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Student Record Management System

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ABSTRACT: A Student Record Management System (SRMS) is a crucial tool designed to streamline the organization, storage, and retrieval of student information, encompassing personal details, academic performance, and attendance records. By digitizing and automating these processes, SRMS significantly enhances data accuracy and administrative efficiency, reducing the likelihood of errors and the time required for manual data handling. It ensures secure access to student records, protecting sensitive information while making it readily available to authorized personnel. SRMS supports educational institutions by maintaining comprehensive, up-to-date records, which facilitate better decision-making, improve communication between faculty and students, and provide valuable insights for academic planning and student support. Additionally, SRMS can integrate with other educational technologies, creating a cohesive and efficient educational environment. Overall, an SRMS is essential for modern educational institutions seeking to optimize their administrative processes and provide a high level of service to their students.

KEY WORDS: Student record management, Data Cleaning, Deep learning.

I. INTRODUCTION

In the realm of educational administration, the management of student records has traditionally been a labor-intensive and error-prone process. This paper presents a comprehensive overview of a Student Record Management System (SRMS), an advanced digital solution designed to optimize the organization, storage, and retrieval of student data within educational institutions. The SRMS encompasses a wide array of functionalities, managing personal details, academic performance, and attendance records with enhanced accuracy and efficiency.

The shift from conventional paper-based methods to a digital SRMS offers significant improvements in data accuracy and reduces the administrative burden on educational staff. A critical feature of the SRMS is its secure, role-based access to sensitive student information, ensuring data confidentiality and integrity. This security framework is essential in maintaining the trust and privacy of student records while providing real-time updates for informed decision-making.

This explores the benefits of SRMS in fostering improved communication among faculty, students, and administrative staff through a centralized platform for information sharing. The system's capability to integrate with other educational technologies, such as learning management systems (LMS) and financial management tools, further enhances its utility, creating a cohesive and comprehensive educational environment.

II. LITERATURE SURVEY

A review of the literature on Student Record Management Systems (SRMS) reveals a focus on the transition from manual, paper-based processes to digital solutions, highlighting improvements in efficiency and data accuracy. Studies emphasize the benefits of secure, role-based access to student information, which enhances data integrity and confidentiality. Research also explores the integration of SRMS with other educational technologies, such as learning management systems and financial tools, demonstrating a trend towards comprehensive, unified educational environments. Overall, the literature underscores the pivotal role of SRMS in modernizing educational administration.

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III. SYSTEM DESIGN

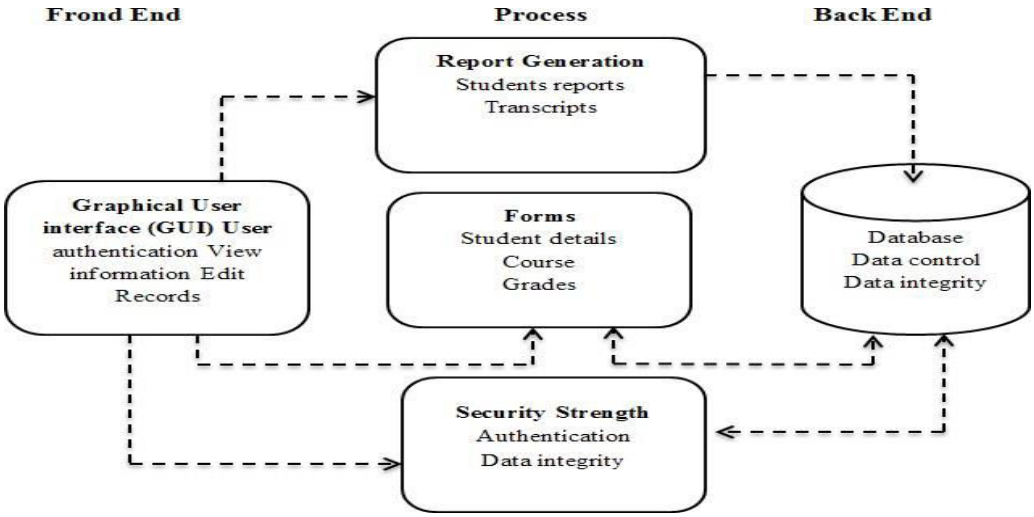

Figure 1: System Architecture

IV. RESULTS AND OUTCOMES

Using Student Record Management System to handle the records of students during their academic performance. Here's an overview of the process, methodologies, and potential outcomes:

- **Data Preprocessing**: Cleaning, normalization, handling missing values.
- **Feature Selection**: Identifying the most influential parameters.
- **Model Training**: Using historical data to train the chosen model.
- **Model Validation**: Testing the model on a separate dataset to ensure accuracy.
- **Prediction**: Using the trained model to forecast future water quality.

Outcomes:

- **Better Record Management**: It helps in better record management.
- **Reduce Use of paper**: Helps in reducing use of paper and ink.
- **Time Management**: Helps in reducing large amount of time in record management.
- **Decision Support**: Providing actionable insights student performance throughout academic.

Snapshots:

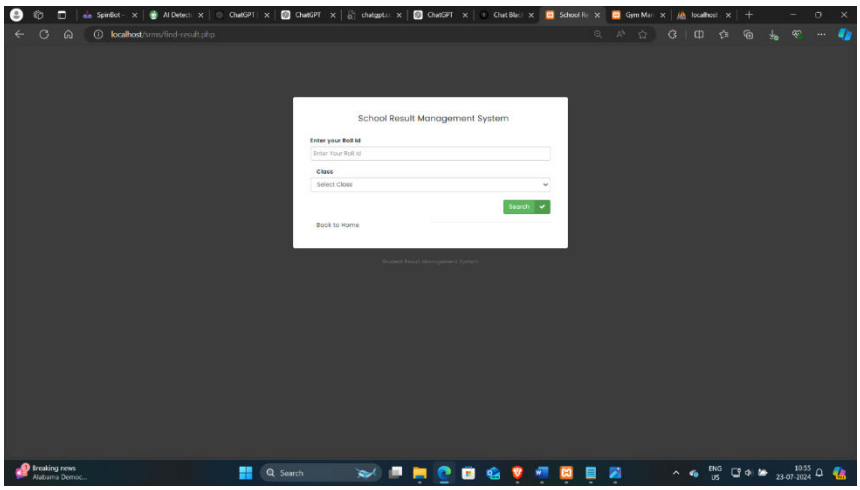

Figure 2:Student Login

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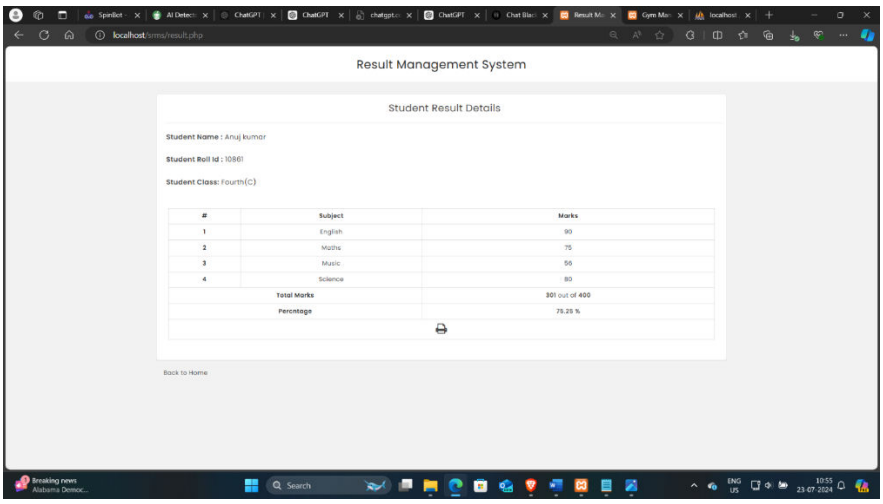

Figure 3: View Student Result

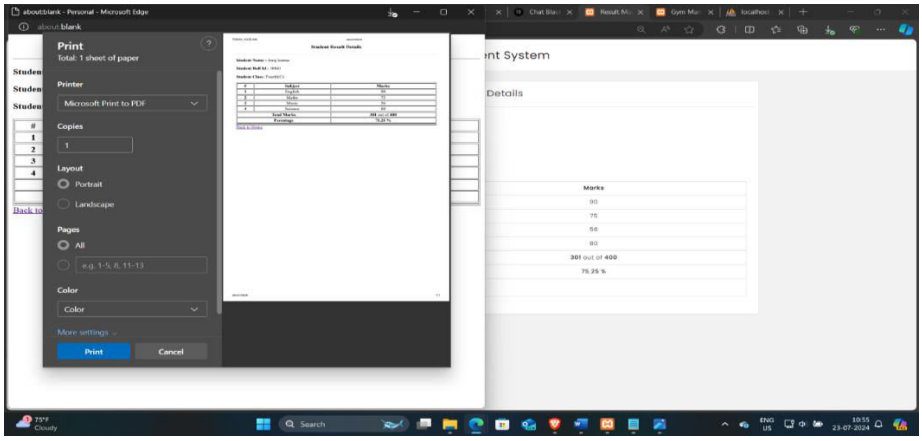

Figure 4: Download Student Result

V. CONCLUSION

In summary, this paper has demonstrated that a Student Record Management System (SRMS) is an indispensable tool for modern educational institutions. The shift from traditional paper-based methods to a digital SRMS significantly enhances administrative efficiency, accuracy, and data security. Through secure, role-based access to sensitive information, SRMS ensures the confidentiality and integrity of student records. Moreover, its ability to integrate with other educational technologies fosters a cohesive and comprehensive environment that supports informed decision-making and improves communication among faculty, students, and staff. The adoption of SRMS not only modernizes administrative functions but also contributes to a more organized, efficient, and responsive educational institution. This advancement ultimately benefits the entire academic community, underscoring the pivotal role of SRMS in contemporary educational administration.

REFERENCES

1. Sharma, A., & Singh, M. (2018). "Development of Student Record Management System using PHP and MySQL." International Journal of Engineering Research & Technology (IJERT), 7(11), 181-185.
2. Khan, F. A., Uddin, M. S., & Karim, M. (2019). "Design and Implementation of Gym
3. Management System with Online Payment System using PHP and MySQL." International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), 4(6), 28-32.

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