System Architecture of Fee Management System

The application will follow three-tier architecture. In three-tier architecture application will run the traditional client/server model but from the web server. The client only displays the GUI and data but has no part in producing results.

4.2. MODULES:

There are 2 modules in the online notice board system. They are:

1. ADMIN MODULE

i) Login
ii) Admin dashboard
iii) Set Bus fee
iv) Set Building fee
v) Set Hostel fee
vi) Set College fee
vii) Set Event fee
viii) Adding student
ix) Adding department

2. STUDENT MODULE

i) Login
ii) Fee payment
iii) Change password
iv) Set Building fee

V. SYSTEM ANALYSIS

Analysis can be defined as breaking up of any system as to find out their nature, function etc. It defines design as to make preliminary sketch or outline for a plan. System analysis and design can be characterized as a set of techniques and processes, a community of interests, a culture and an intellectual orientation. This system manages the analysis of many fee payments which are provided in colleges. This project will helps to the college people to pay fee through online for all departments.

The various tasks in the system analysis include the following.

- Understanding application.
- Planning.
- Scheduling.
- Developing candidate solution.
- Performing trade studies.
- Performing cost benefit analysis.
- Recommending alternative solutions.
- Selling of the system.
- Supervising, installing and maintaining the system.

Feasibility analysis begins once the goals are defined. It starts by generating broad possible solutions, which are possible to give an indication of what the new system should look lime. This is where creativity and imagination are used. Analysts must think up new ways of doing things- generate new ideas. This system maintains the details of students and their related activities .The present system helps in easy report creation for quick analysis. This project will helps to the college people to pay fee through online for all departments.

VI. TECHNOLOGY DESCRIPTION

I. SOFTWARE SPECIFICATIONS

- Operating System : Windows XP/7/8.
- Application Server : XAMPP
- Front End : HTML,PHP.
- Scripts : JavaScript.
- Server side Script : PHP.
- Database : Mysql.
- Database Connectivity : PhpMyAdmin.
- Editor : Dream viewer.
- Browser : Any browser.

II. HARDWARE SPECIFICATIONS

- System : Pentium IV 2.4 GHz
- Hard Disk : 40 GB

- Floppy Drive : 1.44 MB
- Monitor : 15 VGA colour
- Mouse : Logitech.
- Keyboard : 110 keys enhanced.
- RAM : 256 MB

VII. SYSTEM DESIGN

The **Unified Modelling Language** (**UML**) is a general-purpose modelling language in the field of software engineering, which is designed to provide a standard way to visualize the design of a system.

In 1997 it was adopted as a standard by the Object Management Group (OMG), and has been managed by this organization ever since. In 2000 the Unified Modelling Language was also accepted by the International Organization for Standardization (ISO) as an approved ISO standard. Since then it has been periodically revised to cover the latest revision of UML.

Unified Modelling Language (UML) offers a way to visualize a system's architectural blueprints in a diagram (see image), including elements such as:

- Any activities
- Individual components of the system
- How the system will run
- How entities interact with others (components and interfaces)
- External user interface
-

Although originally intended solely for object-oriented design documentation, the Unified Modelling Language (UML) has been extended to cover a larger set of design documentation and been found useful in many contexts.

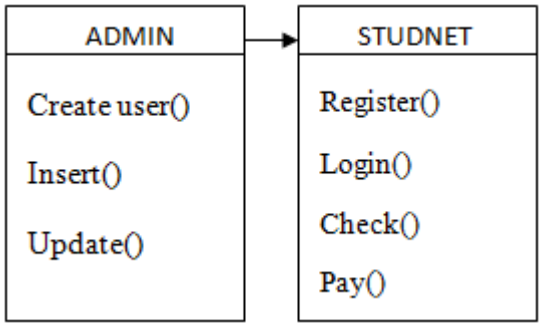

FIG. 1: Class diagram

VIII. CONCLUSION

The project titled Fee Management System has been developed based on the college requirements. The project has met its objectives. The system reliability is high and enough security has been provided. The system is very simple in design and to implement. The new computerized system was found to be much faster, reliable and user friendly.

REFFERENCES

[1] Alex Homer , “Professional php 1.1”, 2004 Edition, Work publications.
[2] Steven Holster, “php Black Book”, 2003 Edition, Dreamtech Publications.
[3] Steven Feuerstein and Billpribyl, “Oracle pl\Sql programming” , P.1104(EST), O’reilly& associates, Inc, 2005.
[4] Microsoft Sql server 2008 Management and Administrator by Ross Misty.
[5] Roger S Pressman, “Software Engineering”, 2000 Edition, Dreamtech Publications
[6] https://www.w3schools.com/php/default.asp
[7] https://www.codecademy.com/en/tracks/php
[8] http://www.learn-php.org/
[9] https://www.tutorialspoint.com/mysql/index.htm
[10] https://www.apachefriends.org/download.html
[11] https://www.tutorialspoint.com/mysql/mysql-create-tables.htm
[12] https://www.apachefriends.org/download.html
[13] https://www.w3schools.com/js/default.asp
[14] https://www.codecademy.com/learn/learn-javascript
[15] https://www.tutorialspoint.com/mysql/mysql-create-database.htm
[16] https://www.tutorialspoint.com/mysql/mysql-database-import.htm
[17] https://www.computer-geek.net/how-do-we-insert-php-code-va-23.html
[18] http://php.net/manual/en/function.mysql-connect.php
[19] https://coolestguidesontheplanet.com/how-to-connect-to-a-mysql-database-with-php/
[20] https://css-tricks.com/snippets/htaccess/use-php-inside-javascript/