

A Study Based on Project Activity Monitoring by the Lecturers Using Android

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Abstract- The Project Activity Monitoring Using Android Application is a comprehensive system designed to facilitate effective monitoring of students' project progress by lecturers under the supervision of the Head of Department (HOD). The Android application provides a convenient and efficient platform for tracking and evaluating the various activities and milestones associated with students' projects. In educational institutions, student projects play a vital role in fostering experiential learning and skill development. However, monitoring and assessing project progress can be challenging, especially when multiple projects are ongoing simultaneously. This system aims to address these challenges by leveraging the capabilities of Android technology to streamline the monitoring process. The system is built as an Android application, allowing both lecturers and the HOD to access project-related information and progress updates conveniently using their mobile devices. The application facilitates project registration, where students can submit details such as project title, objectives, team members, and proposed timelines. Lecturers can monitor and track various activities associated with each project, including milestones, deliverables, and deadlines. They can update the project status, record observations, and provide feedback.

Index Terms- Project activity monitoring, mobile application, students, guide, HOD.

I. INTRODUCTION

The effective monitoring of students' project progress is essential for educational institutions to ensure the successful completion of projects and promote students' skill development. However, managing and tracking multiple projects simultaneously can be a daunting task for lecturers and the Head of Department (HOD). To address these challenges, the Project Activity Monitoring Using Android Application is introduced as a comprehensive solution to monitor and evaluate students' project progress efficiently. The Android application serves as a user-friendly platform that enables lecturers and the HOD to track various activities, milestones, and deliverables associated with students' projects. By leveraging the capabilities of mobile technology, this system streamlines the project monitoring process and enhances collaboration between students and educators.

The primary objective of the Project Activity Monitoring System is to provide a centralized platform for lecturers and the HOD to oversee and assess project progress effectively. It simplifies the communication process, facilitates timely feedback, and enables timely interventions to ensure project success. The system's key features include project registration, activity tracking, progress visualization, notifications and reminders, file management, feedback and evaluation, a communication platform, and data analytics. Lecturers can register projects, monitor activities, update project status, and provide feedback to students. The HOD gains a comprehensive overview of multiple projects, allowing for strategic guidance and resource allocation. The system also incorporates a file management feature, enabling students to upload project-related documents for review. Lecturers and the HOD can provide feedback, evaluate project deliverables, and foster continuous improvement. By implementing the Project Activity Monitoring System using an Android application, educational institutions can effectively monitor and evaluate students' project progress. Lecturers can provide timely guidance, track milestones, and assess the overall development of each project. The HOD gains comprehensive visibility into the progress of multiple projects, enabling them to make informed decisions, allocate resources, and provide strategic guidance to students and lecturers.

The communication platform within the application promotes seamless interaction between students, lecturers, and the HOD. This allows for clarification of doubts, discussion of project-related matters, and efficient coordination throughout the project lifecycle. The Project Activity Monitoring Using Android Application offers a comprehensive solution to monitor students' project progress efficiently. By leveraging the capabilities of mobile technology, this system enables lecturers and the HOD to streamline project monitoring, foster effective communication, and provide timely feedback. Ultimately, the system enhances the overall management and success of student projects in educational institutions.

II. LITERATURE REVIEW

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Aid organizations must adhere to strict project reporting guidelines in order to please the diverse variety of stakeholders. The reporting process is thought to be informed by project oversight and assessment (M&E) information systems (IS), which are typically necessary for funding. Although most of the literature encourages the use of the logical framework approach (LFA) for M&E, it has proven ineffective. The LFA is frequently utilized throughout the assistance business for project planning and appraisal. In order to make the traditional LFA for M&E more useful outside of the design process, this article examines the main drawbacks of the LFA matrix and suggests an expansion (the "logframe").

Öncü Hazır et al

The difficulties, methods, and mathematical frameworks related to project control systems are reviewed in this work along with potential future research directions. It concentrated on research in Earned Value Analysis (EVA), methodology for optimization, and guidance system building that will aid project administrators in preparing and overseeing in challenging undertaking scenarios. The analysis suggests that additional study is necessary to create statistical frameworks that use EVA measures to predict prediction.. Additionally, it recommends that the Data Security Standard be model-driven, serve as early alert systems, and connect with specialized task-management technology.

Lee H. MacDonald

"To watch or check on" is what supervising denotes. From a resource and legal standpoint, monitoring is a crucial element in resource management (5, G, 7, 10). In example, monitoring is necessary to assess how management decisions affect a particular resource; justify the expenditure of funds for pollution control, alternative resource management practices, and restoring degraded resources; optimize the allocation of funds among management alternatives; increase our understanding of the systems being monitored, particularly their temporal and spatial variability; and document compliance with regulatory requirements.

III.METHODOLOGY

When it comes to project activity monitoring, there are various methodologies and techniques that can be employed based on the specific project requirements and available resources. Here is a general methodology that can be followed for project activity monitoring:

Define Monitoring Objectives: Clearly define the objectives and goals of your project activity monitoring efforts. Identify what aspects of the project you want to monitor, such as progress, performance, resource utilization, risk identification, etc.

Identify Key Performance Indicators (KPIs): Determine the key metrics and indicators that will be used to measure the progress and performance of the project. These KPIs should be aligned with the project goals and objectives. Examples of KPIs include task completion rate, cost variance, schedule variance, quality metrics, etc.

Establish Baselines: Establish baselines for the identified KPIs at the beginning of the project. Baselines provide a reference point against which the actual project performance can be measured. It helps in identifying deviations and variances from the planned targets.

Select Monitoring Tools and Technologies: Identify and select the appropriate monitoring tools and technologies based on the project requirements. This could include project management software, task management tools, collaboration platforms, data analytics tools, and visualization dashboards.

Data Collection and Recording: Implement a process for collecting and recording relevant project data. This can involve regular data updates from team members, automated data feeds from project management software, manual data entry, or integration with other systems. Ensure that the collected data is accurate, reliable, and consistent.

Real-time Tracking: Implement a system for real-time tracking of project activities. This could involve updating task progress, tracking resource allocation, monitoring budget and expenses, and capturing other relevant project data. Leverage project management tools and software to facilitate real-time tracking and visibility.

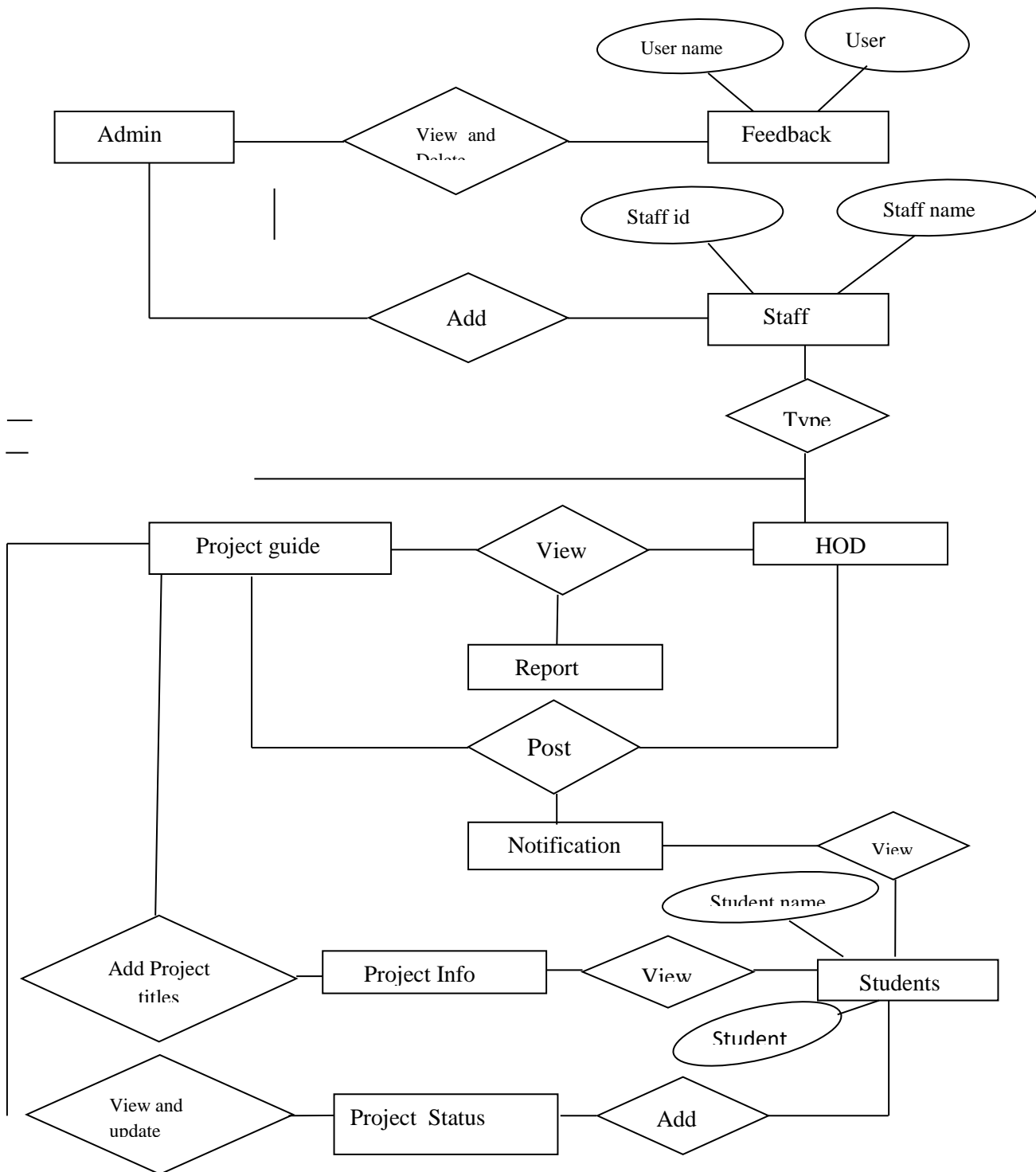
Data Analysis and Reporting: Analyze the collected data to derive meaningful insights and trends. Use data analytics techniques to identify patterns, risks, and opportunities. Generate regular reports and visualizations to communicate project progress and performance to stakeholders. The reports should highlight the key metrics, variances, and any critical issues that require attention.

Risk and Issue Management: Monitor and track project risks and issues as part of the project activity monitoring process. Implement a system to identify, assess, and mitigate risks and resolve issues in a timely manner. Regularly review the risk and issue logs to ensure proactive management.

Continuous Improvement: Continuously evaluate the effectiveness of the monitoring process and make necessary improvements. Solicit feedback from project stakeholders and incorporate lessons learned into future monitoring activities. Adapt the monitoring approach as the project progresses and requirements evolve.

It is important to note that the methodology outlined above is a general framework, and the specific implementation may vary based on the project's nature, complexity, and available resources. Customizing the methodology to fit your project's unique requirements is essential for effective project activity monitoring.

IV.FLOWCHART ON PROJECT ACTIVITY MONITORING USING ANDROID



V.CONCLUSION

The Project Activity Monitoring System using an Android application offers a powerful solution for monitoring and managing students' project progress in educational institutions. By utilizing mobile technology, the system simplifies the monitoring process and enhances collaboration between students, lecturers, and the Head of Department (HOD). The main goal the project is to conduct easy and smooth project development and report writing using the proposed application. Presently project activity is difficult process because of improper communication between students group and guide. Using our application the communication gap can be filled in a very formal way without disturbing anyone.

The proposed application can work very efficiently than any social media applications because it might include informal phase of communication. But with this application colleges can carry their project activity with more efficient way.

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6. "Project Management Body of Knowledge (PMBOK Guide)" by Project Management Institute (PMI) - This guide is a widely recognized standard for project management and includes a section on monitoring project activities.
7. "Effective Project Management: Traditional, Agile, Extreme" by Robert K. Wysocki - This book covers various project management methodologies and provides insights into monitoring project activities throughout the project lifecycle.
8. "Project Monitoring and Evaluation" by Larry Michaelson and Mark P. Caspe - This book focuses specifically on project monitoring and evaluation techniques, providing practical guidance on monitoring project activities effectively.
9. "Project Management Metrics, KPIs, and Dashboards: A Guide to Measuring and Monitoring Project Performance" by Harold R. Kerzner - This book offers a comprehensive approach to project monitoring by discussing various metrics, key performance indicators (KPIs), and dashboards to track project activities.
10. "The Project Management Scorecard: Measuring the Success of Project Management Solutions" by Jack J. Phillips and Timothy W. Bothell - This book introduces the concept of using a scorecard to monitor project activities and measure project success.
11. "Earned Value Project Management" by Quentin W. Fleming and Joel M. Koppelman - This book focuses on the concept of earned value management (EVM) and how it can be used to monitor project activities and measure project performance.
12. These references should provide you with a good starting point for understanding and implementing effective project activity monitoring techniques.