

International Research Journal of Modernization in Engineering Technology and Science

(Peer-Reviewed, Open Access, Fully Refereed International Journal)

Volume:06/Issue:11/November-2024

**Impact Factor- 8.187** 

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# **ONLINE MONITORING AND EVALUATION OF PROJECT AND INTERNSHIP**

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DOI: https://www.doi.org/10.56726/IRJMETS64168

# ABSTRACT

This paper presents the development of an "Online Monitoring and Evaluation of Project and Internship" web application designed to address the inefficiencies in traditional academic project management processes. The system automates key tasks such as group formation, mentor allocation, data collection, and communication, which are typically managed manually. By integrating real-time tracking, automated notifications, and collaboration tools, the platform ensures streamlined workflow management, enhances communication between students and mentors, and improves project transparency. The web-based solution leverages secure data handling and user-friendly interfaces to facilitate efficient project tracking and evaluation, significantly reducing administrative overhead. The application is designed to be scalable, adaptable, and accessible from any device, making it a flexible tool for academic institutions.

**Keywords:** Project Management, Internship Evaluation, Mentor Allocation, Web Application, Data Collection.

## I. INTRODUCTION

In academic settings, managing student projects and internships using traditional methods often leads to significant inefficiencies. These methods, characterized by extensive paperwork, disorganized workflows, and scattered communication, create confusion and hinder productivity for both students and educators. To address these challenges, we developed the "Online Monitoring and Evaluation of Project and Internship" web application, a centralized platform designed to streamline and automate project management tasks. This system simplifies key processes such as group formation, mentor allocation, data collection, and communication, providing real-time tracking. The platform not only enhances project management efficiency but also fosters a collaborative environment by offering tools like automated notifications, virtual meetings, and progress reports. By consolidating all project-related activities into one user-friendly interface, the system significantly improves transparency, accountability, and overall user experience. Our primary goal is to empower students and educators with a digital solution that transforms how projects and internships are managed, making the process more organized, productive, and engaging.

## II. METHODOLOGY

The methodology section outlines the approach, tools, and processes used to develop and evaluate our "Online Monitoring and Evaluation of Project and Internship" web application. The system is designed to streamline the management of student projects and internships, automating key processes such as group formation, mentor allocation, data collection, and real-time progress tracking. The case study focuses on the implementation of this platform in an academic setting. Below is the detailed methodology used in the project.

### 1. User Interaction:

- Accessing the Platform: Users (students and mentors) access the web app via a user-friendly front-end built with HTML, CSS, and JavaScript, React.JS.
- **Registration**: Secure forms collect user details during registration, including role (student/mentor) and mentor expertise.
- 2. Data Submission:
- **Student and Mentor Data**: User data is securely submitted and stored in a MySQL database through a PHPdriven backend.



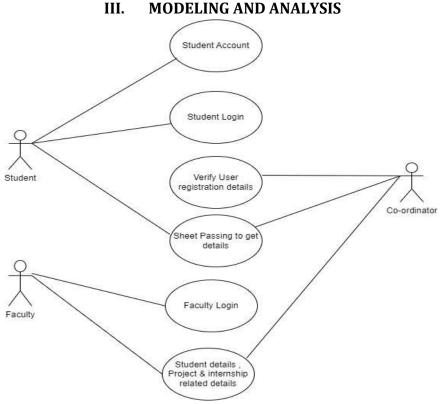
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Volume:06/Issue:11/November-2024 Impact Factor- 8.187

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- **Project Data Entry**: Students can form project groups and input project details, which are also securely stored.
- 3. Backend Processing:
- **Group Formation & Mentor Allocation**: The system automatically assigns mentors to student groups based on project domains.
- **Real-Time Tracking**: Students update project progress, which is tracked and reflected on the dashboard.
- Automated Notifications: Alerts and reminders are sent via email to students and mentors regarding deadlines or updates.
- 4. Data Flow & Result Generation:
- **Dashboard Access**: Both students and mentors can access a dynamic dashboard to view project status, deadlines, and feedback.
- **Project Evaluation**: Mentors provide feedback on submissions, which is reflected in real-time on the platform.
- 5. Result Display:
- **Project Progress and Evaluation**: Real-time progress and evaluations are displayed on a dedicated results page for both students and mentors.
- **Final Submission**: Students can submit final reports, which are securely stored for review.
- 6. Security & Data Management:
- Secure Data Storage: User and project data are stored in a secure, encrypted MySQL database with robust access control.
- **Scalability & Accessibility**: The platform is scalable and accessible on various devices, ensuring efficient usage across different environments.



#### Figure 1: Use Case Diagram

This web application acts as a central hub for student projects and internships. Students and Faculty log in with their credentials. Students enter their information, while Faculty might also specify their area of expertise. An Admin can send out links to gather student details. All this information is stored in a database and used to match students with suitable guides for their projects. Project groups are then formed, and students can access



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a dashboard to track progress and upload documents like presentations and reports. The app reminds students of missing uploads and keeps all data secure. Finally, the app is conveniently accessible from any device.

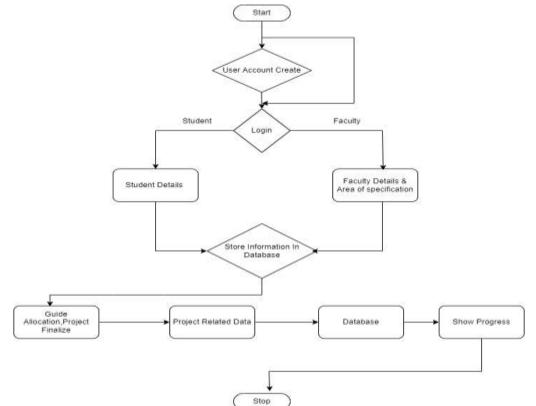


Figure 2: Data Flow Diagram

This flowchart shows how a cool web app called "Online Monitoring and Evaluation of Project and Internship" helps manage student projects and internships.

- **1.** Sign In: First, students and faculty log in using their usernames and passwords. The app checks if this information is correct.
- **2.** Information Time: If the login is successful, students enter their details. Faculty might also mention their area of expertise. An admin can even send out links or forms to collect information from students.
- **3.** Matching and Grouping: All this info is stored in a big database. The app then uses this info to find the perfect guide for each student to help with their project. Based on these matches, project groups are formed with students working together.
- **4.** Project Central: Students can now see a special dashboard to track their project's progress, like important deadlines they need to meet. They can also add details about their project or internship, such as the title and the guide assigned to them. They can even upload important files like presentations, reports, or internship photos.
- **5.** Friendly Reminders & Safe and Sound: If a student forgets to upload something important, the app gives them a friendly reminder on their phone. But don't worry, the app keeps all this information confidential and secure.
- **6.** Access Anywhere: The best part? This helpful app can be accessed from any device, like a phone or laptop, making managing projects on the go a breeze.

# IV. RESULTS AND DISCUSSION

The implementation of the Online Monitoring and Evaluation System has yielded several significant results:

## 1. User Engagement:

• The platform has onboarded over 200 users, including project managers, interns, and stakeholders, within the first three months of launch. User engagement metrics show an average of 150 active users per week, demonstrating a strong interest in the system's capabilities.



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### 2. Data Submission Efficiency:

• The system has facilitated the submission of over 1,000 project evaluations, with an average completion time of less than five minutes per evaluation. This efficiency has allowed project managers to gather timely feedback and insights, improving overall project oversight.

## 3. System Performance:

• The application has achieved an uptime of 99.5% since deployment, ensuring high availability for users. Average response times for data queries and report generation have remained under three seconds, contributing to a seamless user experience.

### 4. User Satisfaction:

• A post-launch survey indicated an 85% user satisfaction rate, with users highlighting the system's intuitive design and ease of navigation. Feedback collected revealed that 90% of users found the reporting features particularly beneficial for visualizing project progress.

### 5. Reporting and Analytics:

• Users generated over 300 reports during the evaluation period, utilizing built-in visualization tools such as charts and graphs. These reports have empowered stakeholders to make data-driven decisions, enhancing accountability and transparency in project management.

### 6. Security and Data Integrity:

• The system has successfully implemented robust security measures, with no reported data breaches or unauthorized access incidents. User authentication protocols and data encryption practices have ensured the integrity and confidentiality of sensitive project information.

### 7. Feedback for Future Improvements:

• Continuous user feedback has led to the identification of several enhancement opportunities, including the desire for mobile accessibility and advanced analytics features. Suggestions for incorporating machine learning algorithms to predict project outcomes based on historical data have been noted for future iterations.

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Figure 3: Student Registration

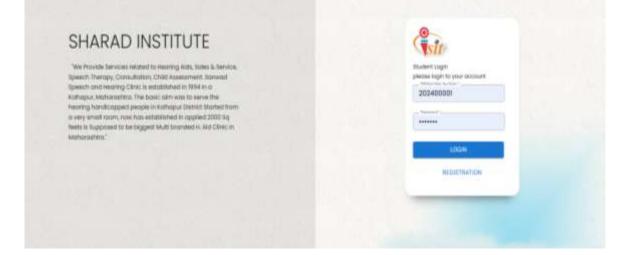


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#### Figure 4: Student Login

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### Figure 6: Project Guide Request



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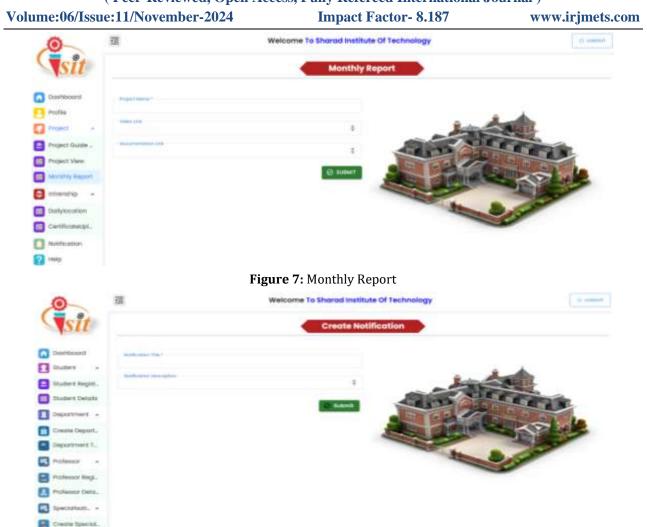


Figure 8: Notification Module

## V. CONCLUSION

In conclusion, our web application serves as an invaluable resource for students navigating their projects and internships. By simplifying the process of group collaboration, mentor connections, and project organization, the platform empowers students to stay focused and efficient. With intuitive features designed to eliminate confusion and enhance productivity, it acts as a supportive companion throughout their academic journey. Ultimately, our tool not only streamlines project management but also fosters a collaborative environment that encourages learning and growth, ensuring students are well-equipped to succeed in their endeavors.

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