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E-Awards and Recognition Portal for Students and Faculty

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ABSTRACT

Acknowledging and recognizing success in both academic and professional settings encourages students and instructors to strive for greatness. Transparency, effectiveness, and scalability are guaranteed by the **E-Awards** and digitization Recognition Portal's and of simplification the nomination, and result dissemination assessment. processes. Because of the system's rolebased access management, administrators designate and oversee award mav categories, faculty and students can nominate candidates, and evaluators can evaluate entries according to preset standards. The portal guarantees smooth performance and safe data management because it constructed with was

contemporary web technologies, such as Java for reliable backend processing, React.js for an interactive frontend, and MongoDB for flexible data storage. Manual inefficiencies are eliminated by automation, while accessibility and justice are improved by digital record-keeping. The approach reduces prejudice and fosters credibility in award distribution by including structured assessment frameworks and secure authentication methods. This essay examines the system's and features. design, room for development, emphasizing how it might help modernize institutional recognition initiatives. The platform may be further improved with future additions like AIassisted assessments and more in-depth analytics, turning it into a complete





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solution for managing faculty and academic awards.

KEYWORDS: E-awards, portal, dissemination, administrator, credibility, faculty

INTRODUCTION

Awards and recognition are essential components of educational institutions' performance and motivation. They are crucial in recognizing and honoring the efforts and accomplishments of staff, instructors, and students. However, the traditional method of handling these prizes is frequently time-consuming and prone to mistakes, leading to inefficiencies that may impede the process of acknowledgment.

A move toward a more simplified and effective approach is represented by the launch of an E-Awards and Recognition Portal. This technology improves openness by automating the award administration process and offering real-time announcements. approvals, and nomination changes. Furthermore, the system's scalability due to technological use enables educational institutions to readily adjust to evolving award criteria handle amount and а higher of nominations.

Additionally, by offering a user-friendly interface that streamlines the nomination and approval process for all parties involved, the E-Awards and Recognition Portal guarantees accessibility. By encouraging more active engagement in the recognition program, this improved accessibility helps the school community develop a culture of gratitude and inspiration.

All things considered, the management of awards and recognition in educational institutions is completely transformed by the installation of an E-Awards and Recognition Portal. In addition to increasing the process's effectiveness and openness, it fosters a lively and upbeat atmosphere that honors the achievements and efforts of everyone inside the organization.

LITERATURE SURVEY

Digital award management has been examined in a number of research and current systems, underscoring its importance in both academic and professional settings. Digital solutions for awards management are provided by established platforms such as OpenWater, Award Force, and Submittable. Although



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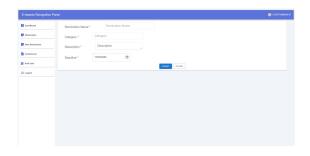
these systems offer complete automation, frequently they need expensive subscriptions and customisation to meet institutional requirements. Research has indicated that RBAC improves online platform security and data integrity. Only authorized users will be able to access the nomination, evaluation, and result publication functionalities when RBAC is implemented.

An automated assessment and scoring methods, predetermined scoring criteria and structured rubrics reduce bias in the distribution of rewards. MongoDB is a popular NoSQL database for real-time applications that handle big datasets. Research shows that MongoDB's schemaless architecture allows for the flexible storing of assessment records and nomination information. Studies have shown that digital recognition and award programs have a favorable effect on teacher and student engagement and The basis for creating an motivation. effective, scalable, and equitable E-Awards and Recognition Portal is provided by these studies.

SYSTEM OVERVIEW

The E-Awards and Recognition Portal operates in three key phases:

Nomination phase: This is the first step in which the administrator establishes the award categories and a deadline for nominations. The administrator has the power to establish many award categories according to a variety of factors, including teacher performance, leadership abilities, extracurricular accomplishments, research contributions, and academic success. The system refreshes the site after the award categories are decided upon, allowing instructors and eligible students to see the rewards. After that, users may access the system and make nominations. Users provide their name, ID, email address, and any pertinent supporting documentation throughout the nomination process. Additionally, a thorough explanation of why the recipient is deserving of the award must be provided. Before safely saving the nomination information in the database, the system makes sure that all submissions predetermined eligibility meet requirements. This stage avoids duplicate or ineligible entries while guaranteeing an open and organized nomination process.







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Evaluation Phase: The Evaluators have access to the nominations that have been submitted after the nomination period ends. Each nomination must be evaluated by evaluators according to predetermined standards, including contributions, influence, academic achievement, and supporting documentation. The portal offers an interface via which evaluators examine the supporting mav documentation, arguments, and supporting documentation for every nominee. The system could include a structured scoring procedure where evaluators distribute marks according to predetermined criteria in order to preserve uniformity and fairness. In order to support their scores, evaluators can also submit written remarks. This stage guarantees that nominations are evaluated seriously and according to a standardized assessment process. An average score may be computed to reduce individual biases, and several evaluators can be assigned to a particular category to guarantee impartiality.

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Result Declaration Phase: The administrator examines the evaluation's results and the evaluators' comments when it is finished. After adding up all of the points, the method creates a final ranking for every award category. Before the results are posted on the site, the administrator has the power to confirm and All users, polish them. including instructors, students, and evaluators, may then view the findings. The victors may also get digital badges, diplomas, or letters of commendation from the system, all of which may be downloaded from the portal. This last stage makes sure that the award results are announced in a timely, organized, and transparent manner.

USER ROLE AND FUNCTIONALITIES

To guarantee smooth and effective operations, the E-Awards and Recognition Portal is built with a clearly defined rolebased access structure. Each of the three main user positions on the platform— Admin, Student/Faculty, and Evaluator has certain duties. All stakeholders are guaranteed transparency, security, and usability thanks to this well-organized role



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separation.

Admin: The administrator is essential to overseeing the awards portal's general operation. They are in charge of establishing and overseeing the award categories, setting the deadlines for nominations, and making that sure everything associated with the awards runs properly. The administrator starts the process by establishing several award categories, outlining the requirements for eligibility, and establishing due dates for nominations and assessments. After the nomination process the starts, administrator may keep an eye on incoming submissions, control user access, and make sure all necessary data has been entered accurately. The administrator is in charge of monitoring and viewing the assessments that the evaluators have produced in addition to supervising the nomination process. Before deciding on the award outcomes, they go over the comments and scores that have been allocated. The results are made available to all pertinent users by the administrator after the evaluation is finished. They can also produce analytics and reports on evaluation data, nominee demographics, and participation patterns. Additionally, the administrator has the power to settle conflicts, modify system preferences, and guarantee that the portal runs smoothly.

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	Mulayam Singh Yadav	Public Attein	NITATED	16-82-2025			MEW
	Shell S. M. Krahma	Public Atlans	INTATED	25-02-2025			NEW

Student/Faculty: The awards system accepts nominations from both academics and students. The nomination procedure, where individuals may suggest themselves or another person for an award, is how they primarily engage with the portal. Users may see the list of available prizes, with deadlines, along qualifying requirements, and thorough descriptions, after logging in. They must include their name, ID, email address, evidence of accomplishment, and а statement explaining why they or the nominee deserve the prize as part of the nomination Users can monitor their process. application's progress after submitting a nomination to see if it is being reviewed, assessed, or completed. Nominees can examine their assessment results and obtain any certificates or digital badges they may have been granted after the findings are made public. In order to keep





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professors and students informed about the award process, the system may also send out reminders about impending deadlines, results, and other significant developments.

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Evaluator: To guarantee a fair and impartial selection process, evaluators are in charge of evaluating nominations in accordance with predetermined criteria. Evaluators can access the submitted applications by logging into the site after the nomination round is over. They thoroughly go over all of the information supplied, including nomination arguments and supporting documentation. Assessments are standardized across many awards and nominations thanks to the evaluation process's framework and predetermined score algorithms. Scores are assigned by each evaluator according to certain criteria, such as faculty excellence, research contributions, leadership abilities, accomplishments, extracurricular and academic success. They must submit written remarks to support their evaluation in addition to the numerical ratings. This feedback gives nominees helpful

information and aids in preserving transparency. Through the site, evaluators may effectively manage pending assessments and monitor their progress in evaluating nominations.

Scores and comments are sent to the administrator for final review when all assessments are finished. This organized procedure guarantees that prizes are given out in accordance with a transparent and equitable evaluation procedure. The E-Awards and Recognition Portal improves the efficiency, security, and legitimacy of the award allocation process by allocating duties among various user profiles.

TECHNOLOGY STACK

To guarantee effectiveness, scalability, and security, the E-Awards and Recognition Portal makes use of contemporary online technology.

Frontend: React.js, a potent JavaScript toolkit renowned for its quick rendering and component-based design, is used to create the portal's user experience. Users can explore, nominate, and monitor progress with ease thanks to React's **International Research Journal of Education and Technology**



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smooth, dynamic dashboard experience.



Backend: Java, a dependable and scalable backend technology, is used to implement the main logic and handle the API. Java is a great option for handling authentication, administering award procedures, and processing evaluations effectively because of its dependability, multi-threading capabilities, and security features.

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Database: For flexible and highperformance data storage, MongoDB, a NoSQL database, is utilized. Its schemaless structure makes it possible to handle nomination information, evaluator comments, and award outcomes with efficiency. The querying and indexing features of MongoDB improve performance and guarantee speedy data retrieval.

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Authentication: Role-Based Access Control (RBAC) using OAuth or JWT (JSON Web Tokens) ensures security. By limiting access according to roles (Admin, Evaluator, Student/Faculty), these measures safeguard user data. The portal provides a quick, scalable, and safe platform for faculty and academic by combining recognition these technologies. For more legitimacy, future improvements incorporate may blockchain-based credential verification and AI-driven assessment.







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BENEFITS

The E-Awards and Recognition Portal uses digital automation to provide a number of The main advantages benefits. are **automation and efficiency** as the streamlines the system nomination, evaluation, and result declaration processes by doing away with the need for manual paperwork. This guarantees a quicker turnaround and greatly lessens the administrative burden. Another significant benefit is **transparency**, as digital records of nominations, assessments, and outcomes reduce prejudices and offer a uniform and equitable review procedure. Additionally, the system has **scalability**, which enables organizations to easily handle a high volume of nominations and establish numerous award categories. An efficient backend and a well-organized database allow the platform to manage growing user traffic and award programs without sacrificing efficiency. Furthermore, rolebased access control (RBAC) makes sure that only authorized individuals may access particular features, demonstrating how important security is. Confidentiality is further improved by data encryption, which shields private nomination and assessment information from unwanted access. Through the integration of these

characteristics, the portal improves accessibility, efficiency, and trust, making it a useful tool for faculty and academic recognition.

CONCLUSION

By providing a smooth, automatic, and transparent platform, the E-Awards and Recognition Portal transforms the way faculty and academic accomplishments are acknowledged. The method encourages a meritocratic and motivated culture within organizations by removing manual inefficiencies and guaranteeing fair evaluations. The portal improves accessibility while preserving data integrity thanks to its scalable design, secure authentication, and user-friendly UI. This platform is a potent tool for expediting the nomination and award educational institutions process as continue to embrace digital change. Future developments, including AI-powered assessments and sophisticated analytics, have the potential to improve the system even more, turning recognition into more than simply a feat but also a source of motivation for ongoing greatness.

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