

MatoshriBuddy: A Smart Event Hosting Platform for College Students

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Abstract: *In today's academic environment, seamless communication and coordination are essential for organizing successful events, workshops, and student activities. However, many colleges still rely on outdated systems such as notice boards, group chats, or word-of-mouth promotions, which often result in miscommunication, low participation, and unorganized event management. To address this gap, we present MatoshriBuddy — a full-stack web application designed to serve as a centralized digital platform for hosting and managing college events.*

MatoshriBuddy empowers students, faculty, and event coordinators to create, discover, and manage events all in one place. The platform provides a dynamic and interactive home page that displays all upcoming and ongoing events with essential details like event name, description, time, date, and organizer information. Event creators can easily publish events, while students can browse through the list, view event details, and stay informed in real time.

To ensure secure access and personalized experiences, the application features an authentication system with email verification using Nodemailer, allowing users to sign up, verify their email, and log in to the platform. Once logged in, users can access dashboards tailored to their roles—whether as participants or event hosts.

The application is built using the MERN stack—React.js for building a responsive and modern frontend interface, Node.js and Express.js for handling server-side logic and APIs, and MongoDB for a flexible, document-based database solution. This stack provides the performance and scalability needed for real-time interactions and multiple user roles. The use of RESTful APIs ensures a smooth and consistent flow of data between the client and server.

By streamlining the event creation and discovery process, MatoshriBuddy significantly enhances student engagement and reduces the logistical challenges faced by event organizers. It serves not just as a tool but as an enabler of digital transformation in academic institutions. With potential future extensions including mobile app integration, push notifications, and QR code-based check-ins, MatoshriBuddy is a forward-looking solution tailored for modern campus life.

With its scalable architecture and user-centric design, MatoshriBuddy not only addresses current challenges in college event management but also lays the groundwork for future advancements in campus digital infrastructure. By bringing all event-related functionalities into a single portal, the platform reduces dependency on fragmented tools and enhances collaboration among students, faculty, and organizers. Looking ahead, the application can be extended to support features like role-based access for student clubs, integration with campus calendars, automated attendance tracking using QR codes, and real-time feedback collection after events. These innovations have the potential to transform MatoshriBuddy from a simple event management system into a comprehensive campus engagement hub, fostering a more connected and participative academic community.

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