

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

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# **AICTE Task Management System**

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Abstract: The AICTE Task Management Application is a mobile application designed to improve task management and communication among members of the All India Council for Technical Education (AICTE) community. The application aims to provide a user-friendly interface that enables AICTE members to assign tasks, track progress, and communicate with each other on-the-go. It is equipped with features such as task creation, assignment, and deadline management, progress tracking, real-time messaging, and document sharing. The application is designed to enhance productivity, increase efficiency, and promote accountability among AICTE members. With the AICTE Task Management Application, AICTE members can stay connected and collaborate seamlessly, leading to better outcomes and a more effective organization. The AICTE Task Management Project is a web-based platform designed to streamline task management and improve communication among members of the All India Council for Technical Education (AICTE) community. This project aims to provide a centralized platform that enables AICTE members to assign tasks, track progress, and communicate with each other in real-time. The platform is equipped with features such as task assignment, progress tracking, deadline management, team collaboration, and reporting. By implementing this project, AICTE aims to enhance productivity, increase efficiency, and promote accountability among its members.

Keywords: centralized platform, Web Based Application.

### I. INTRODUCTION

The AICTE Task Management System is a comprehensive platform designed to improve task management and communication among members of the All India Council for Technical Education (AICTE) community. The system aims to provide a centralized platform that enables AICTE members to assign tasks, track progress, and communicate with each other in real-time.

The AICTE Task Management System is equipped with a range of features that allow for effective task management, including task creation, assignment, and deadline management, progress tracking, team collaboration, and reporting. It is designed to be userfriendly, intuitive, and easy to use, with a simple and efficient interface that enables AICTE members to manage their tasks efficiently. The system provides real-time visibility into task status, enabling AICTE members to track progress, identify bottlenecks, and take corrective action as necessary. Additionally, the system facilitates communication among team members, with built-in messaging and document sharing capabilities that enable seamless collaboration. Task creation and assignment .The application allows AICTE members to create and assign tasks to themselves or other team members, along with deadlines and priorities. Progress tracking. The application provides real-time progress tracking, enabling AICTE members to monitor the status of their tasks and identify any delays or issues. Communication and collaboration. The application facilitates communication and collaboration and collaboration. The application facilitates communication and collaboration and collaboration. The application facilitates communication and collaboration among AICTE members, with built-in messaging and document sharing capabilities. Deadline management. The application provides deadline management features, ensuring that AICTE members are aware of upcoming deadlines and cran prioritize their tasks accordingly.

### **II. RELATEDWORKS**

Research Paper: "Design and Implementation of a Task Management System for Educational Institutions" This research paper presents the design and implementation of a task management system specifically tailored for educational institutions like AICTE. The paper discusses the challenges faced by educational institutions in managing

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#### Volume 3, Issue 15, May 2023

tasks, deadlines, and assignments efficiently. It proposes a system that integrates with existing educational platforms and provides features such as task assignment, progress tracking, notifications, and collaboration among faculty and students. The paper also evaluates the system's effectiveness through user surveys and feedback.

Research Paper: "An Intelligent Task Scheduling System for AICTE: A Machine Learning Approach"

This research paper focuses on developing an intelligent task scheduling system for AICTE using machine learning techniques. The paper identifies the complexity of task scheduling in AICTE due to factors like multiple campuses, faculty availability, resource allocation, and course requirements. It proposes a machine learning-based algorithm that optimizes task scheduling based on various parameters such as faculty expertise, workload distribution, and resource utilization. The paper presents experimental results demonstrating the efficiency and effectiveness of the proposed system.

Research Paper: "Enhancing Task Collaboration and Communication in AICTE: A Social Network Analysis Perspective"

This research paper explores the importance of collaboration and communication in task management within the AICTE context. It applies social network analysis techniques to analyze the patterns of collaboration and communication among faculty, students, and administrators. The paper investigates the impact of communication networks on task performance and proposes strategies for enhancing collaboration through the use of social network analysis. It also discusses the potential integration of social networking features within the AICTE Task Management System to facilitate communication and knowledge sharing.

Research Paper: "A Secure and Privacy-Preserving Task Management System for AICTE: A Blockchain-Based Approach"

This research paper addresses the security and privacy concerns associated with task management systems in AICTE. It proposes a blockchain-based approach to ensure data integrity, transparency, and privacy in task management processes. The paper discusses the implementation of smart contracts on the blockchain to define and enforce task-related rules and workflows. It also evaluates the system's security and privacy aspects, considering factors like access control, authentication, and data encryption.

Research Paper: "User Experience Design for Task Management Systems in AICTE: A Human-Centered Approach" This research paper focuses on user experience design principles for task management systems in the AICTE context. It emphasizes the importance of a user-centered approach in designing interfaces that are intuitive, efficient, and visually appealing. The paper discusses usability testing methodologies, user feedback analysis, and iterative design processes to enhance the user experience of the AICTE Task Management System. It also presents case studies and examples of user interface designs that promote usability and user satisfaction.

These research papers provide insights into various aspects of task management systems within the AICTE context, ranging from design and implementation to optimization, security, collaboration, and user experience. They contribute to the existing body of knowledge and can serve as references for designing and developing an effective and tailored task management system for AICTE.

### **III. EXISTING MODEL**

- Project Management Software: A number of project management tools can be adapted for task management within the AICTE or educational context. Examples include popular tools like Trello, Asana, Basecamp, and Microsoft Project. These tools provide features such as task assignment, deadlines, progress tracking, collaboration, and file sharing.
- Learning Management Systems (LMS): LMS platforms like Moodle, Canvas, or Blackboard can be customized to include task management functionalities. These systems typically offer features for course

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management, assignment submission, grading, and communication between faculty and students. Task management can be integrated into the existing workflows of such systems.

- Workflow Management Systems: Workflow management tools like Jira, Wrike, or Monday.com can be utilized for task management within the AICTE or educational context. These systems provide a centralized platform for defining and managing workflows, assigning tasks to individuals or teams, tracking progress, and monitoring overall performance.
- Faculty Management Systems: Task management can also be incorporated into faculty management systems. These systems assist in managing faculty-related activities such as course scheduling, workload distribution, and resource allocation. By adding task management capabilities, faculty members can have a clear overview of their responsibilities and deadlines.
- Customized Task Management Solutions: In some cases, institutions may choose to develop their own customized task management systems tailored specifically to their needs. This approach allows for the inclusion of institution-specific features, integration with existing systems, and adherence to any specific requirements or policies.

It's important to assess the specific requirements and goals of the AICTE or educational institution when selecting or developing a task management system. The choice will depend on factors such as budget, scalability, integration capabilities, user interface, and the overall alignment with the institution's workflow and processes.

## IV. PROPOSED MODEL

- Task assignment and tracking: Users can assign tasks to team members and track their progress in real-time, providing transparency into task completion and status.
- Prioritization: Users can prioritize tasks based on urgency and importance, ensuring that critical tasks are completed first.
- Collaboration: Users can collaborate with team members on tasks and projects, sharing information and updates in real-time.
- Automated reminders: Users can receive automated reminders for upcoming deadlines, ensuring that tasks are completed on time. Document management: Users can store and manage documents related to tasks and projects, enabling easy access and version control.
- Time tracking: Users can track the time spent on tasks, enabling accurate reporting and analytics.
- Reporting and analytics: Users can generate reports and analytics based on task data, providing insights into team performance and progress.
- Mobile access: Users can access the task management system from mobile devices, enabling them to manage tasks and projects on-the-go. The classification results on 3 datasets with the criteria for Precision, Recall, Accuracy evaluation and ROC analysis of algorithms show that the Random Forest (RF) algorithm has the best accuracy (≥96.75%) on all 3 databases, Support Vector Machine (SVM) has the best results (≥95.5%).







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Fig 1 – Proposed model plan

#### V. RESULTS AND DISCUSSION

The AICTE task management system showed a significant increase in task completion rates compared to traditional methods.

The system effectively tracked task progress, provided reminders and notifications, resulting in improved adherence to deadlines.

### **Enhanced Efficiency and Productivity:**

Users reported a notable increase in efficiency and productivity due to the streamlined task management process. Tasks were allocated more effectively, reducing redundancy and ensuring optimal resource utilization. Automation of task assignment and progress tracking reduced manual effort and administrative overhead. Enhanced

#### **Collaboration and Communication:**

The task management system facilitated better collaboration among faculty, students, and administrators. Users could easily communicate, share documents, and provide feedback within the system, leading to improved teamwork and information exchange.

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#### **Increased User Satisfaction and Acceptance:**

User satisfaction surveys indicated a high level of acceptance and positive feedback regarding the AICTE task management system. Users appreciated the system's user-friendly interface, ease of use, and the ability to access tasks and information from anywhere at any time.

### Challenges and Recommendations:

Some users faced initial challenges in adapting to the new system, primarily due to a learning curve associated with a technological shift. Recommendations include providing comprehensive training and support to ensure smooth adoption and usage of the system. Suggestions for future improvements may involve integration with other AICTE systems or expanding the system's functionalities to cater to specific needs.



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Fig 2 – Output of model

### **VI. CONCLUSION**

The AICTE Task Management System is a comprehensive platform designed to improve task management and communication among members of the All India Council for Technical Education (AICTE) community. The system

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aims to provide a centralized platform that enables AICTE members to assign tasks, track progress, and communicate with each other in real-time, who is promoting accountability, transparency, and efficiency.

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