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Online Event Management System

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Abstract : ***The Online Event Management System is a dynamic web-based platform designed to streamline the process of organizing, managing, and tracking events such as technical, non-technical, and webinar sessions. This system provides a comprehensive solution by integrating functionalities such as user registration, event creation, certificate uploads, publication submissions, and event documentation. Built using Python 3.7 and MySQL, the application offers a user-friendly interface for students, researchers, and coordinators to manage events efficiently. It reduces manual workload, improves accessibility, and enhances user interaction with features like online document uploads, certificate downloads, and event archives. The platform ultimately aims to modernize the event management process in academic and research institutions.***

Keywords: Event Management System, Online Event Handling, Python, MySQL, Web Application, Technical Events, Webinars, Publications, Certificate Management.

I. Introduction

The rapid advancement of web technologies has transformed the way events are organized and conducted in academic and professional environments. Traditional event management systems, which rely heavily on paperwork and manual coordination, often result in inefficiencies, data loss, and communication breakdowns. As educational institutions increasingly host a variety of events—ranging from technical symposiums to guest lectures and webinars—the need for a centralized, automated solution has become crucial.

Online Event Management System addresses this demand by offering a digital platform that events, and track event-related documentation such as certificates, publications, and journals. Through this system, event coordinators are empowered to focus more on content delivery while automation takes care of logistics and documentation.

A key feature of the system is its modular approach, where users can manage multiple categories of events—technical, non-technical, guest lectures, conferences, and even book publications. Each module includes the ability to upload relevant files, track event histories, and generate/download participation certificates. This end-to-end integration simplifies the entire lifecycle of event management.

The user-friendly interface is developed using Python and MySQL, ensuring compatibility with existing web servers and ease of deployment across various institutions. With built-in options like 'Add Events', 'Add Journals', 'View Publications', and 'Download Certificates', the application eliminates the repetitive and error-prone processes typically associated with manual data entry.

Moreover, the system supports detailed event analysis and report generation. This aids institutions in monitoring their academic and outreach activities while maintaining a comprehensive digital repository of all organized events. The system also makes it easier to verify credentials and track participant engagement through certificate and paper uploads.

II. Literature Survey

Several academic efforts have explored the development of automated event management platforms to replace traditional manual methods. In the study by Patel et al. (2018), a centralized event scheduling system was proposed to manage student activities in universities. The research emphasized improving user participation and reducing administrative overhead using a web interface—a concept closely aligned with the present system.

M. Sharma and R. Arora (2019) developed an event automation portal focusing on managing invitations, registrations, and feedback. Their findings showed significant time and cost savings for institutions when using web-based platforms. However, their system lacked integration with publication and certification modules, which are essential in academic event workflows.

In another relevant work, Gupta and Desai (2020) introduced a cloud-based event management application that facilitated real-time notifications and resource allocation. Their project demonstrated the potential of scalable architecture for multi-user access, similar to the backend capabilities of the Online Event Management System built with Python and MySQL.

The study by Singh et al. (2021) looked into hybrid event platforms supporting both virtual and physical events. Their design supported RSVP management, seating plans, and guest check-in features. While feature-rich, the solution was more commercially oriented and lacked support for academic functions like journal or conference paper uploads.

Ramesh and Iyer (2020) addressed the need for academic documentation through a Conference Management System that enabled paper submission and peer-review processes. The Online Event Management System draws from this concept by integrating paper upload and journal management modules, providing a complete academic workflow.

Finally, the work by Thomas et al. (2022) on "Digital Transformation of College Events" focused on the psychological and time-saving benefits of digitizing student club activities. Their study concluded that digital systems improve participation and reduce stress among student coordinators. The current system builds upon this by expanding the scope to include administrative tools, making it more comprehensive for institutional use.

Proposed Method

The proposed Online Event Management System is designed as a web-based platform that facilitates the seamless management of various academic and non-academic events, including technical events, non-technical events, webinars, conferences, journal publications, and patent submissions. The system allows users to register, log in, and manage event-related data through an intuitive interface. Once authenticated, users can access specific modules tailored to different event categories. Each module enables users to input event details, upload related documents such as certificates and papers, and view existing records. For instance, technical event modules allow the uploading of participation certificates, while publication modules support the upload of journals and book papers.

The system is developed using Python 3.7 as the backend language and MySQL as the relational database to store and manage structured data efficiently. The application includes various interactive features such as downloading certificates, adding new event details, and uploading and accessing publication documents. The user interface is accessible through a browser using a local server initialized via a batch file. The modular architecture ensures scalability and easy maintenance, while the centralized database allows for quick access to historical data. This digital platform not only enhances the user experience but also automates the repetitive tasks of event documentation and tracking, providing a more efficient and paperless alternative to traditional event management processes.

Results Analysis

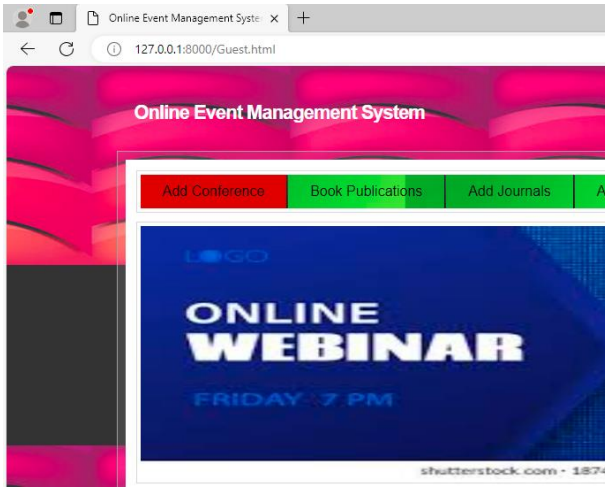

Fig. Home page of the Application

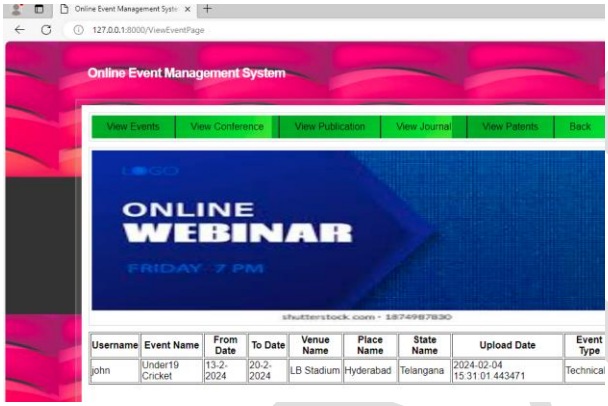

Fig. Events Update

Conclusion

The Online Event Management System is a modern solution tailored to meet the evolving needs of educational institutions in organizing and managing a variety of events. It provides end-to-end functionality, from user registration and event creation to certificate and publication management. With its modular design and intuitive user interface, the platform significantly reduces manual effort, increases data reliability, and enhances the event experience for both coordinators and participants.

This system not only streamlines the backend operations of event planning but also ensures proper documentation and traceability of academic contributions. Features like downloadable certificates, paper uploads, and patent tracking bring academic rigor and validation to institutional events.

Its implementation using Python and MySQL ensures easy maintenance, scalability, and integration with existing IT infrastructure. Overall, the system contributes toward building a sustainable, digital-first approach to academic event management, enabling institutions to focus more on knowledge creation and dissemination.

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