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A Review on Student Result Management System

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Abstract: Student Result Management System (SRMS) is a website designed to store student results at the institution. On this website, HTML, CSS, and JavaScript are used as advanced tools. The project aims to automate semester results management as it is a system for the management of computerized test results of student examination records. It will simplify and accelerate outcomes planning, management processes, and activities such as a craft reduction tool, providing us with advanced preparation for both students and administrative authorities to achieve results. The project aims to provide student test results in an effortless way. It works for students and institutions to get results in an uncomplicated way. Being a result analysis that reflects the nature of the subjects and grades helps students to look at the results. A program designed for students whose rights have been granted to students to read and practice their results by providing usernames and passwords for secure access. In the case of new students, the registration system is ready for use, and the guest user has the right to read only. The full results system (SRMS) will be under the control of the administrator or admin and the administrator or admin has full access to write, read, and show the result. The guide or admin also grants Teacher and students access and guest user access rights. The reader can share or publish his or her result.

I. INTRODUCTION

The study's primary objective is to develop and automate a Student Outcomes Management System (SRMS) for efficient management and publication of student results. This document outlines the software requirements for SRMS, focusing on robustness and accuracy. SRMS is designed to address various issues in managing student results and provides detailed information on current and past semester data.

In the dynamic landscape of education, organized management of student results is essential for educational institutions, such as schools, colleges, and universities. The Student Result Management System (SRMS) emerges as a valuable tool to simplify the complex process of result management. It streamlines academic assessment, grading, record-keeping, and result publication, offering a user-friendly interface and numerous features to enhance efficiency and transparency.

Key features of SRMS include comprehensive student data, including registration numbers, marks, amounts, and ratings. It is accessible to principals for result analysis and offers students a portal to check their current status.

The system caters to three main user categories:

- 1) Administrator/Admin: Manages semesters, accounts, results, and communication.
- 2) Teacher/Staff/Faculty: Handles student lists, marks, and profile updates.
- 3) Students: Create accounts, access semester results, download reports, and update profiles and passwords.

II. LITERATURE REVIEW

In the course of research, a thorough analysis of existing systems related to student result monitoring was conducted, with a focus on their features and capabilities. Four notable systems were reviewed in the literature survey:

- 1) *Faculty Support System (FSS)*: Shana and Venkatalalam proposed the Faculty Support System (FSS), a low-cost system utilizing open-source data mining software, WEKA. FSS employs data mining techniques, including classification, to predict students' performance in specific courses by considering various contributing factors.
- 2) *Student Performance Analyzer (SPA)*: SPA is a secure web-based tool designed for analyzing, displaying, and storing student assessment data. It classifies students' performance relative to expected levels and generates various performance reports, such as progress and achievement reports, based on uploaded student data.
- 3) *Intelligent Mining and Decision Support System (In Minds)*: In Minds is employed by the University Malaysia Sarawak (UNIMAS) to analyze performance across different departments and course fields. It provides insights through figures, formats, and risk analysis, enhancing performance analysis. The system integrates open-source data mining software, WEKA.

- 4) *Student Performance Analysis System (SPAS)*: SPAS, used by the University Malaysia Sarawak (UNIMAS), offers a user-friendly system for predicting student performance, tracking student reports, and examining factors affecting predictions. Reports are generated in Portable Document Format (PDF), making them easily accessible.
- 5) *Additionally, the new Student Result Management System (SRMS)*: Aims to make data storage more efficient and accessible, benefiting institutions, staff, and students. It provides a user-friendly interface for students to manage and track their results, and for teachers and institutional staff to organize data, calculate marks, and streamline their work processes. SRMS leverages technology to automate traditionally manual result management processes, aligning with the broader trend of technology integration in education.

Overall, the literature survey underscores the significance of Student Result Management Systems (SRMS) in modern educational administration, emphasizing their role in enhancing efficiency, accuracy, and the integration of technology in education.

III. CONCLUSION

In conclusion, a Student Result Management System is an essential tool for educational institutions. It provides a centralized database of student information, automates many of the processes involved in managing student data, and improves communication between educational institutions, parents, and students. SIMS provides educational institutions with valuable insights into student performance, which can be used to make better decisions regarding curriculum development, student support, and other areas. Implementing SIMS can help educational institutions save time, improve accuracy, and provide better service to their students and parents. The Student Result Management System (SRMS) is discussed in this work. The product is designed to solve the challenges that understudies face in school with their board records. The SRMS was built with PHP, MYSQL, HTML, CSS, and PHP, and it was hosted locally using Apache web worker. The product improvement concept is also based on the Participatory Steady Process Model (PIP Model). A useful breakdown of the framework and its core components is provided in order to understand the framework's primary functions. Similarly, a use case graph is given to demonstrate the various framework client classes as well as the numerous functionality associated with each framework client.



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