



# International Journal of Innovative Research in Science Engineering and Technology (IJIRSET)

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



**Impact Factor: 8.699**

**Volume 14, Issue 4, April 2025**

# Proxy Management System

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**ABSTRACT:** The **Proxy Management System (PMS)** provides an efficient solution to ensure uninterrupted academic sessions when faculty members are unable to conduct their scheduled lectures or laboratory sessions. The system streamlines the process of requesting and managing proxies, thereby maintaining the continuity of educational services.

All faculty members are authenticated on the platform using **single-use access credentials**. When a faculty member is unable to deliver a lecture or lab session, they raise a **proxy request** detailing the reason along with relevant information such as the division or room number.

The request is then forwarded to **higher authorities for approval**, ensuring the legitimacy of the absenteeism claim. Once approved, an available instructor can accept the request and proceed with the lecture. As an incentive, the instructor covering the class receives a **compensation of ₹300**, deducted from the absent faculty member's account.

**KEYWORDS:** Faculty Proxy, Lecture Substitution, Academic Continuity.

## I. INTRODUCTION

The **Proxy Management System (PMS)** is designed to ensure uninterrupted academic schedules by effectively managing faculty absences. In educational institutions, unplanned faculty leaves can disrupt lectures, leading to class cancellations or mass bunking. The proposed system offers an **automated solution** that allows faculty members to raise a request when they are unable to attend a scheduled lecture.

The request is then **verified by higher authorities**, who either approve or reject it based on its authenticity. Once approved, another faculty member can accept the proxy and conduct the class. As an incentive, the substituting faculty receives **₹300 as compensation**, which is deducted from the absent faculty member's account.

The system promotes **accountability and responsibility** through a **minimum balance requirement**, ensuring that faculty members fulfill their teaching duties. By streamlining the proxy substitution process, the system **minimizes academic disruptions**, maintains the quality of education, and ensures **methodical and fair faculty replacements** without affecting the continuity of students' learning.

## II. AIM AND OBJECTIVES

**Aim:** The Proxy Management System (PMS) ensures uninterrupted academic schedules by automating faculty absenteeism management, enabling seamless proxy assignment, approval, and compensation.

**Objectives:** Automate Proxy Requests – Faculty can raise proxy requests when absent.

1. **Approval Mechanism** – Higher authorities verify and approve/reject requests.
2. **Seamless Proxy Assignment** – Available faculty can accept approved proxies.
3. **Incentive-Based Compensation** – ₹300 is transferred from the absent faculty to the proxy-taking faculty.
4. **Authentication & Accountability** – Ensures legitimacy through authentication and a minimum balance requirement.

5. **Real-Time Monitoring** – Tracks requests, approvals, and transactions.
6. **User-Friendly Interface** – Provides an accessible platform for faculty and administrators.
7. **Minimize Administrative Effort** – Reduces manual intervention for efficiency.

### III. METHODOLOGY

**Faculty Authentication & Access** – Every faculty has a separate account with a minimum balance of ₹5000 for responsibility.

**Raising a Proxy Request** – A faculty member raises a request with information (reason, date, time, division, and room number) in case he/she is unable to attend a lecture.

**Approval Procedure** – Senior administrators check and either approve or decline the request considering its legitimacy.

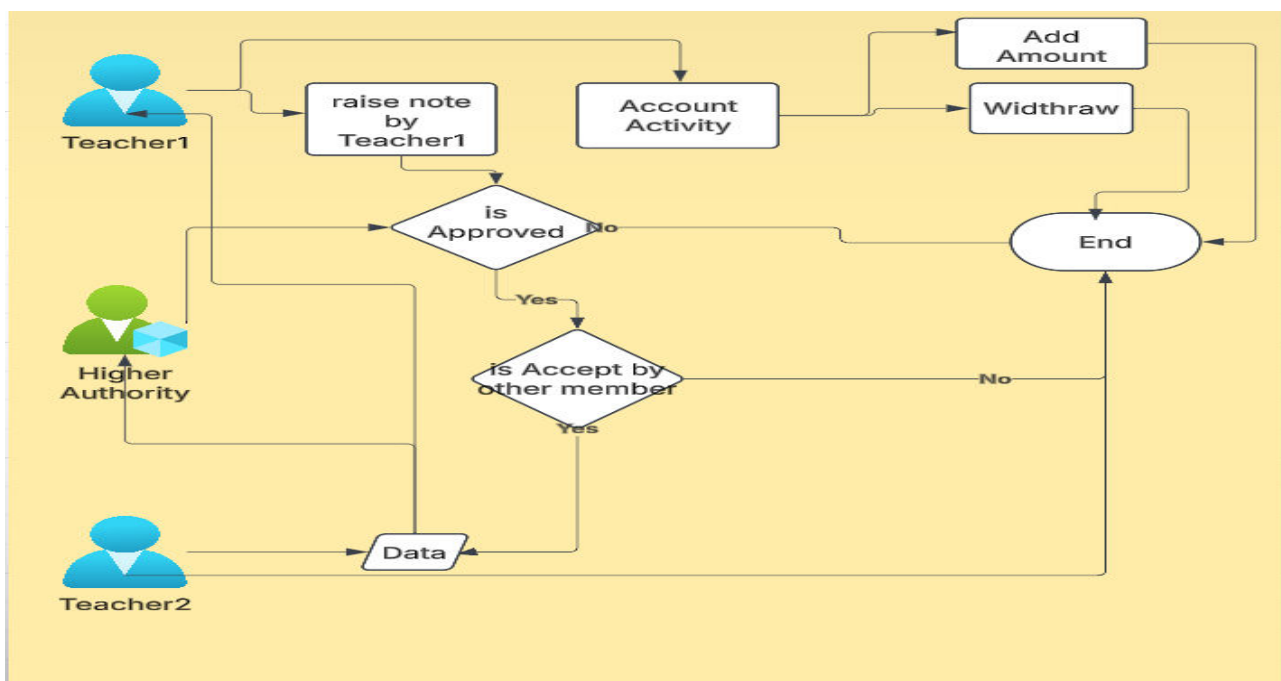
Granting proxy requests allows other members of the faculty to receive and present the lecture.

**Compensation Mechanism** – ₹300 is taken from the absent faculty and transferred to the faculty who delivers the lecture.

**Notifications and Alerts** – Faculty receive instant alerts for approvals of requests, available proxy status, and finance transactions.

**Record Keeping** – The system stores all proxy transactions systematically, hence ensuring transparency and accountability.

**Diagram:**





#### IV. LITERATURE REVIEW

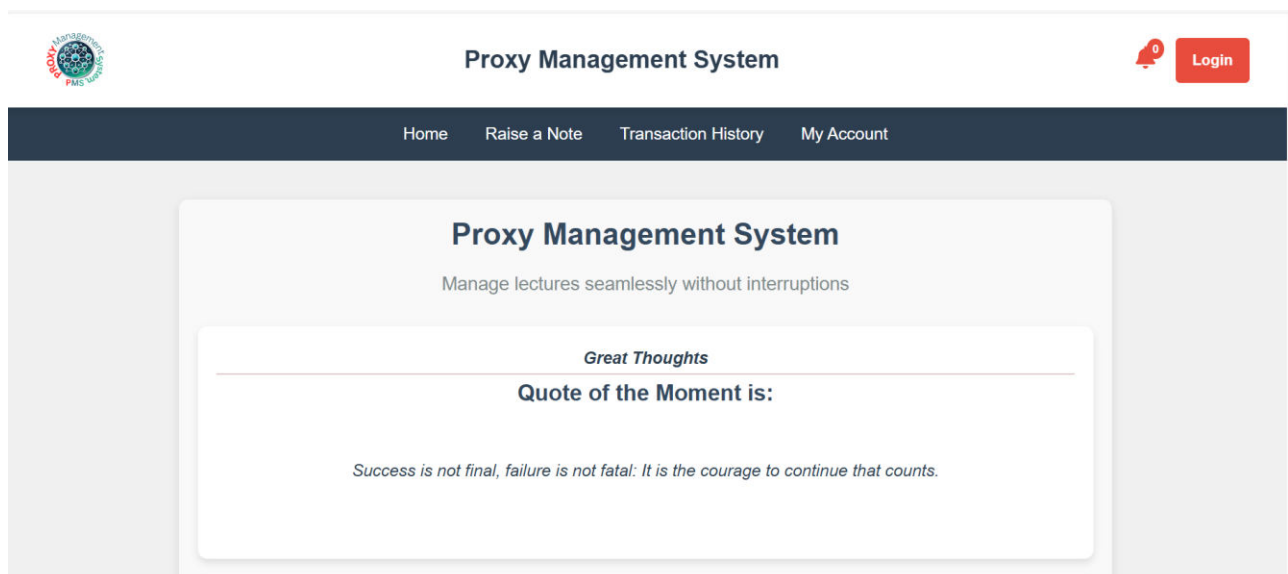
The concept of automated faculty proxy administration was introduced by institutional management systems to enhance the efficiency of academic calendars. Traditionally, faculty members arranged substitutes manually in case of absence, often leading to inconsistencies. The Proxy Management System (PMS) streamlines this process by enabling faculty to send proxy requests, which are verified by higher authorities, ensuring academic continuity. An incentive mechanism was introduced to compensate faculty members for covering lectures, encouraging fair participation. To maintain accountability, authentication and balance management features, similar to secure digital transactions, were incorporated. Automated approval systems further eliminate manual intervention, improving administrative efficiency. Additionally, digital monitoring with authentication-based access control enhances transparency and prevents misuse, while a notification-based communication system facilitates timely responses and collaboration. By integrating automated approvals, financial transaction management, and real-time tracking, the PMS optimizes academic administration, minimizes disruptions, and ensures a seamless and effective lecture substitution process.

#### V. EXPERIMENTAL RESULTS

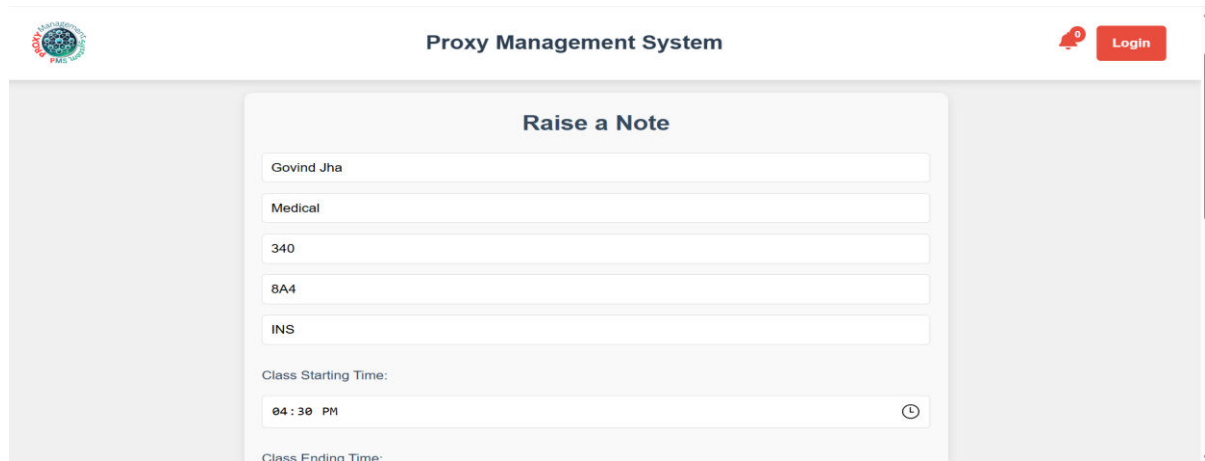
The **Proxy Management System (PMS)** was tested in a simulated academic environment, demonstrating its efficiency in handling faculty absenteeism.

- **Faculty Authentication & Proxy Request:** Faculty successfully logged in and raised proxy requests with necessary details.
- **Approval Process:** Higher authorities reviewed and approved valid requests while rejecting invalid ones.
- **Proxy Acceptance:** Approved requests were visible to all faculty members, ensuring seamless substitution.
- **Compensation Mechanism:** ₹300 was deducted from the absent faculty's account and credited to the substitute faculty.
- **Notifications & Record Maintenance:** Real-time notifications were triggered, and all transactions were logged for transparency.

1. home page

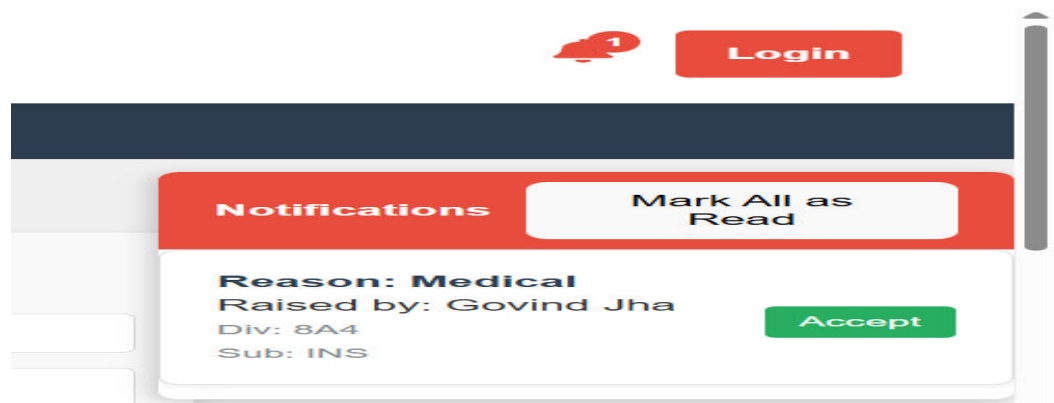


2. Raise Note



The screenshot shows the 'Proxy Management System' interface. At the top, there is a 'Login' button and a notification icon. The main section is titled 'Raise a Note'. It contains several input fields: 'Govind Jha' (Name), 'Medical' (Reason), '340' (Class Room No), '8A4' (Division), and 'INS' (Subject Name). Below these is a 'Class Starting Time' field set to '04 : 30 PM' with a clock icon. At the bottom, there is a 'Class Ending Time' label.

3. see notifications and accept



The screenshot shows the 'Notifications' section of the Proxy Management System. It features a 'Login' button and a notification icon with a red dot. Below the header, there is a 'Mark All as Read' button. The main notification card displays: 'Reason: Medical', 'Raised by: Govind Jha', 'Div: 8A4', and 'Sub: INS'. An 'Accept' button is located at the bottom right of the notification card.

**Note Details**

**Name:** Govind Jha

**Reason:** Medical

**Class Room No:** 340

**Division:** 8A4

**Subject Name:** INS

**Start Time:** Wed Mar 26 2025 16:32:00 GMT+0530 (India Standard Time)

**End Time:** Wed Mar 26 2025 17:32:00 GMT+0530 (India Standard Time)

**Raised At:** 26/3/2025, 4:30:55 pm

Close

Print

## VI. CONCLUSION

The **Proxy Management System (PMS)** effectively addresses the challenges of faculty absenteeism by enabling streamlined communication and efficient class coverage. By automating the **approval and compensation processes**, the system minimizes administrative burdens while ensuring accountability.

The **real-time data tracking** and **user-friendly interface** enhance the teaching experience for both faculty and students. Successful implementation of PMS leads to improved class attendance and fosters a more collaborative academic environment. Ultimately, this project contributes to the broader objective of ensuring **continuous instruction and training** in educational institutions.

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