

Eventify

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Abstract – The-Eventify is a web-based application designed to simplify the process of creating, organizing, and managing events. It enables users to create both public and private events, providing flexibility for open community gatherings or invitation-only meetings. Each event maintains real-time participant counts, helping organizers monitor attendance and manage capacity effectively. The system offers features such as event registration, user authentication, and event visibility control to ensure secure and efficient management. By integrating these functions into a unified platform, the Event Management System enhances event coordination, improves user engagement, and streamlines the overall event lifecycle from creation to completion.

Key Words: Public Events, Private Events, Event Creation, Participant Count, User Authentication.

1.INTRODUCTION

The Eventify is a web-based application developed using the MERN stack (MongoDB, Express.js, React.js, Node.js) along with HTML, CSS, and JavaScript to provide an efficient platform for creating, managing, and organizing events. It allows users to create both public and private events, offering flexibility for open or restricted gatherings, while maintaining real-time participant counts to help organizers track attendance and manage capacity effectively. MongoDB stores event and user data, Express.js and Node.js handle backend logic and server-side operations, and React.js provides a responsive and interactive user interface. HTML structures the pages, CSS enhances the visual design, and JavaScript adds interactivity for a seamless experience. By integrating these technologies, the system ensures smooth communication, accessibility, and automation in event management, reducing manual work and improving overall efficiency for both organizers and participants.

2. Body of Paper

2.1 Event Creation and Classification

The Eventify enables users to efficiently create, classify, and manage events through an intuitive and responsive web interface. Developed using the MERN stack (MongoDB, Express.js, React.js, Node.js) with HTML, CSS, and JavaScript, it allows the creation of both public and private events based on user preferences and accessibility requirements. Public events are visible to all registered users, promoting open participation and community engagement, while private events are restricted to

invited participants, ensuring privacy and exclusivity. Each event includes essential details such as title, description, date, time, venue, and participant limit, all stored securely in the MongoDB database. React.js provides a dynamic frontend that allows real-time updates, including automatic participant count tracking when users register or withdraw. The backend, powered by Node.js and Express.js, manages event creation, data validation, and storage, ensuring smooth communication between client and server. This module ensures flexible event organization, enabling users to effectively manage visibility, attendance, and participant interactions within a streamlined and user-friendly environment.



Fig-1: Frontend of Eventify

2.2 Creation of Private and Public Events and RSVP

The Eventify provides a powerful and flexible feature for creating and managing both private and public events, along with an integrated RSVP (Respond if attending) mechanism that enhances user interaction and event coordination. Public events are designed to be open to all registered users, allowing anyone to view, register, and participate, thus encouraging community involvement and open engagement. On the other hand, private events are restricted to specific invited participants, ensuring exclusivity and privacy for personal or confidential gatherings. During the creation process, organizers can input essential details such as the event title, description, category, date, time, venue, and participant limit, which are securely stored in the MongoDB database. The backend, developed with Node.js and Express.js, handles all event-related operations including validation, authentication, and permission control, ensuring secure data flow and access management. The RSVP functionality allows invited users to confirm or decline attendance with a single click, automatically updating the participant list and real-time attendance count. When a user confirms participation, their response is recorded instantly, and the event's available slots are updated to reflect accurate attendance data. On the frontend, React.js provides a responsive and interactive user interface that

dynamically updates RSVP responses and event details without requiring page reloads, making the experience seamless and engaging. This combined module of event creation and RSVP tracking ensures efficient communication between organizers and participants, supports transparent attendance management, and provides flexibility for organizing both open community events and private gatherings. By integrating these features, the system simplifies event planning, enhances collaboration, and delivers a smooth, data-driven experience for users, making it an ideal digital solution for modern event management.

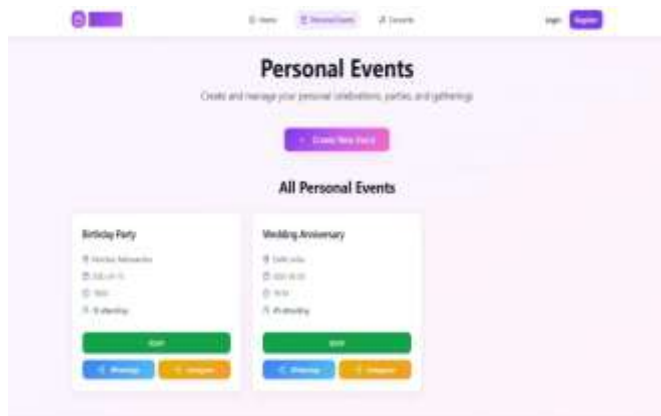


Fig -2: Create private event and RSPV count

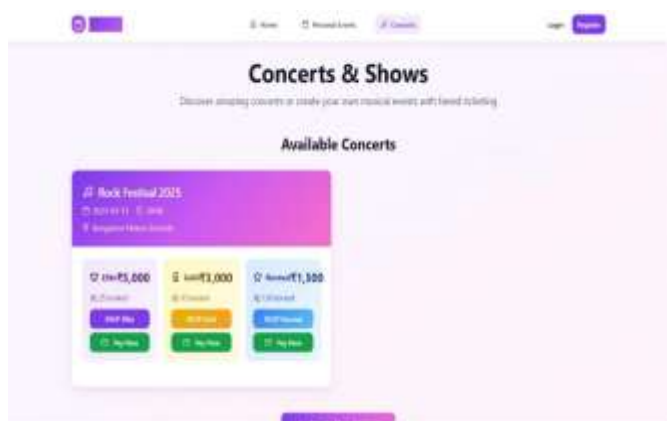


Fig -3: Create public event and RSPV count

3. CONCLUSIONS

The Eventify developed using the MERN stack, complemented by HTML, CSS, and JavaScript, successfully provides a comprehensive and user-friendly platform for creating, managing, and monitoring both public and private events. By integrating features such as real-time participant tracking and RSVP management, the system streamlines event planning and improves communication between organizers and attendees. Its flexible architecture supports diverse event types, ensuring accessibility, privacy, and scalability. The responsive interface powered by React.js enhances user experience by enabling dynamic updates without page reloads, while the robust backend ensures secure and efficient data handling. Overall, this project demonstrates how modern web technologies can be leveraged to

simplify event coordination, reduce manual efforts, and foster engagement, making event management more effective and enjoyable for all users.

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