Student information system

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Abstract: **Student Information System (SIS) provides a simple interface for maintenance of student information. It can be used by college to maintain the records of students easily. It tracks all the details of a student from the day one to the end of the course which can be used for all reporting purpose, tracking of attendance, progress in the course, semesters, years and all these will be available through a secure, online interface embedded in the college's website. 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.**

Index Terms: **maintenance, record, tracking, information, collecting**

I. INTRODUCTION

It deals with the various activities related to students. It contains two types of user such as Administrator and student. Administrator has the power to add and edit student profile. The administrator can access all the details for the student and it allow the student to keep up to date profile. It also facilitates keeping all the records of students such as their id, name, personal details, Academic details, Fees details and so on. So, all the information about a student will be available in a few second. It also provides a less time-consuming process for viewing, adding, editing and deleting the details of the students

II. EXISTING SYSTEM

The staff enters corresponding subject attendance, marks of a student and other details then those must also be entered in the excel sheets and validations are to be done by the user itself. So, there will be a lot of a work to be done and must be more conscious during the entrance of details. The manual system as the information is missing; repeated and collecting relevant information may be very time-consuming.

III. PROPOSED SYSTEM

In our proposed system, Staff has the facility of entering the student details. It reduces the workload of the staffs. The advantage of the system is that it is very easy to edit details of the student and delete a student when it found unnecessary. The marks of the student are added in the database. These entered details are used to access the performance of the students. These reports can be view by students of the institution. It is easy to filter student database for placement using their result. It allows the students can view their marks whenever they want.

IV. MODULES

There are seven modules are used

1.Login module   2. Academic module
3.User module   4. Examination module
5.Fee module   6. Attendance module

Login Module

It will help users to login into the system using institution id and password. The module provides a layer of security over the system as only authorized personnel can login into the system. It is better than the manual method as they don't have any security measure of who can access the system and who cannot.
There are the two details available:
1) Username
2) Password
1)Username
Staff and student login with their register number.
2)Password
The password should contain one special characters, numbers, upper case alphabets and lowercase alphabets. The password has minimum length is eight and maximum length is ten.

Academic Module

It contains three sections:
1) Academic year
2) Academic department
3) Academic subject

1) Academic year
- It contains academic year of all students.
- The staff has only access to edit and view the academic year of the student.

2) Academic department
- It contains department of academic year.
- The staff has only access to edit and view the department of all academic year.

3) Academic subject
- It contains all academic year subject's semester wise.
- The staff has only access to edit and view the all academic year subject of the student

User Module

There are two users:
1) Admin   2) Student
1) Admin
The Admin has permission to edit and view all students' details. The student details contain the following details
1) Personal details
2) Contact details
3) Parents detail
4) Educational details

1) Personal details:
- It contains student's personal details such as student name, photo, gender, blood group, Nationality, mother tongue, place, D.O.B and so on.

2) Contact details:
- It contains contact details of the students such as address, place, city, nationality, state, pin code and Nativity

3) Parent detail:
- It contains parents' detail such as father name, mother name, phone number, occupation and phone number.

4) Educational details:
- It contains student's educational details such as school name, place, HSC marks, cutoff, SSLC marks, UG college name, place, CGPA and so on.

Student Module

- The student can only view their data and not able to edit their details.
- In this module student view their details such as
1. Educational details
2. Fee details
3. Examination result

Examination Module

The end semester examination results are available and then can search a particular student results also number of pass and fail of the particular subject.
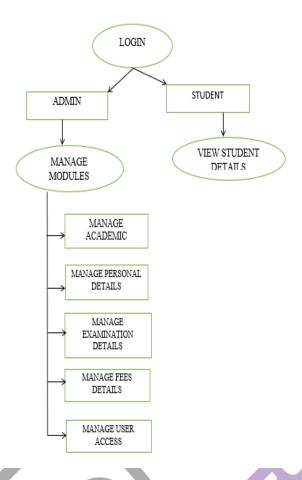
Fees Management Module

The fee details such as tuition fees, bus fees, hostel fees with the total fees and pending fees details.it also have the quota, scholarship and first graduate details and the payment details

Attendance Module

The semester wise attendance was updated for each and every student it consists of number of leave taken, attendance percentage and so on.

V.   ARCHITECTURE FLOW:

Platform and Tools:
PHP, HTML, CSS, JavaScript and jQuery are used for making this website. For saving the data of students we have used MySQL database. The entire website executes on the XAMP server. To Access the website, we can use any type of web browser.

1. PHP
PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1995.While PHP originally stood for Personal Home Page, it now stands for PHP: Hypertext Pre-processor, a recursive backronym. PHP code is interpreted by a web server with a PHP processor module, which generates the resulting web page. PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data. It can be used in standalone graphical applications. PHP is free software released under the PHP License.

2. CSS
Cascading style sheets (CSS) is a style language used to describe the presentation semantics (the look and formatting) of a document written in a markup language. It's most common application is to style web pages written in HTML and XHTML. CSS is a designed primarily to enable the separation of document content (written in HTML or a similar markup language) from document presentation, including elements such as the layout, colors, and fonts.

3. MySQL
MySQL is a fast, easy-to-use RDBMS used for databases on many web sites. Speed was the developer's main focus from the beginning. In the interest of speed, they made the decision to offer fewer features than their major competitors (for instance, Oracle and Sybase). However, even though MySQL is less full featured than its commercial competitors, it has all the features needed by the large majority of database developers. It's easier to install and use than its commercial competitors

4. HTML
HTML is a hypertext markup language which is in reality a backbone of any website. Every website can't be structured without the knowledge of HTML. If we make our web page only with the help of HTML, then we can't add many of the effective features in a web page, for making a web page more effective we use various platforms such as CSS. So here we are using this language to make our web pages more effective as well as efficient. And to make our web pages dynamic we are using Java script.

CONCLUSION

Student Information System can be used by college to maintain their student records easily. It is helpful to identify the students by their area of interest for providing training and it will helpful for the career of student

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