

## STUDENT RESULT MANAGEMENT SYSTEM

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**Abstract -** The main objective of this project is to provide results to the students in a simple way. The students can get results through the college/institution website through their roll numbers. By analysing the result status and applying the standard calculation followed by the University the result are displayed with individual scores and the equivalent percentage. The system is intended for the student. The student can login through their login id and password to check their respective results. This can be achieved with web development technologies like HTML, CSS, PHP, Javascript and using the database MySQL. The faculty can view the overall performance of the students in the semester examinations subject-wise. The visualisation of the overall results according to the subject (The percentage of pass and fail in a particular subject) can be done using fusion charts.

### 1. INTRODUCTION

Student Result Management System is a web-based application that mainly focuses on providing the results to the student and the faculty. The student check their respective results using their University registered recognition id's along with their grades and percentage of that particular semester.

The student accessing their results through college site is more convenient and the faculty can easily analyse the pass and failure of a particular subject. The system is divided into three modules- Student, Faculty and Administrator. The student using his roll number can view his results and the faculty using the joining year and the subject name and view the analysis of pass and failure count in the selected subject.

The administrator uploads the results file to the database by converting the file to sql format(.sql) from the PDF format(.pdf). The admin is provided with the privileges to modify the student results by

updating the results during the changes in supplementary

or revaluation examination. The update of any current score is to be done by the administrator.

To develop a system that will manage:

- Information about the grades obtained in various semesters.

- Information regarding grade and percentage of each semester of a student.

- Visualisation of results that conveys the overall students performances in a particular subject.

The main objective of this system is to provide the student a convenient and simpler way to check their results and for evaluating the total aggregate and the percentage for the semester results available. It assists the faculty and student to analyse his/her and the whole class performance in a subject. The scope of this project is addressed to solve the issues of long waiting and calculation of grades and percentages in different semesters. Providing the results in an institutional website provides an easier access to the results to the student. The graphs for overall performance in every subject makes the analysis task simpler.

### 2. LITERATURE SURVEY

PAPER: Web-based Student Result Management System

AUTHORS: Mohammad Gulam Lorgat

ANALYSIS:

The current research aims at creating a web-based student result management system, reducing time, effort and improving security. The research results in the development

of a multi-user system, based on web technology with architectural pattern and developed using Java programming language with Apache Tomcat Server and MySQL Database Management System support.

PAPER: Student Performance Analysis System (SPAS)

AUTHORS: Chew Li Sa, Dayang Hanani bt. Abang Ibrahim, Emmy Dahlina Hossain

#### ANALYSIS:

The proposed system offers student performance prediction through the rules generated via data mining technique. The data mining technique used in the project is

classification, which classifies the students based on the student's grade. The most effective technique by analysing the results in various techniques is B-Tree.

PAPER: Student Information Report System with SMS (SIRS) in 2016

AUTHORS: Isbudeen Noor Mohamed, Ahmad Tasnim Sidiqui, Syed Ajaz, S Mohamed Idhris

#### ANALYSIS:

The proposed system is an application software and which has an intention to begin a conductive and direct interchanging the statistics in a secure platform to coalesce with students, faculties and the college/school administration. The student can check their results through an SMS sent to the student/parent's contact numbers.

### 3.SYSTEM REQUIREMENT

#### 3.4.1 Software Specifications

- Operating system : Windows XP.
- Front-End : HTML, PHP
- Database : MYSQL
- Model Design : Rational Rose

#### 3.4.2 Hardware Specifications

- Processor : Intel Pentium 4.0
- Ram : 2GB
- Hard disk : 500GB

### 4.TECHNOLOGY DESCRIPTION

#### 4.1 HTML

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web. [4] Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

#### HTML FORMS

HTML Forms are required, when you want to collect some data from the site visitor. For example, during user registration you would like to collect information such as name, email address, credit card, etc. A form will take input from the site visitor and then will post it to a back-end application such

as CGI, ASP Script or PHP script etc. The back-end application will

perform required processing on the passed data based on defined business logic inside the application.

#### 4.2 JAVA SCRIPT

JavaScript often abbreviated as JS, is a high level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multiparadigm. Alongside HTML and CSS, JavaScript is one of the three core

technologies of World Wide Web content engineering. It is used to make dynamic web pages interactive and provide online programs, including video games. The majority of website employ it, and all modern web browsers support it without the need for plug-ins by means of a built-in JavaScript engine. Each of the many

JavaScript engines represent a different implementation of JavaScript, all based on the ECMA Script specification, with some engines not supporting the spec fully, and with many engines supporting additional features beyond ECMA.

#### 4.3 CASCADING STYLE SHEETS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications.

#### 4.4HYPERTEXT

##### PREPROCESSOR(PHP)

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

PHP is a recursive acronym for "PHP: HypertextPreprocessor".

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, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them.

PHP can handle forms, i.e. gather data from files, save data to a file, through

email you can send data, return data to the user. You add, delete, modify elements within your database through PHP.

#### 4.5 DATABASE DESCRIPTION

##### MYSQL

MySQL is an open source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open-source web application software stack (and other &quot;AMP&quot; stacks). LAMP is an acronym for &quot;Linux, Apache, MySQL, Perl/PHP/Python&quot;. Freesoftware open-source projects that require a full-featured database management system often use MySQL. Applications that use the MySQL database include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, Drupal and other software. MySQL is also used in many high-profile, large-scale websites, including Google(though not for searches), Facebook, Twitter, [ Flickr and YouTube.

#### 5. METHODOLOGY

There are three modules. They are

- Student
- Faculty
- Admin

The system can be developed using web technologies HTML, CSS, PhP and using the database MySQL.

The front end can consist of user registration with the respective university registered number and the password by the user.

The student can view his results in the tabular format with the respective aggregate and percentage of that semester.

The data based on the roll number of the student all the data can be retrieved

back to the table and displayed as results.

The PHP can also be used for visualization of data.

We use fusion charts for the dynamic visualization

Primarily the data can be collected from the college administration. This data includes university registered number of every student currently collected is then classified and tabulated into useful and

understandable manner.

HTML is used for structuring the web page and its content. It is used to develop different pages like user registration, login page and the page for providing results.

CSS is used for styling the web page.

PHP is used for connecting to the database and perform operations on it through queries.

#### 6.IMPLEMENTS



Fig 6.1 Results display



Fig 6.2 Registration



Fig 6.3 Visualization

#### 7. TESTING

##### TESTING TECHNOLOGIES

##### System Testing

System testing, or end-to-end testing, tests a completely integrated system to verify that it meets

its requirements. For example, a system test might involve testing a logon interface, then creating and editing an entry, plus sending or printing results, followed by summary processing or deletion (or archiving) of entries, then logoff.

#### **Unit Testing**

Unit testing, also known as component testing, refers to tests that verify the functionality of a specific section of code, usually at the function level.

In an object-oriented environment, this is usually at the class level, and the minimal unit tests include the constructors and destructors.

These types of tests are usually written by developers as they work on code (white-box style), to ensure that the specific function is working as expected.

#### **System Testing**

System testing is the first level in which the complete application is tested as a whole. The goal at this level is to evaluate whether the system has complied with all of the outlined requirements and to see that it meets Quality Standards. System testing is undertaken by independent testers who haven't played a role in developing the program.

#### **User Input Validation Testing**

The User input must be validated to confirm to expected values. The fields should also not be empty.

### **8.FUTURE IMPLEMENTS**

In near future, the system interface could be improved, with more attractive, interactive and meaningful images; enhance the system with an email and SMS or email notifications. Enhance the current system by computerizing almost all the services provided by the institution, turning it into a complete LMS. And evolve the system by developing several versions through users feedback. if a complete solution has not been worked out.

### **9.CONCLUSION**

Student result management system is an online website and can be used at any place, any time and by any student or faculty. This application will avoid the calculation and simplify the process of visualizing results by students as well as faculty.

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