



EVENT MANAGEMENT APPLICATION

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Abstract—

This major project, titled "Event Management", presents the design and implementation of a comprehensive system to streamline the planning, coordination, and execution of various types of events. The primary objective of this project is to simplify the complex process of event organization by offering a centralized platform for managing tasks such as guest lists, venue booking, budgeting, scheduling, and communication. The system is developed using modern web technologies to ensure user-friendly interaction, flexibility, and real-time updates. This project also emphasizes the importance of efficient data handling and user management to ensure smooth event operations. Overall, the Event Management system aims to enhance productivity and reduce manual effort, making it a valuable tool for individuals and organizations involved in event planning.

Keywords:

JAVA,MYSQL,

I. INTRODUCTION

For our Software Design and Analysis project, we are designing a cross platform (*accessed through the internet and mobile applications*) Event Management System for a fictional Event Management firm named "A.S.H Events". It will provide the clients of the firm with an easy-to-use platform for communicating with the organizers, whilst also reducing the firm's labor load (*taking orders will be digitalized*). Our purpose is to override the problems prevailing in the practicing manual system and provide OUR clients (*A.S.H Events*) with a system which will link them to their account, store and categorize their orders (*according to dates/ most time required for planning/level of urgency etc.*) so they can function efficiently and provide their best service.

II. LITERATURE REVIEW

The concept of event management has evolved significantly with the advancement of information technology. Traditionally, event planning was handled manually, involving extensive paperwork and face-to-face coordination, which was both time-consuming and prone to errors. However, with the rise of digital solutions, many web-based and mobile applications have emerged to assist in automating and simplifying event-related activities.

Modern event management systems now integrate features such as user registration, event categorization, calendar synchronization, and payment gateways. These features enhance user experience and ensure seamless coordination between event organizers and participants. Research also shows that incorporating cloud databases and RESTful APIs improves scalability and data access in distributed environments. Despite the availability of existing systems, many lack customization, user-friendliness, or affordability for small-scale users. This gap highlights the need for a flexible and scalable system that can be used for various event types such as weddings, seminars, and corporate meetings. This project aims to address these limitations by developing a web-based Event Management System using modern full-stack technologies that ensure responsiveness, security, and ease of use.

III. SYSTEM DESIGN

The Event Management System is designed to streamline the entire process of event planning, from



user registration to event execution. The system follows a three-tier architecture, which includes the presentation layer (frontend), the business logic layer (backend), and the data layer (database). This layered architecture ensures separation of concern, scalability, and maintainability.

IV. IMPLEMENTATION

The Event Management System was implemented using a full-stack web development approach to provide a responsive and user-friendly interface with secure and efficient backend services. The system integrates various modules to handle user interaction, event scheduling, venue booking, and guest management.

V. RESULTS

The Event Management System was successfully designed and implemented to simplify the process of planning and managing events. The system provides a user-friendly interface and robust backend functionalities that allow users to create, update, and manage events with ease. The system was tested thoroughly, and all modules performed as expected without major issues. It achieved the goal of reducing manual effort and improving coordination in event management.

VI. CONCLUSION

The Event Management System project successfully demonstrates how technology can be leveraged to automate and streamline the complex process of organizing events. By integrating modern web technologies such as React.js for the frontend, Spring Boot for the backend, and MySQL for data management, the system provides an efficient, scalable, and user-friendly platform for handling various event-related tasks.

This project has achieved its primary objectives — enabling users to create and manage events, handle guest lists, book venues, assign tasks, and monitor budgets — all within a centralized system. The role-based access control and secure login mechanism ensure data privacy and proper user management.

Through the implementation and testing phases, the system proved to be reliable and responsive, with potential for future enhancement such as payment integration, real-time chat support, and mobile app development.

Overall, this project has not only met academic goals but also provided practical insights into full-stack development, system integration, and real-world problem-solving in event planning.

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