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No Due Management System

Veereswarapu Lochan[1], Kayala Sai Durga Praveen[2], Jagathani Bhanu Prakash[3], Palivelu Sundar Das[4], Veluvali Sai Praneeth[5], P Naga Raju[6]

[1, 2, 3, 4, 5]*Department of Computer Science and Engineering, Ideal Institute Of Technology, Kakinada, Andhrapradesh, India*

[6]*Associate professor, Department of Computer Science and Engineering, Ideal Institute Of Technology, Kakinada ,Andhrapradesh, India*

Abstract: ***This paper discusses the Students must get their no dues cleared from each department either at the end of their degree or whenever they wish to leave the college, which is a very tedious and painstaking task.. Each student must visit every department to have their no dues form signed by the respective authorities to ensure any outstanding dues are cleared. To streamline this process, we are developing a no dues management system that will generate a computerized no dues form indicating the current dues status. The primary goal of this system is to minimize the time typically spent on managing dues records. It features distinct sections for tracking information about authorities, students, and dues. In essence, the system aims to achieve the following objectives.***

1) ***A simple database is maintained.***
2) ***The system operations are easy for the operator to perform..***
3) ***The user interfaces are user-friendly and attractive, allowing operators to quickly become accustomed to the system.***

I. INTRODUCTION

The "No Due Management" system is a cutting-edge solution designed to revolutionize the management of academic records and administrative processes in educational institutions. Catering to the diverse needs of students, faculty, and administrative personnel, our platform offers features that enhance efficiency and transparency. Students can easily access and view their marks through a user-friendly interface, fostering accountability and empowerment. Faculty members benefit from advanced functionalities for viewing and modifying marks, ensuring grading accuracy and reliability. HODs and principals wield powerful tools to manage e-signatures for semester and final no dues, simplifying administrative burdens and promoting accountability by ensuring compliance with institutional regulations.

With intuitive interfaces, customizable workflows, and robust reporting capabilities, our system transforms traditional administrative practices, empowering institutions to operate more efficiently and effectively. Join us in embracing innovation for a seamless, transparent, and efficient academic future.

A. *Existing System*

In the earlier days students may need to visit each department to get their no dues form signed by the department's authorities. The administrator then checks the student's details, such as any fee balance, and signs the no dues form. This involved maintaining paper records or spreadsheets to track various types of dues such as library fines, borrowings in library, and tuition payments. Students received paper notices regarding their outstanding dues, and to clear their dues, they had to physically visit different campus departments to settle balances and obtain clearance signatures. Each department manually verified payments and clearance status, leading to delays in the clearance process. Access to dues information was limited to physical records, resulting in inefficiencies and potential errors in tracking and recording dues. Overall, the manual management of dues in colleges was labor-intensive, time-consuming, and prone to errors, highlighting the need for automated systems to streamline the process.

B. *Disadvantages*

1) Time consuming process.
2) Increased administrative burden.
3) Reduced accountability.
4) Manual errors.
5) Inefficient reporting and analysis

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II. LITERATURE REVIEW

The evolution of No Dues Management Systems reflects a significant transformation from traditional, paper-based methods to advanced digital platforms, enhancing efficiency and communication within organizations. Initially, institutions relied on handwritten ledgers, which were fragmented and inefficient. As organizations grew, standardized forms were introduced, yet reliance on physical paperwork persisted, creating bottlenecks. The advent of early computer systems brought limited automation with significant constraints, such as minimal processing power and rudimentary connectivity, but laid the groundwork for future advancements. The shift to online systems marked a substantial leap forward, introducing features like automated notifications, centralized data storage, and integration with other databases. Modern online systems now offer sophisticated interfaces, real-time analytics, and mobile access, revolutionizing dues management with enhanced accessibility and scalability. Additionally, improved communication channels provided by these systems have streamlined the clearance process, ensuring timely and clear instructions for students and facilitating seamless updates from administrative staff, thus fostering greater transparency and understanding among all endusers.

III. SYSTEM REQUIREMENT

A. *Hardware Requirements*

1) CPU: i3
2) Ram: 16GB
3) Storage: 20GB

B. *Software Requirements*

1) PC or a laptop with basic drivers installed.
2) Operating system: Windows 7,8
3) Database: MySQL Server
4) Browser: Mozilla, Chrome, Opera
5) Web Server: Apache
6) Scripting Language Enable: JavaScript

IV. IMPLEMENTATION

A. *Installing XAMPP*

XAMPP stands for Cross-Platform (X), Apache (A), MySQL (M), PHP (P) and Perl (P). It isa simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing purposes. Everything required to set up a web server, including the server application (Apache), database (MySQL), and scripting language (PHP), is packaged in a simple extractable file. XAMPP is cross-platform, meaning it functions equally well on Linux, Mac, and Windows. Because most real-world web server deployments use the same components as XAMPP, transitioning from a local test server to a live server is very straightforward .

1) *Step 1:* Disable your antivirus as it can cause some XAMPP components to behave erratically..
2) *Step2:* Disable User Account Control (UAC). UAC limits write permissions to XAMPP's default installation directory (C:/Program Files/xampp), necessitating installation in a separate directory. You can learn how to disable UAC here .
3) *Step 3:* Start the installation process by double-clicking on the XAMPP installer. Click 'Next' after the splash screen.
4) *Step 4:* At this step, you can choose the components you want to install.. Opt for the default selection and click 'Next'.
5) *Step 5* Choose the folder where you want to install XAMPP. This folder will contain all your web application files, so ensure you select a drive with ample space.

V. PROPOSED SYSTEM

The proposed system for the No Due Management project involves the development and implementation of an online platform to streamline the management of student dues in colleges. This system will feature a centralized database to store student information and dues records, accessible through a user-friendly web interface. Students will be able to view their outstanding dues, outstanding assignments/labs. Administrative staff will have access to tools for verifying payments, approving clearance requests, posting assignment marks, lab marks and generating reports on dues status and trends. Integration with existing college systems, such as student information systems and accounting software, will ensure seamless data exchange and workflow automation.

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The proposed system aims to improve efficiency, accuracy, and transparency in managing student dues, ultimately enhancing the overall experience for both students and administrative staff.

A. Features of the Proposed System

1) Implement distinct user roles for student, faculty, HOD and principal with appropriate permissions to access and manage relevant features within the system.
2) Enable faculty to enter and publish lab marks, assignment marks, and course details such as schedules and grading criteria.
3) Establish a structured process for HOD and principal to review and approve semester no due and final no due requests submitted by students, ensuring compliance with institutional policies.

B. Advantages

1) Centralized Data Management.
2) Convenient Access.
3) Streamlined Clearance Process.
4) Improved Transparency
5) Cost Savings.

C. Technical Feasibility

The system will use HTML and CSS for the front end, with MySQL, PHP, and JavaScript for the back end. It requires a Personal Web Server to handle user requests, and the web pages can be viewed using any standard web browser on Windows or MacOS. The necessary hardware and software are readily available, making the system technically feasible.

D. Operational Feasibility

The system is user-friendly and GUI-based, making it easy for users to operate with minimal training. Key benefits include:

1) Time-saving for end users
2) Service delivered at the user's workplace
3) Minimal cost compared to the benefits

E. Economic Feasibility

The initial investment for hardware and software is low, with no need for further enhancements. The organization will bear these costs, but the benefits will outweigh the initial and running costs, making the system economically feasible.

Fig 1. Home Page

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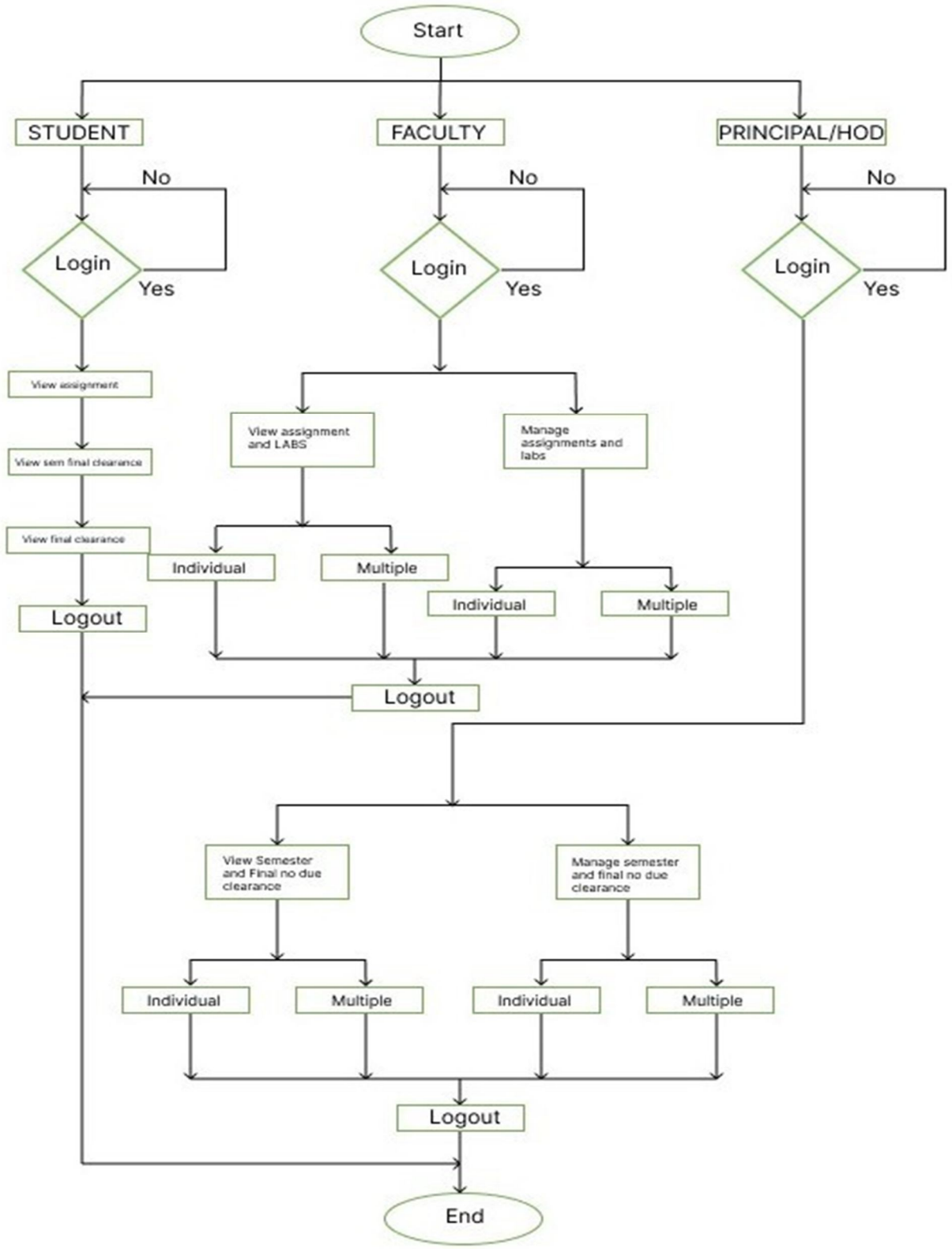
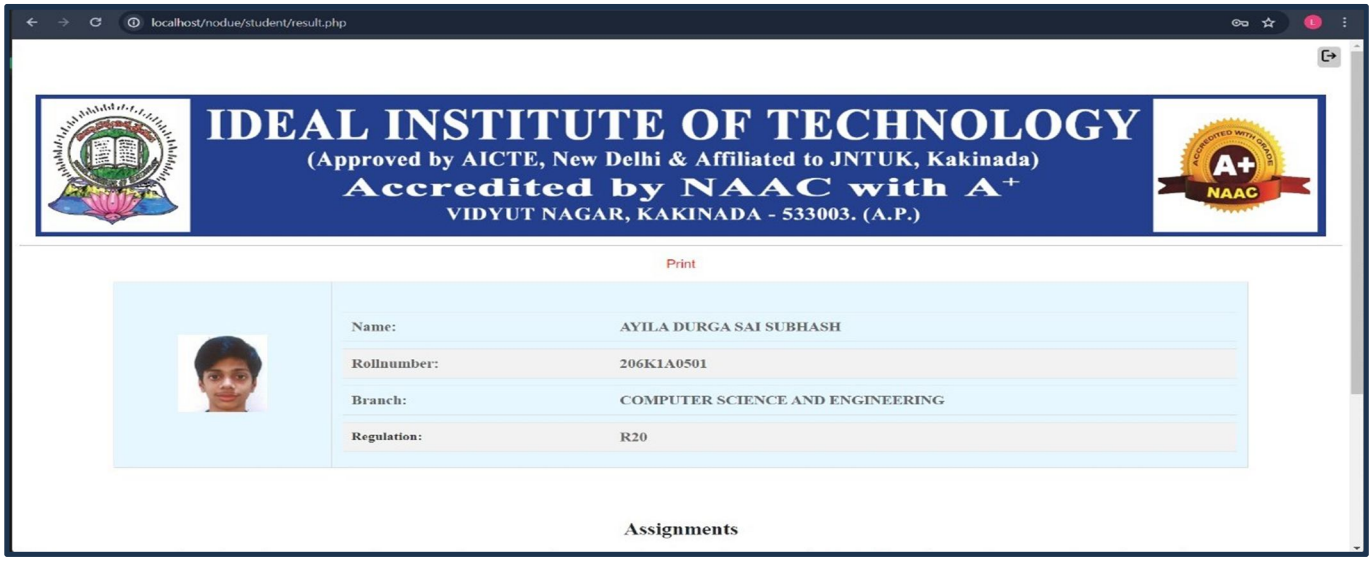
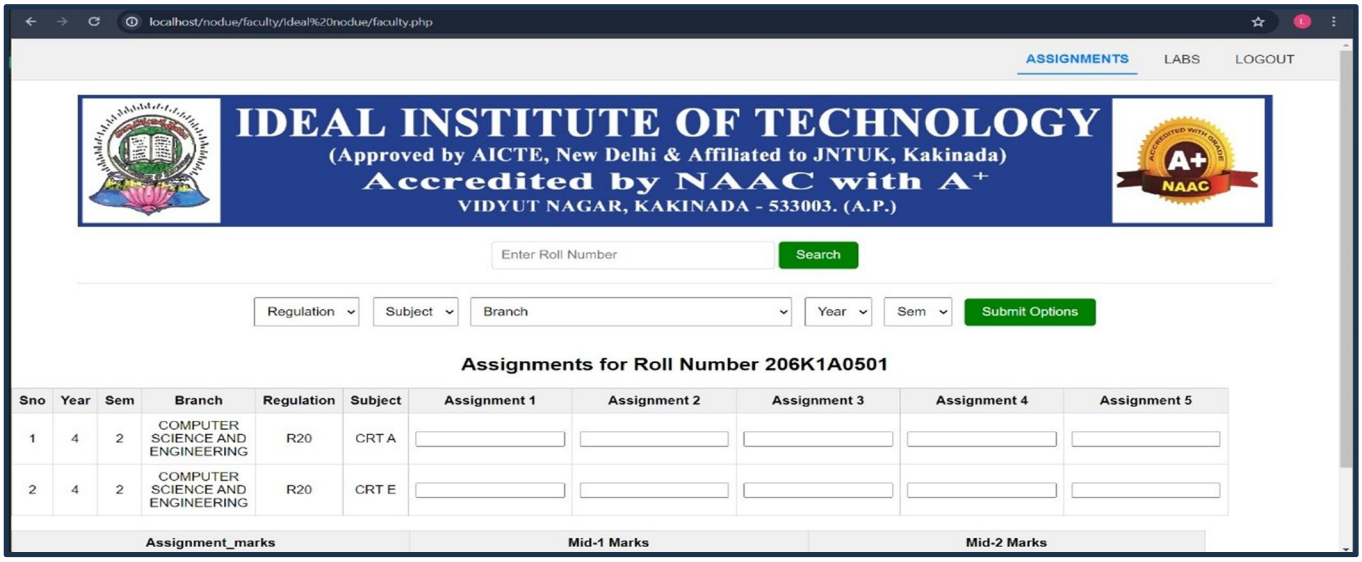
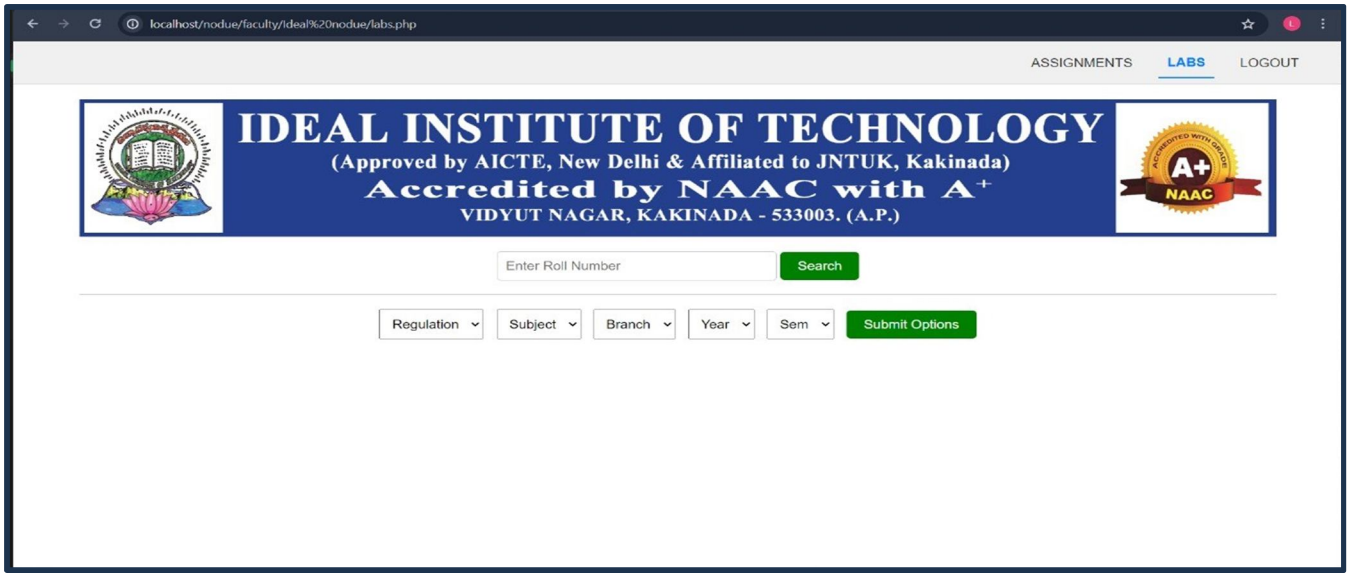
Fig 2. Flow Chart Diagram









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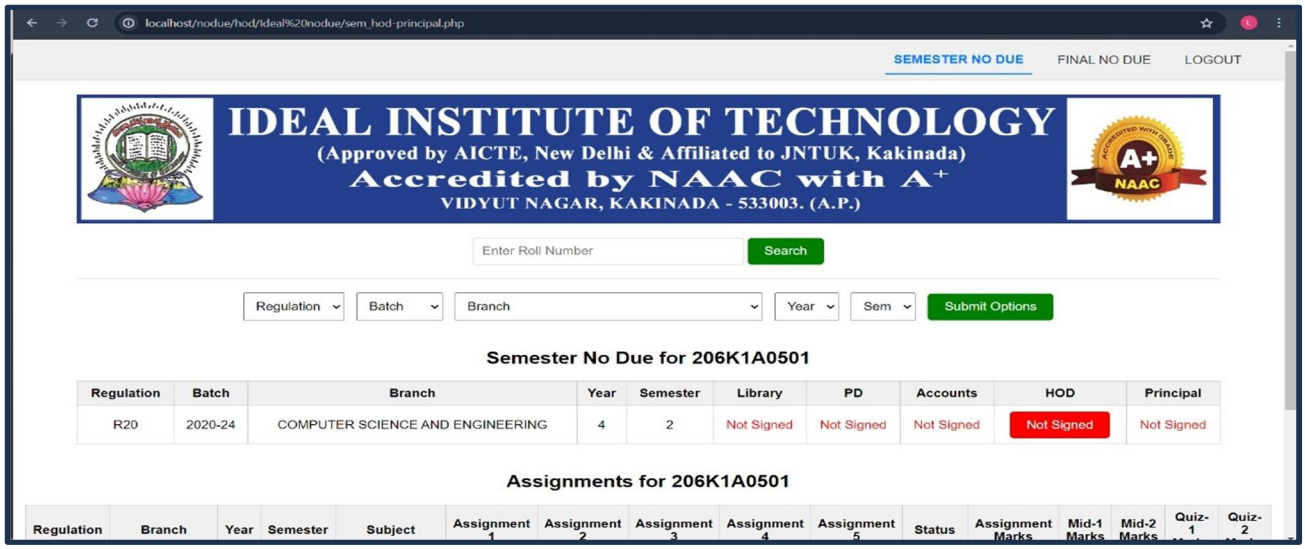

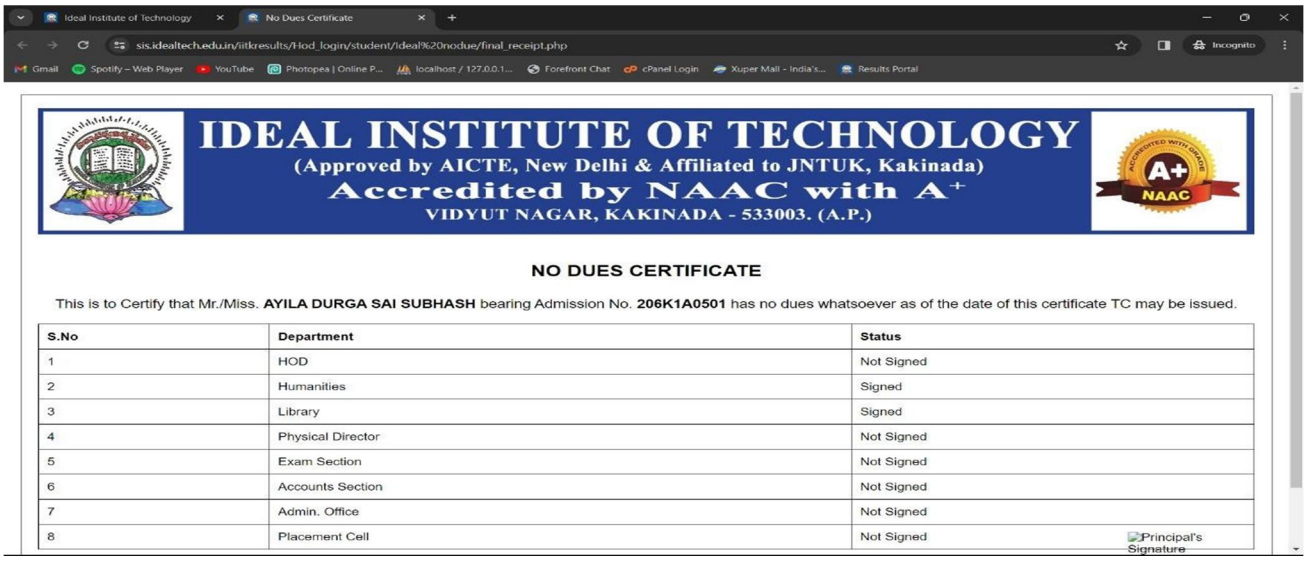

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VI. FUTURE SCOPE

A. *Super Admin Module*

Introducing a fourth module for Super Admin login will enhance the system's oversight and control capabilities. The Super Admin would have access to high-level administrative functions, including user management, system settings, and advanced reporting tools. This module would streamline the overall management process, allowing for better coordination and decision-making across different departments. It ensures that the system remains robust and adaptable to the changing needs of the institution.

B. *Ensuring Fairness and Preventing Cheating*

By incorporating advanced security measures and AI-driven monitoring, the system can significantly reduce instances of cheating and ensure fairness in the clearance process. For example, automated audits and anomaly detection can identify irregularities in user activities, prompting further investigation. Additionally, implementing blockchain technology could provide an immutable ledger of all transactions, ensuring transparency and trust in the system's operations.

C. *Mobile Application Integration*

Extending the system's functionality to a mobile application would enhance accessibility and convenience for users. A dedicated app would allow students, faculty, and administrative staff to manage dues on the go, receive real-time notifications, and complete tasks without being tied to a desktop computer. This integration would cater to the increasing preference for mobile solutions and ensure that the system remains user-friendly and responsive to the needs of its users.

D. *Enhanced Scalability*

Addressing scalability concerns is crucial as institutions grow and their administrative needs become more complex. The system should be designed to handle a larger volume of users and transactions without compromising performance. This could involve optimizing database architectures, leveraging cloud-based solutions for flexible resource allocation, and ensuring that the system can seamlessly integrate with other institutional software. Scalability enhancements would ensure that the no due management system remains efficient and reliable, even as the institution expands

VII. CONCLUSION

In conclusion, An online no due management system offers numerous advantages that significantly outweigh the disadvantages associated with manual processes. By leveraging technology to streamline the tracking, management, and communication of dues, organizations can enhance efficiency, accuracy, and transparency. With features such as centralized data storage, and customizable reporting, assignments and lab marks allocation, online systems empower administrators and enduser a like to efficiently resolve dues, leading to improved productivity and satisfaction. Moreover, the scalability and security provided by online platforms ensure that organizations can effectively manage dues, adapt to evolving needs, and mitigate risks. Therefore, investing in an online no due management system is not just a modernization effort but a strategic decision that can yield long-term benefits for organizational success.

REFERENCES

[1] Gupta, S. (2015), No Due Management System (NDMS) for Educational Institutions, International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 5, Issue 12, pp. 23-27.
[2] Jones, L., & Brown, A. (2018), Efficient No Due Management and Compliance System, IEEE Transactions on Consumer Electronics, Vol. 64, Issue 3, pp. 231-238.
[3] Smith, J. (2017), Innovative Applications of No Due Management Systems in Academic Institutions, Journal of Electrical and Computer Engineering, Vol. 23, Issue 2, pp. 112-120.

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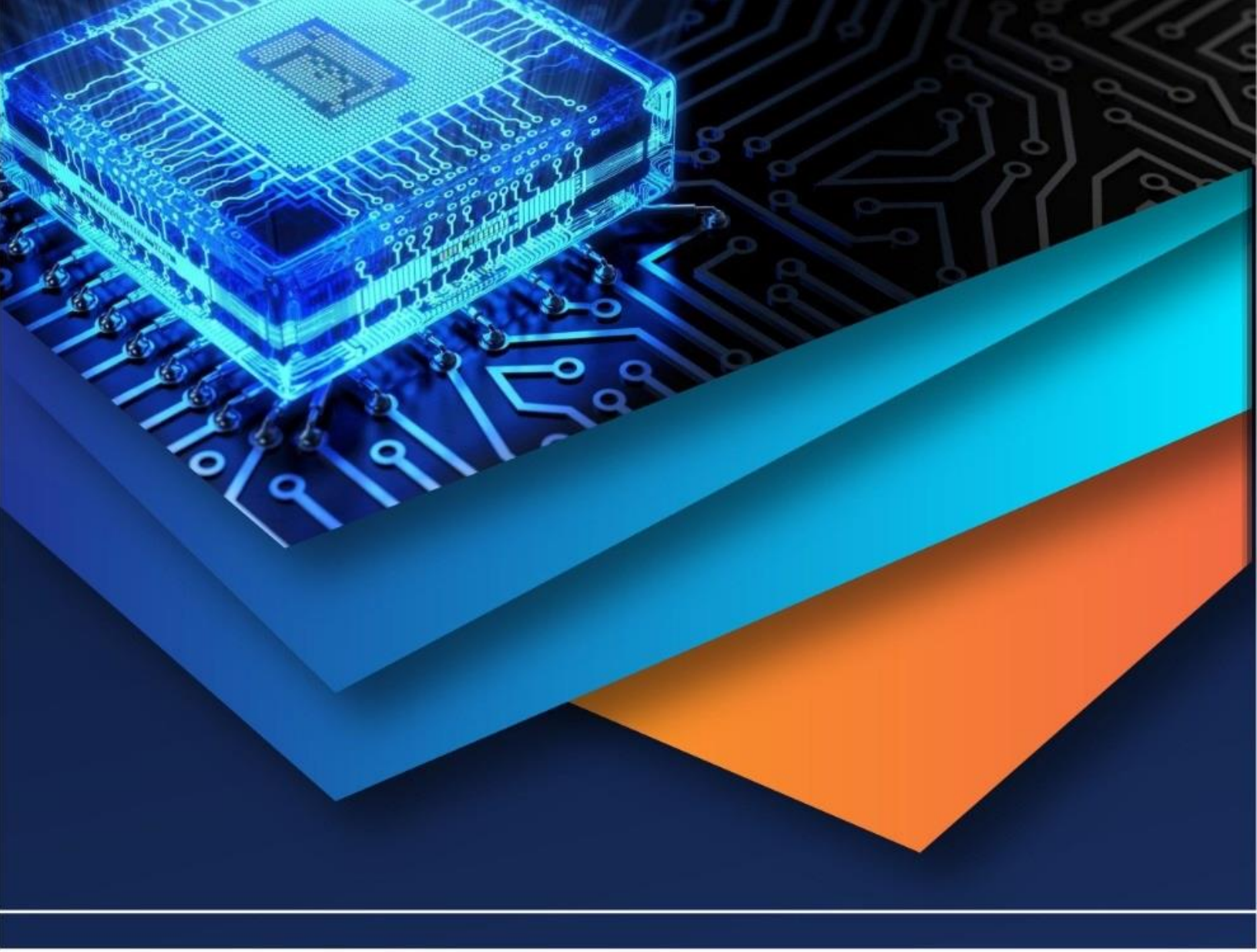

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