



**IJIRCCCE**

e-ISSN: 2320-9801 | p-ISSN: 2320-9798



# INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH


IN COMPUTER & COMMUNICATION ENGINEERING

Volume 11, Issue 4, April 2023

**ISSN** INTERNATIONAL  
STANDARD  
SERIAL  
NUMBER  
INDIA

**Impact Factor: 8.379**

 9940 572 462

 6381 907 438

 [ijircce@gmail.com](mailto:ijircce@gmail.com)

 [www.ijircce.com](http://www.ijircce.com)

# Academic Performance Monitoring System Using PHP

Mr. Rane Vishal Devendra<sup>1</sup>, Mr. Thakur Suraj Suresh<sup>2</sup>, Mr. Adelar Shubham Ramdas<sup>3</sup>,  
Ms. Kasar Krupa Pradip<sup>4</sup>, Mr. Dhandekar R.C.<sup>5</sup>

Diploma Student, Department of Computer Engineering, Yashwantrao Bhonsale polytechnic, Sawantwadi,  
Maharashtra, India<sup>1234</sup>

Faculty, Department of Computer Engineering, Yashwantrao Bhonsale Polytechnic, Sawantwadi, Maharashtra, India<sup>5</sup>

**ABSTRACT:** This paper presents an idea or a concept for educational institutes. The researchers assess the current method used by educational institutions in tracking and monitoring the academic performance of students and see room for improvement. Learning facilitators usually collect academic records of students using the manual approach which is inconvenient and prone to human errors.

The most effective way in resolving this concern is by providing an IT-based solution. The researchers will propose an automated academic performance tracking and monitoring system. The proposed system is a response to the need for an effective and efficient system for tracking and monitoring student's academic performance. The study was conducted to design an automated system for tracking and monitoring students' academic performance. The said project will allow learning facilitators to electronically collect and manage academic records of students for easy and convenient tracking and monitoring. The proposed system will be developed by the researchers using the Software Development Life Cycle (SDLC). The SDLC approach is used because it focuses on the interaction of planning, analysis, and design tasks which leads to implementation followed by operation and support. Interview and observation of the current processes and methods were used as the primary data gathering techniques. After the development, the project will be evaluated by IT experts for further enhancement and improvement.

The implementation of the system will help to learn facilitators improve the process of tracking and monitoring the academic performance of their students. The system will gather accurate and reliable academic records that will serve as a basis in making decisions to further improve the academic performance of students.

**KEYWORDS:-** Student Result Management System (SRMS), Academic Performance Monitoring System (APMS), MySQL, Web Development,

## I. INTRODUCTION

### A. Overview:

This allows academic institutions to monitor and gather data about the academic performance of students where decisions are derived to further improve the student's learning outcomes.

Tracking and monitoring student's performance serves a vital role in providing information that is used to assist students, teachers, administrators, and policymakers in making decisions that will further improve the academic performance of students. In the traditional way, the teachers and school administrators collect academic records of students and extract information from them to assess the students' performance. The manual tracking and monitoring takes time and may encounter human errors resulting in obtaining incorrect information that will affect the decisions made. The changing factors in education have led to the quest on how to effectively and efficiently monitor student performance in educational institutions. To avoid the above-mentioned problems, the researchers proposed a Student Academic Performance Tracking and Monitoring System automate the processes in monitoring the students' academic performance. The teachers will utilize the system from giving assessments up to recording the scores of the students. The system will be reliable in collecting accurate information to help educational institutions arrived at decisions that will help students to improve their academic performance.

### B. Proposed system functions:

The main purpose of this project is to develop an effective system to track and monitor students' academic performance.

The specific objectives of the project are the following :

To develop a system that helps academic institutions arrived at decisions to improve students' academic performance.

The system will be responsible for tracking and monitoring academic performance.

The system will produce accurate and reliable information.

The system will let monitoring of academic performance hassle-free.

### **C. ADVANTAGE OF SYSTEM**

Academic results or more specifically an academic report card communicates and tracks a student's academic growth during the specific period. This has given rise to a demand for an online result management system the ensures that students receive accurate and error free results.

**Fast & Accurate :**

This is the most obvious advantage of an online student result management system. Generally, the traditional paper-based result management system takes time as the teachers need to collate the results, manually calculate, input it into the system and wait until the reports are them printed. This system can take up weeks – during which times the students have forgotten the context and the content of the exam questions.

**Error Free Results :**

For many teachers, the examination period also is a time of stress and anxiety. This is because of the tiresome process of manually collecting the results, marking them, converting the marks into grades, and keeping them safe until the day the parents (or students) get to see them. One of the biggest downsides of the traditional form of result management, it that this entire system is prone to human errors and miscalculations. While handling the manual exam papers, there is also a high chance of losing them, or damaging them due to unforeseen environmental situations. However, the online result management system eliminates all these problems. The automatic calculation and storage of the exam results reduces the burden on the educators and saves the results from any human errors or damages. It Motivates Students And Gives Them An Accurate Indication Of Their Academic Performance. The immediate results not only help to reduce the stress of the students waiting for their results. When they do receive their marks and scores, the faster results also help the students to realize their errors, work on relearning their concepts, and seek improvement before their next text. The online system is able to generate an analytical report of the student's performance. This report can give the teachers and the parents an accurate understanding of the strengths and weaknesses of the child, their academic interests, and the topics on which they might need additional tutoring.

**Bias-Free Checking Of Marks :**

The lack of human intervention in the online result management system ensures that the student results are free from personal biases and prejudices. Most often, these biases can creep in unknowingly, but they affect the marks and the morale of the student.

## **II. SYSTEM ANALYSIS**

### **A. PROBLEM DEFINITION:**

The problem that a Student Academic Performance Tracking and Monitoring System aims to solve is the lack of visibility and insight into student academic performance, which can make it difficult for teachers and administrators to identify and address areas where students may be struggling.

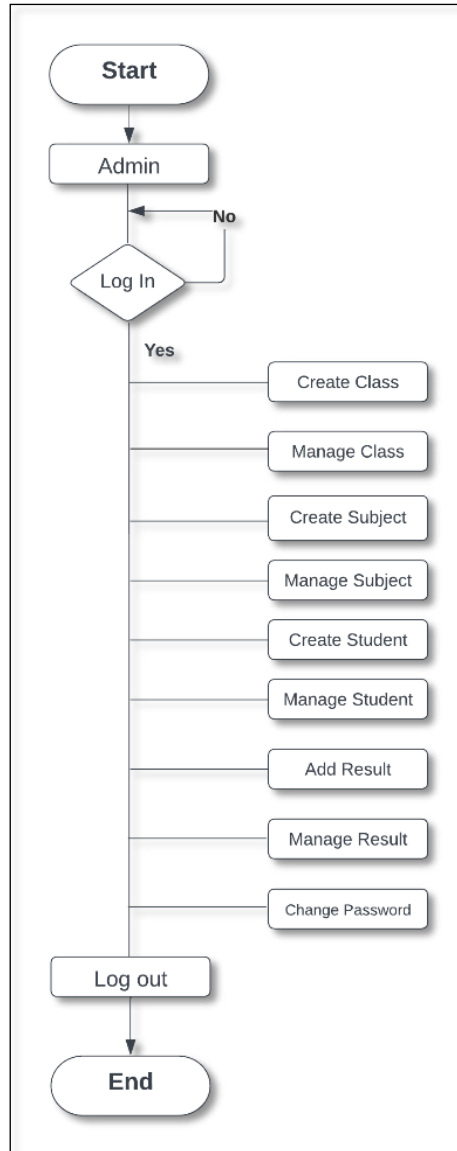
Without a system in place to track and monitor academic performance, educators may have a limited understanding of how individual students are progressing, making it difficult to provide targeted support and interventions as needed. This can result in students falling behind or failing to achieve their academic goals. In addition, without a centralized system for tracking academic performance, administrators may lack visibility into overall school performance, making it difficult to identify areas for improvement or allocate resources effectively.

Overall, the problem that a Student Academic Performance Tracking and Monitoring System addresses is the need for a comprehensive and centralized tool to track and monitor student academic performance, providing educators and administrators with the insights they need to support student success and improve overall school performance.

### **B. IMPLEMENTATION :**

In this web development project were using PHP and JavaScript for frontend And for the Backend MySQL. PHP, CSS, MYSQL, JAVASCRIPT, BOOTSTRAP.

C. FLOWCHART:



III. CONCLUSIONS

A. CONCLUSION:

Tracking and monitoring of students help to learn facilitators ensure that the process of education meets the expected academic performance and learning outcomes of students. The researchers conducted the project to develop an automated system that will track and monitor students' academic performance. This serves as a response of the researchers to the need for an effective and efficient system to be used by academic institutions. The result of the study showed that the developed system met the needs and requirements of the respondents and the intended users. The majority of the respondents and intended users have seen the potential of the system in carrying out the tracking and monitoring of students' academic performance. based on the result of the study, the researchers concluded that the developed Student Academic Performance Tracking and Monitoring System is an effective tool to be used by teachers. The developed system will eliminate all the difficulties and issues encountered in the manual process of tracking and monitoring. The implementation of the system will ease up the job of the learning facilitators and will help develop and improve the academic performance.



#### REFERENCES

- [1] Ukem, E. et al. (2012). A software application for university students results processing. Journal of Theoretical and Applied Information Technology, Vol. 35 No. 1:10.
- [2] Akinmosin James (2014). Automated Students Result Management System using Oracle's Database, Forms and Reports. Journal of Information Engineering and Applications, (Vol 4, No. 11). Retrieved from [www.iiste.org](http://www.iiste.org)
- [3] Akpado K., and Agajo J. (2011). Interactive Intranet Portal for Effective Management in Tertiary Institution. International Journal of Advanced Computer Science and Applications, (Vol. 2, No. 6). [www.ijacsa.thesai.org](http://www.ijacsa.thesai.org)
- [4] Bijoy C., Sanjay K. P., Bhibak S., Nishal M. and Zarmit L. (2016). Accessing a portion of MIS: Result Management System. International Journal of Engineering Trends and Technology, (Vol. 34, No. 5). [www.ijettjournal.org](http://www.ijettjournal.org)
- [5] Duan R. and Zhang M. (2010). Design of Web-based Management Information System for Academic Degree and Graduate Education.
- [6] Bharaagoudar S. R., Geeta R. B. and Totad S. G. (2013). Web-based Student Information Management System. International Journal of Advanced Research in Computer and Communication Engineering, (Vol.2, Issue 6). Retrieved from [www.ijarce.com](http://www.ijarce.com).
- [7] Hemn B.B. and Wu Fei (2014). Student Management Information System. International journal of Computer Engineering and Technology(IJCET), Vol. 5, Issue 2.
- [8] Mariusz Czerniak (2010). Student Management Information System for Polish Universities at its tenth anniversary. Warsaw: MUCI.
- [9] Ajay S. B. and Abhishek K. (2012). Student Database Management System.
- [10] <https://www.wikipedia.com/> Student Information System
- [11] Bhatt J., Jain R., Kadge S. and Parate P. (2016). Result Generation System for CBGS Scheme in Educational Organization. International Journal of Research in Engineering and Technology (IJRET), Vol. 5, Issue 2 from <http://www.ijret.org>
- [12] Nmaju O., Nwachukwu E. O., and Ugwu C. (2013). A Novel Web-based Student Academic Records Information System. West African Journal of Industrial and Academic Research, Vol. 7, No. 1.
- [13] Charletta F. G. (2004). Ethics in Information System: Student Performance in Evaluating Ethical Dilemmas. Communications of the International Information Management Association, Vol. 4, Issue 1.
- [14] JISC InfoNet (2007). HEI Records Management, Guidance on Managing Students Records.



Impact Factor: 8.379



# INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

 9940 572 462  6381 907 438  [ijircce@gmail.com](mailto:ijircce@gmail.com)



[www.ijircce.com](http://www.ijircce.com)

Scan to save the contact details