



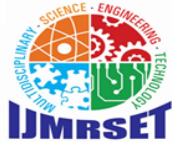
# International Journal of Multidisciplinary Research in Science, Engineering and Technology

*(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)*



Impact Factor: 8.206

Volume 8, Issue 5, May 2025



## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

# Examination Automation Management System

**Prof. Vikas Gaikwad, Shejal Shitole, Bharti Shilpa Rao, Gaurav Sable, Prathmesh More**

Department of Artificial Intelligence and Data Science, Shree Ramchandra College of Engineering Lonikand,  
Pune, India

**ABSTRACT:** The Examination Automation Management System (EAMS) is developed to modernize and simplify the exam processes in educational institutions. Traditional exam management often involves a lot of manual work, which can lead to errors, delays, and inefficiencies. EAMS addresses these challenges by automating critical tasks such as exam scheduling, seating arrangements, invigilation duty allocation, and hall ticket generation. The system offers a user-friendly platform for administrators, faculty, and students, making the examination process smoother, faster, and more reliable. By centralizing all exam-related activities and providing real-time updates and notifications, EAMS improves communication, reduces manual errors, ensures better data security, and saves valuable time and resources. This project demonstrates how automation can enhance the transparency, efficiency, and overall management of examinations, setting a strong foundation for future advancements like AI-driven monitoring and online exams.

**KEYWORDS:** Exam Block Allocation System, Exam Seat Allocation System, Exam Seat Arrangement.

## I. INTRODUCTION

Examinations play a vital role in evaluating students' knowledge, learning progress, and academic performance. However, as educational institutions grow in size and complexity, managing examinations manually has become increasingly difficult. Traditional exam management involves tedious tasks like scheduling, seating arrangements, hall ticket generation, invigilation assignment, and result processing, which often lead to human errors, delays, and miscommunication.

To address these challenges, the Examination Automation Management System (EAMS) was developed. This system aims to automate and streamline the entire examination workflow using modern digital tools and technologies. By providing a centralized platform for administrators, faculty, and students, EAMS ensures efficient scheduling, secure handling of student data, automated seat allocation, invigilator duty management, real-time notifications, and quick hall ticket distribution.

Through automation, EAMS not only saves time and reduces manual workload but also enhances transparency, accuracy, and security in the examination process. It is designed to deliver a seamless experience for all stakeholders, improving the overall effectiveness of academic institutions in managing their examinations.





## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

### II. LITERATURE SURVEY

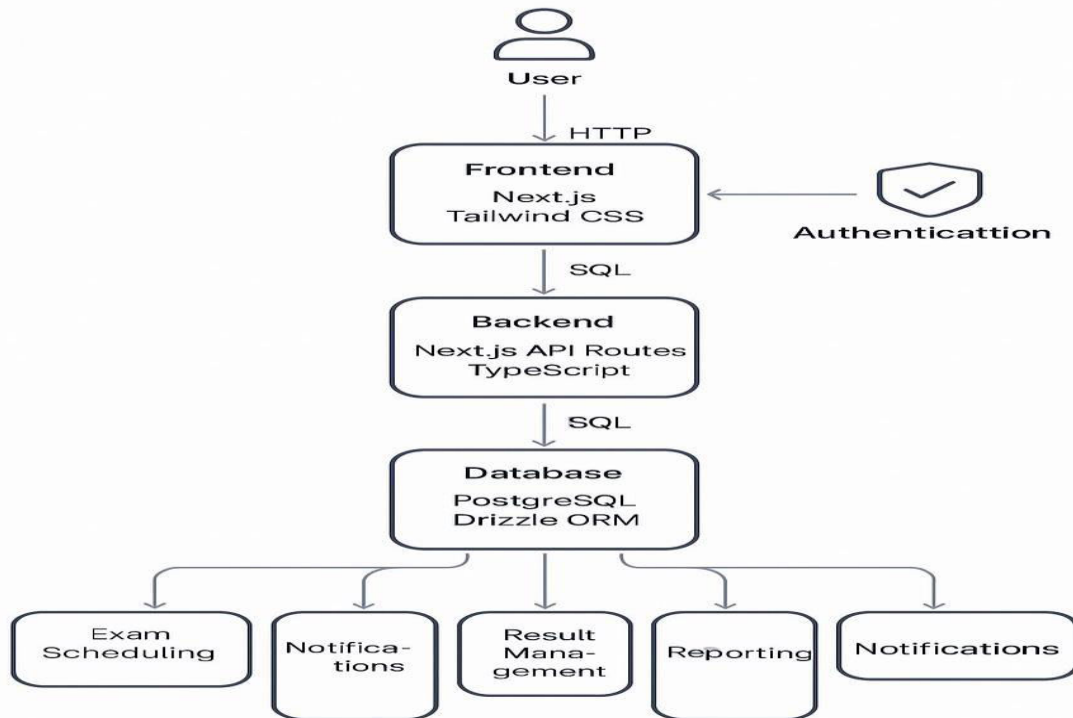
SRNO.	AUTHORS	TITLE	APPROACH	PUBLICATIONS
[1]	Divya H, Nandhini S., Shobana S. and Dr. M. Sujithra	Examination management system	This examination management system includes many key features and modules. It includes Plan and Register module, Question Paper module, Conducting Exams modules, and evaluate and Publish module.	International Journal of Advance Research (IJAR) January 2021
[2]	R.Gokila1 , Antony Rohan Dass	Examination Hall and Seating Arrangement Application using PHP	This is developed for the college to simplify the allocation of halls and issue hall tickets to students during exams. It facilitates to access the examination information of a particular student in a particular department.	International Journal of Engineering Science and Computing, February 2018
[3]	Vamsi Krishna Yepuri, Gopi Chand Pamu, Naveen Kodali , Pradyumna L V	Examination Management Automation System	Its is to computerize the traditional way of conducting exams. It is a web and android application created using <u>Python</u> . It can be used by students and exam cell coordinator using their smart phones or PCs.	International Research Journal of Engineering and Technology (IRJET), Apr-2018
[4]	Dinesh Chandewar, Mainak Saha, Pushpraj Deshkar, Pankaj Wankhede, Prof. Suwarna Hajare	Automatic Seating Arrangement of University Exam	The main agenda of the paper is to lessen the mammoth task of manually allocating seats during an examination .The tool provides an effective measure to dynamically allocate students in a classroom.	IJSTE - International Journal of Science Technology & Engineering , March 2017



## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

### III. SYSTEM ARCHITECTURE



### IV. RESULT ANALYSIS

**Create an account**  
Enter your information to register

**Full Name**

**Email**

**Password**

**Confirm Password**

**Register**

Already have an account? [Login](#)  
[Back to home](#)

Fig1-Registration /Login



## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

**Verify Your Login**  
Enter the verification code sent to your email

Verification Code

Enter 6-digit code

**Verify**

[Back to Login](#)

Fig 2-Verification

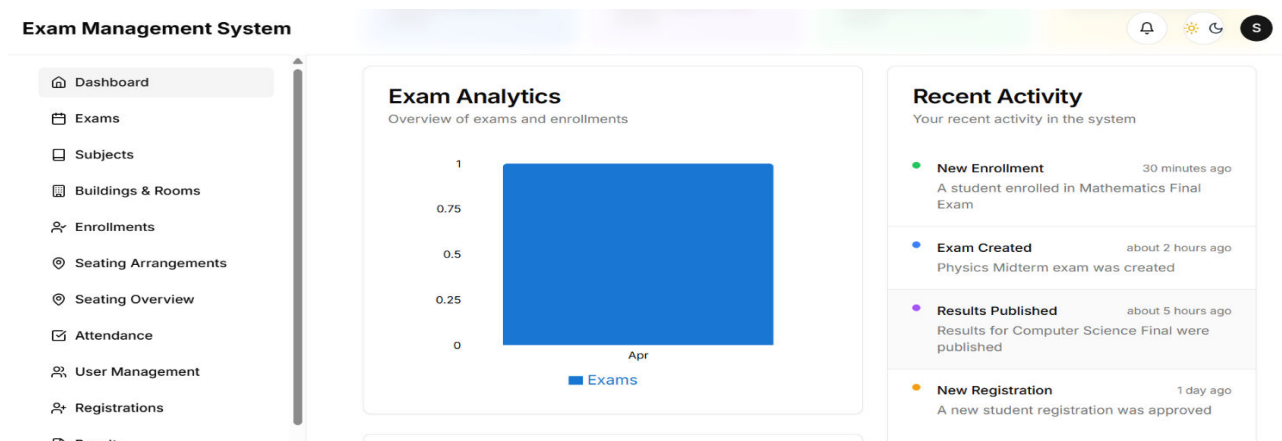


Fig 3- Dashboard

**Create New Exam**  
Add a new examination to the system

Title: ENDSEM

Course Code: 12567

Date: 05/02/2025

Start Time: 03:00 PM

End Time: 05:00 PM

Location: Pune

Subjects:

- ☐ Artificial Intelligence (CO85756)
- ☒ Machine Learning (CO35353)

**Create Exam**

Fig 4-Create New Exam



## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

### Exam Management System



- Dashboard
- Exams
- Subjects
- Buildings & Rooms
- Enrollments
- Seating Arrangements
- Seating Overview
- Attendance
- User Management
- Registrations
- Results

#### Exams

Manage all examinations

[Add Exam](#)

Title	Course Code	Date	Time	Location	Subjects	Invigilator	Action
ENDSEM	907858	May 9th, 2025	10:30 - 12:30	Pune	Machine Learning	Not assigned	<a href="#">Assign Invigilator</a>
ENDSEM	12567	May 2nd, 2025	15:00 - 17:00	Pune	Machine Learning	Not assigned	<a href="#">Assign Invigilator</a>
ENDSEM	12435	April 29th, 2025	12:00 - 14:00	Pune	Artificial Intelligence	Not assigned	<a href="#">Assign Invigilator</a>
ENDSEM	12354	April 19th, 2025	23:22 - 13:22	Pune	None	Not assigned	<a href="#">Assign Invigilator</a>

Fig 5- Exam Details

### Exam Management System



- Dashboard
- Exams
- Subjects
- Buildings & Rooms
- Enrollments
- Seating Arrangements
- Seating Overview
- Attendance
- User Management
- Registrations
- Results

#### Subjects Management

Create and manage subjects for exams

[Add Subject](#)

Name	Code	Description	Actions
Artificial Intelligence	CO85756	—	<a href="#">Edit</a> <a href="#">Delete</a>
Bussiness Intelligence	C746052	—	<a href="#">Edit</a> <a href="#">Delete</a>
Computational Intelligence	C12546	—	<a href="#">Edit</a> <a href="#">Delete</a>
Cyber Security	C45890	—	<a href="#">Edit</a> <a href="#">Delete</a>
Machine Learning	CO35353	—	<a href="#">Edit</a> <a href="#">Delete</a>

<https://qs-final.vercel.app/dashboard/buildings>

Fig 6-Subject Management

### User Management

Add, edit, and manage students and faculty members

[Add User](#)

Name	Email	Role	Created At
Admin User	admin@example.com	ADMIN	4/13/2025
Alice Brown	alice.brown@example.com	STUDENT	4/13/2025
Bob Wilson	bob.wilson@example.com	STUDENT	4/13/2025
Charlie Davis	charlie.davis@example.com	STUDENT	4/13/2025
Gaurav	sablegaurav0966@gmail.com	ADMIN	4/21/2025
John Smith	john.smith@example.com	FACULTY	4/13/2025
Sarah Johnson	sarah.johnson@example.com	FACULTY	4/13/2025
Shejal Shitole	shejalshitole799@gmail.com	ADMIN	4/26/2025
Shilpa Roa	shilparao9189@gmail.com	ADMIN	4/24/2025
Siddhesh	siddheshj0815@gmail.com	ADMIN	4/13/2025

Fig 7-User Management



## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

### Exam Management System



- Dashboard
- Exams
- Subjects
- Buildings & Rooms**
- Enrollments
- Seating Arrangements
- Seating Overview
- Attendance
- User Management
- Registrations
- Results

#### Buildings & Rooms Management

Create and manage buildings and rooms for exams

Buildings				Rooms	
				Add Room	
Building	Room Number	Floor	Capacity	Actions	
ROOMB (B)	2	1	30		
MECH (A)	R1	1	30		
COMP (C)	4	3	30		

### Exam Management System



- Dashboard
- Exams
- Subjects
- Buildings & Rooms**
- Enrollments
- Seating Arrangements
- Seating Overview
- Attendance
- User Management
- Registrations
- Results

#### Buildings & Rooms Management

Create and manage buildings and rooms for exams

Buildings			Rooms	
			Add Building	
Name	Number	Address	Actions	
MECH	A	PUNE		
ROOMB	B	ddv		
COMP	C	PUNE		
ENTC	D	PUNE		

Fig 8-Buildings & Rooms Management

## V. CONCLUSION

The Examination Automation Management System (EAMS) makes handling exams much easier and more reliable for educational institutions. By automating key processes like scheduling, seating arrangements, invigilation duties, hall ticket generation, and result management, the system saves a lot of time and effort. It reduces the chances of errors that usually happen with manual work and helps maintain a smooth and organized examination process. Students, faculty, and administrators all benefit - students get clear exam details, faculty are notified of their duties in advance, and administrators can manage the whole exam system efficiently. Plus, the system improves data security, ensures accuracy, and allows institutions to cut down costs related to manual exam handling.

## VII. ACKNOWLEDGEMENTS

We would like to express our sincere gratitude to Prof. Vikas Gaikwaid, our guide, for his invaluable support, encouragement, and guidance throughout the development of our project, *Examination Automation Management System*. His insights and expertise have been instrumental in helping us complete this work successfully. We are also thankful to the Department of Artificial Intelligence and Data Science at Shree Ramchandra College of Engineering for providing us with the opportunity and resources to work on this project. Finally, we extend our heartfelt thanks to our teammates, friends, and family members for their continuous support, motivation, and cooperation during this journey.



## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

### REFERENCES

- [1] Divya H, Nandhini S., Shobana S. and Dr. M. Sujithra, Examination management system, ISSN: 2320-5407, Msc Data Science, Department of Data Science February 2020 Coimbatore Institute of Technology Coimbatore, January 2021.
- [2] R.Gokilal , Antony Rohan Dass, Examination Hall and Seating Arrangement Application using PHP , Volume 8 Issue No.2, Department of Computer Applications Karpagam College of Engineering, Coimbatore, India, February 2018.
- [3] Vamsi Krishna Yepuri, Gopi Chand Pamu, Naveen Kodali , Pradyumna LV, Examination Management Automation System, Volume: 05 Issue: 04,4 Department of Information Technology, V R Siddhartha Engineering College, Kanuru, Vijayawada, Andhra Pradesh, India, Apr-2018
- [4] K. Oku, R. K. Vaddy, A. Yada, and R. K. Batchu, "Data Engineering Excellence: A Catalyst for Advanced Data Analytics in Modern Organizations," International Journal of Creative Research in Computer Technology and Design, vol. 6, no. 6, pp. 1–10, 2024
- [5] Dinesh Chandewar, Mainak Saha, Pushpraj Deshkar, Pankaj Wankhede, Prof. Suwarna Hajare, Automatic Seating Arrangement of University Exam, Department of Computer Science & Engineering Jhulelal Institute of Technology, Nagpur, India, March 2017





INTERNATIONAL  
STANDARD  
SERIAL  
NUMBER  
INDIA



# INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY

| Mobile No: +91-6381907438 | Whatsapp: +91-6381907438 | [ijmrset@gmail.com](mailto:ijmrset@gmail.com) |

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