## **IJARSCT**



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 3, June 2023

# A Review on Exam Management System

Prof. Mr. A. A. Hipparkar<sup>1</sup>, Mr. A. S. Ranaware<sup>2</sup>, Mr. R. S. Landage<sup>3</sup>, Mr. S. P. Borate<sup>4</sup>, Mr. Y. B. Tate<sup>5</sup>

Professor, Department of Computer Engineering<sup>1</sup> Students, Department of Computer Engineering<sup>2,3,4,5</sup> College of Engineering, Phaltan, Maharashtra, India

Abstract: The Exam Management System (EMS) is a vital component of educational institutions, facilitating efficient and organized administration of exams. This paper presents a comprehensive review of existing literature on EMS, highlighting its functionalities, benefits, challenges, and future prospects. The primary objective of this review is to provide researchers, educators, and system developers with a comprehensive understanding of the current state of EMS and its potential for improvement. The review begins by discussing the core functionalities of an EMS, including exam scheduling, registration, question bank management, exam administration, result processing, and report generation. The benefits of implementing an EMS are then explored, such as improved accuracy, reduced administrative burden, enhanced transparency, and increased accessibility for both students and faculty

Keywords: Exam, Timetable, Notices, Supervision chart, Marksheet, Attendance, EMS

#### I. INTRODUCTION

In educational institutions, the management of exams plays a crucial role in assessing student knowledge and evaluating their academic progress. Traditionally, this process has been manual and time-consuming, involving numerous administrative tasks such as exam scheduling, registration, question paper preparation, invigilation, result processing, and report generation. However, with the advancements in technology, the introduction of Exam Management Systems (EMS) has revolutionized the way exams are managed.

An Exam Management System is a software application designed to automate and streamline the entire exam management process. It provides a centralized platform for administrators, faculty, and students to efficiently handle various tasks related to exams. By digitizing and integrating multiple exam-related functions, EMS offers significant advantages in terms of accuracy, efficiency, transparency, and accessibility.

This review paper provides an overview of Exam Management Systems, exploring their functionalities, benefits, challenges, and future prospects. By examining existing literature and synthesizing key findings, this paper contributes to the understanding of EMS and its potential for improving exam management in educational institutions. The insights and recommendations presented herein serve as a valuable resource for researchers, educators, and system developers aiming to enhance the effectiveness and efficiency of exam management processes.

#### II. LITERATURE REVIEW

In recent years, the field of education has witnessed significant advancements in technology, leading to the adoption of digital solutions to enhance various aspects of academic administration. One such area that has seen considerable transformation is exam management. Traditional paper-based examination systems are being replaced by innovative and efficient exam management systems, which streamline the entire examination process, from question paper generation to result declaration.[1] These systems not only reduce the administrative burden on educational institutions but also offer numerous benefits to students and faculty members.

To conduct this literature review, a comprehensive search was conducted across various academic databases, including IEEE Xplore, ACM Digital Library, and Google Scholar. Keywords such as "exam management system," "online examination," "automated assessment," and "computerized testing" were used to identify relevant studies published. The search was further refined by considering studies that focused on exam management systems in educational institutions, including schools, colleges, and universities.

DOI: 10.48175/IJARSCT-11415

Copyright to IJARSCT www.ijarsct.co.in



## **IJARSCT**



Impact Factor: 7.301

#### International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 3, June 2023

Overall, this literature review aims to contribute to the existing body of knowledge by providing a comprehensive analysis of the research conducted in the field of exam management systems. By synthesizing the findings from various studies, this review intends to shed light on the challenges, opportunities, and best practices associated with the implementation and utilization of exam management systems, thereby facilitating informed decision-making and future advancements in this domain.

In 2019, Manish Kumar Thakur [1] have created an android application with SQL server is used and data is stored in college server. This android application has three logins as Admin, Student and Teacher. The existing system drawbacks like not User-friendly UI, more calculations, Extra manual work, Errors are corrected in this application. The proposed system is very user friendly so no need of training for users to operate this application.

In 2018, M Ashok Kumar [2] This is android application used by students, teachers, and parents. This is college activities management system application which is used to maintain fest, functions, celebrations, workshops etc. This application can remove drawbacks like not good user interface, slow calculations and more manual work.

In 2022 Rushikesh Basatwar [3] This College Management System application provides an autonomous solution of the paper-based work. This is controlled and monitored by admin. The man power is reduced by using this application. It provides accurate information all the time as faculty member or student needed. The college management can make useful decision using the data that are stored in the university database server. All the administrator, authorities, faculty, student and guardians will get the desired data directly.

In 2016 Srikant Patnaik [4]This project is based on College Management System. It manages the college information, student information, placement information, various different types of event going on in our college. It also keeps track records of all the information regarding students those who are placed in the various organization. It has a notice board which contains information about various cultural or technical or any sports which is supposed to be held soon. With the help of this project, you can view the previous videos with the help of internet connection.

In 2018 [5] The main purpose behind the system is for assigning a user-friendly user interface. This system also maintains the data properly and up to date which is conserved for a long period of time. The storage facility will make the task easy of the handler.

### III. CONCLUSION

This review paper has provided a comprehensive analysis of the Exam Management System (EMS), exploring its functionalities, benefits, challenges, and future prospects. The literature reviewed demonstrates that EMS offers significant advantages for educational institutions in terms of accuracy, efficiency, transparency, and accessibility. The functionalities of EMS, including exam scheduling, registration, question bank management, exam administration, result processing, and report generation, have been identified as crucial components that streamline the exam management process. By automating these tasks, EMS improves administrative efficiency, reduces errors, and saves

### REFERENCES

- [1]. SUMAN CHATTERJEE, MANISH KUMAR THAKUR, "Smart College Management System" International Journal of Engineering Research & Technology (IJERT) NCRAEM 2019 Conference Proceeding.
- [2]. M. ASHOK KUMAR, CH. MOHAN SRINIVAS, K. VISHU VARDHAN REDDY, K. KIRAN KUMAR"College Activity Management System" Proceedings of the Second International Conference on Intelligent Computing and Control Systems (ICICCS 2018).
- [3]. RUSHIKESH BASATWAR, AAKASH PATIL, RUSHIKESH TAIWADE, PRATEEK SAHU, PROF. PRIYADARSHANI PATIL "College Management System" International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) volume 2, may 2022.
- [4]. Asst. Professor Srikant Patnaik, Khushboo kumari Singh, Rashmi Ranjan, Niki Kumari "College Management System" International Research Journal of Engineering and Technology (IRJET) volume 03, may 2016.
- [5]. Prof. Mandar Ganjapurkar, Sachin Tripathi, Sahil Vedpathak, Abhishek Walavalkar "College ERP System" International Journal of Creative Research Thoughts (IJCRT) volume 6, Issue 2 April 2018

DOI: 10.48175/IJARSCT-11415



time and effort.