

EventMingle Management System

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Abstract

The emergence of event-focused social networks has led to a significant increase in online group memberships and event invitations for millions of people. Unlike traditional social platforms, event networks require physical attendance at gatherings or events as a crucial aspect of user engagement. However, managing event announcements, dates, times, and attendee information can be cumbersome, highlighting the necessity for an efficient event management system that simplifies event discovery and attendance while fostering social interactions among users. Such a system can substantially enhance the event experience for attendees while facilitating streamlined event planning for organizers.

EventMingle, a web platform, addresses this need by providing a unique approach to connecting people in diverse locations to enrich their lives. Unlike conventional social networks, EventMingle revolves around arranging offline, in-person meetings rather than merely discussing shared interests online. These gatherings often take place in public venues such as cafes, parks, and occasionally private residences. By offering a platform for users to connect and engage in shared activities, EventMingle creates opportunities to forge new friendships, actively participate in the local community, and pursue passions more actively. Organizers utilize the website to create events, enabling individuals with common interests to connect and share their enthusiasm for specific topics.

EventMingle serves as a user-friendly tool for discovering and attending events in one's local area. Given the abundance of events occurring daily, keeping track of everything, particularly for newcomers or those seeking specific types of events can be challenging. EventMingle simplifies this process by facilitating event discovery based on users' interests and providing comprehensive details such as dates, times, and locations. The platform's Meet-In feature allows users to find like-minded individuals, leading to the formation of close-knit communities centered around shared passions. This aspect of EventMingle is especially valuable for combating feelings of isolation and disconnection among users.

Furthermore, EventMingle offers a valuable platform for personal growth and development. By connecting users with others who share similar interests. Meetup groups encourage mutual motivation and support, leading to personal growth opportunities. This feature proves particularly beneficial for individuals seeking motivation or fresh opportunities for self-improvement and advancement.

Keywords : Event-focused social networks, EventMingle, like-minded communities, Meetup groups, real-world interactions

I. INTRODUCTION

The EventMingle Management System (EMS) is a comprehensive software platform designed to simplify event planning and management. With EMS, event organizers can automate various tasks, such as attendee management, ticketing, registration, communication,

and data analysis. The cloud-based technology of Meet-in enables event organizers to control every aspect of their events from a single dashboard, creating event pages, setting up registrations and tickets, managing attendees, sending reminders and alerts, and tracking essential metrics like ticket sales and attendance rates [1].

Meet-in empowers event planners with the ability to

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design unique event pages, manage event registration and tickets, process payments, and monitor attendance data, all within one user-friendly interface. Moreover, the platform offers marketing and advertising options, including seamless social media integration and efficient email campaigns. Its adaptability allows it to cater to events of all sizes from small workshops to large conferences and trade exhibitions with the flexibility to customize the user experience to match specific event requirements [2].

Data-driven insights are a focal point in EventMingle, providing real-time analytics that aid event planners in decision-making. These insights encompass critical statistics on ticket sales, attendance levels, engagement rates, and more. By analyzing customer feedback and evaluating marketing initiatives, EventMingle equips event planners with valuable real-time data to optimize event strategies [3].

Whether organizing small meetings or grand conferences, EventMingle benefits anyone involved in event planning by streamlining the entire management process, freeing up time and resources for other essential elements of the event. The platform offers diverse marketing and promotion tools, such as email campaigns and social media integration to boost event visibility and attract attendees. Ultimately, EventMingle serves as an all-encompassing event management system that not only organizes events efficiently but also provides insightful information and statistics to enhance event effectiveness [4].

II. MOTIVATION

The "EventMingle Management System" seeks to revolutionize the event management landscape by creating a comprehensive platform that simplifies event planning, enhances attendee experiences, and fosters personal and professional growth [5]. By embracing innovative technology and data-driven approaches, the project aims to become a pivotal tool in transforming how events are organized, attended, and enjoyed worldwide.

III. PROBLEM STATEMENT

The EventMingle Management System project aims to address several challenges prevalent in traditional event planning and management [6]. These challenges include fragmented event discovery, manual, and time-

consuming processes for tasks like attendee management and registration, limited networking opportunities, inefficient data analysis, inflexible event solutions, and limited integration with marketing channels. Such inefficiencies hinder the seamless organization of events and result in suboptimal attendee experiences [7]. To overcome these hurdles, the project aims to develop a comprehensive and user-friendly platform that streamlines event planning, enhances attendee experiences through networking features, and provides real-time data insights for informed decision-making [8]. Ultimately, the "EventMingle Management System" endeavors to revolutionize the event management landscape, benefitting both organizers and attendees with a more efficient and engaging event experience.

IV. LITERATURE REVIEW

Literature review introduces a web-based conference management system designed to facilitate online conference management and attendance for organizers, reviewers, and participants. The authors conduct a comprehensive review of existing conference management systems, highlighting their limitations, such as the need for software installation and maintenance on user computers. They propose an alternative system architecture based on a three-tier client-server model with a web-based user interface. This system enables organizers to manage paper submissions, reviews, and session scheduling, while reviewers can evaluate papers online and provide feedback. Participants have access to conference schedule, online registration, and payment. The paper discusses the system's implementation using the LAMP stack and provides details on the system's modules and their functionalities. It also includes the results of a user evaluation, demonstrating the system's ease of use and effectiveness for managing and attending conferences online [9].

The paper highlights the importance of event management in smart cities, with a mobile application for accessing event information. A survey of 100 users shows the system is user-friendly, but improvements such as personalized features and social media integration are needed. The paper contributes insights for smart city event management using the MEAN stack and mobile app [10].

The proposed system addresses several challenges associated with organizing events and provides a flexible

and scalable solution that can be customized to meet the requirements of different types of events [11].

The authors identify the challenges faced by educational institutions in managing events and propose a solution that has the potential to improve the efficiency of the event management process. The study highlights the importance of developing tailored event management systems for specific contexts and provides a useful framework for future research in this area [12].

The proposed system has the potential to improve the efficiency and effectiveness of event planning and management, particularly for large-scale events. However, further research is needed to validate the effectiveness of the system in other contexts and to address any potential limitations or challenges [13].

It provides a comprehensive overview of the design and implementation of a web-based event management system for small to medium sized events. They introduce a technology stack that is well-suited for building scalable and robust web applications and provide a thorough explanation of the system's features and functionality [14].

The system's use of the Model-View-Controller (MVC) architecture and the PHP programming language make it a valuable reference for developers interested in building similar systems [15].

The authors utilize the Model-View-Controller (MVC) architecture for the system design and implement it using PHP and MySQL. The system architecture is described in detail and the authors provide screenshots of the system interface to illustrate its functionality [16].

The authors used the MERN (MongoDB, Express, React, Node.js) stack for the development of the system, which allowed for real-time updates and efficient data storage. The system also included a user-friendly interface for event organizers and attendees, as well as an admin dashboard for managing events and user accounts [17].

The authors conducted experiments using a test bed consisting of virtual machines deployed on a cloud computing platform. The experiments showed that the proposed system can handle a large number of concurrent users and provide fast response times, even under high load conditions [18].

V. EXPERIMENTAL SETUP

EventMingle management application system is

composed of two main components, which are the front-end system and the back-end system. The front-end system is designed using HTML and CSS, and its main function is to display information to users. This component is responsible for querying the data from the remote database and sending data to be stored in the database. The front-end system communicates with the back-end system, which is built using PHP and XAMPP.

The back-end system serves as the database management section and always interacts with the front-end system. It is responsible for receiving data from the front-end system, processing it, and storing it in the remote database. Additionally, the backend system will send the required data to the front-end system whenever a request is made. The back-end system is also responsible for providing security to the application by implementing security measures such as access control and data encryption.

Overall, the front-end system and back-end system work together to provide a seamless user experience in the event management application system. The front-end system presents information to the user, while the back-end system processes and manages the data behind the scenes. The use of PHP and XAMPP in the back-end system enables efficient management of the remote database and ensures the security of the application.

The modules and features in EventMingle are described next.

Fig. 1 shows the admin dashboard of event management systems, which is safeguarded by login authentication and authorization, granting access only to authorized users. It offers a user-friendly interface with various tools to efficiently manage and control the system. The dashboard's significance lies in its capability to oversee events, manage user accounts, and track system performance. By providing an overview of users, events, and ticket sales, administrators can make informed decisions and address potential issues promptly. Moreover, the centralized nature of the admin dashboard eliminates the need to access different parts of the system separately, streamlining administrative tasks. Ensuring the security and integrity of sensitive information is another critical aspect facilitated by the dashboard. By closely monitoring and managing user data and financial information, administrators can prevent unauthorized access.

The admin dashboard encompasses functionalities such as viewing and managing general user accounts,

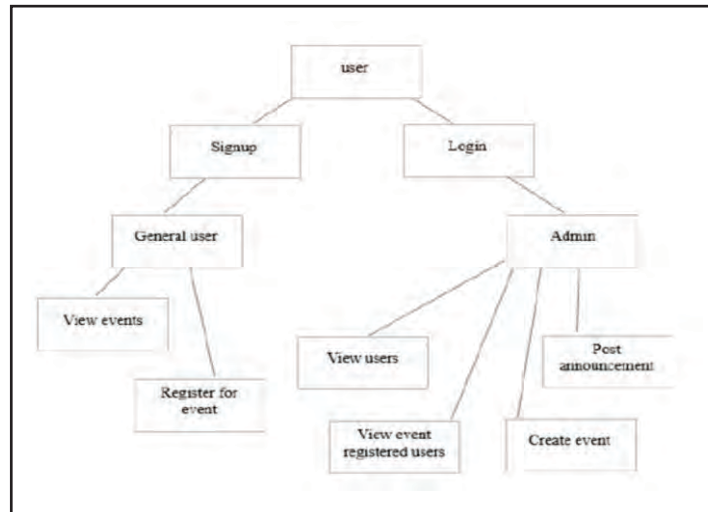


Fig. 1. Block diagram of system

overseeing registered users for specific events, creating new events, and posting announcements to communicate essential information to users. On the other hand, the user dashboard designed for individual registered users, allows them to view available events and easily register for those of interest. Overall, the admin dashboard plays a pivotal role in the effective management and control of event management systems, empowering administrators with the necessary tools and information for seamless operation.

VI. IMPLEMENTATION OF EVENTMINGLE

The web application developed using PHP and XAMPP server utilizes an open-source platform suitable for small industrial projects. XAMPP's compatibility allows developers to work on their preferred Operating Systems. The application's impact is evident in facilitating self-organizing groups of "culture consumers," fostering a sense of community, and combatting feelings of isolation in large cities. Moreover, it enhances the social experience of going out, benefiting not only the cultural sector but also the broader hospitality and entertainment industries. The application's success demonstrates the potential for technology to promote social connections and create more meaningful experiences for audiences.

As shown in Fig. 2 and 3, Login authentication in the EventMingle Event Management System is crucial for securing sensitive information and preventing unauthorized access.

As shown in Fig. 4, the dashboard is the main interface of the EventMingle Event Management System. As shown in Fig. 5, event creation page is used to create new event and after creation, registered user page is viewed as shown in Fig. 6. It provides a quick overview of the key performance indicators and essential data related to the application. Fig. 7 shows User Management page. The dashboard contains various widgets that show the important metrics and visualizations such as users, events, and announcements as shown in Fig 8.

The dashboard is divided into different sections based on the functionalities of the system. The main sections of the dashboard are described next.

As shown in Fig. 9 and Fig. 10, the user login page and dashboard page in an event management system is a section of the website that is specifically designed for individual users who have registered on the website. It provides a personalized experience for users to access and manage their account and event related activities.

For attendees, event management systems provide a convenient way to find and register for events, and keep track of their schedules. These applications often offer features like personalized recommendations based on interests and past attendance, as well as social features that allow users to connect with other attendees and share their experiences.

One challenge with event management systems is ensuring that they are secure and that user data is protected. As with any web application, security vulnerabilities can be exploited by hackers or other malicious actors, potentially compromising sensitive information like credit card numbers or personal data.

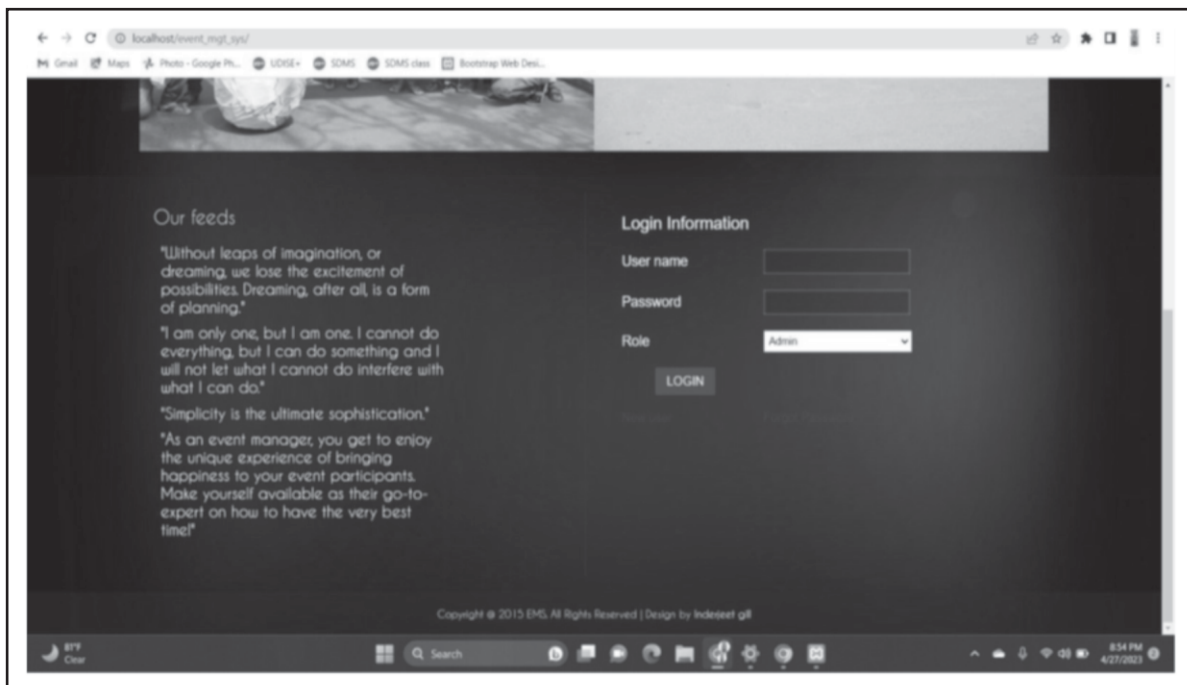


Fig. 2. Login Information

Sign up

Please Enter correct detail to sign in web Form

First name * (Enter 3 character Minimum)

Last name * (Enter 3 character Minimum)

User name * (Enter 3 character Minimum)

Password * (Enter password in 6-10)

Conform password * (Enter password in 6-10)

Personal Detail

E-mail ID * (Enter Email-ID in Correct Format)

Country

I am

Birth date

Security Question (Selection must be required.)

Answer * (Enter proper Answer)

Role

Fig. 3. Creating a Login Authentication

Overall, event management system web applications have the potential to greatly enhance the event planning and attendance experience. By leveraging technology to streamline processes and provide personalized

experiences, these applications are helping to make events more accessible, engaging, and enjoyable for everyone involved.



Fig. 4. Admin Dashboard Page

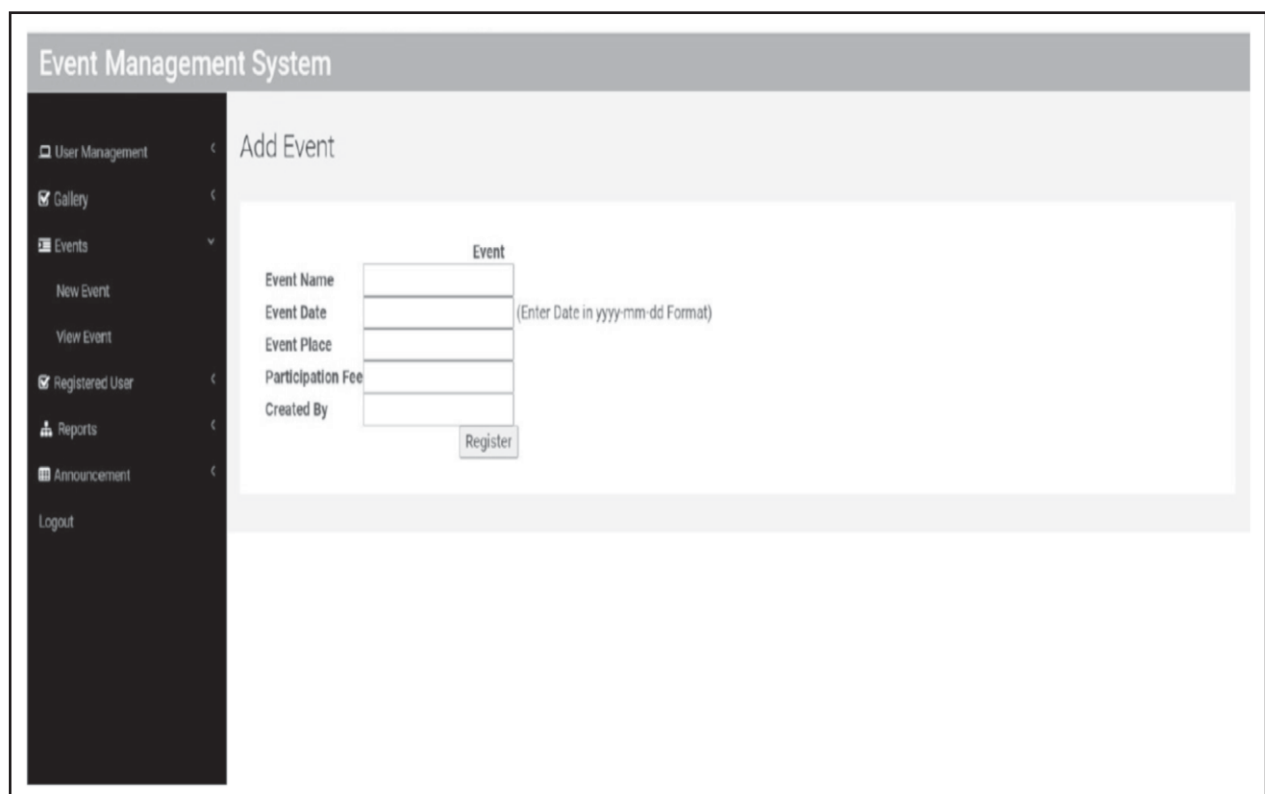


Fig. 5. Event Creation Page

Event Management System						
<ul style="list-style-type: none"> User Management Gallery Events Registered User User Reports Announcement Logout 	Registered User					
	Event Name	Event Date	Person Name	Person Email-id	Person Contact	Attention
	Hacking day	2015-09-20	user	user@gmail.com	2	Going
	Soloman It	2015-10-19	user	user@gmail.com	1	Maybe
	Soloman It	2015-10-19	user	user@gmail.com	12	Going
	Soloman It	2015-10-19	user	user@gmail.com	6	Not Going
	Soloman It	2015-10-19	user	user@gmail.com	11	Going
	Soloman It	2015-10-19	user	user@gmail.com	1	Not Going
	coding	0000-00-00	user	user@gmail.com	2	Going

Fig. 6. View Registered User Page

Event Management System						
<ul style="list-style-type: none"> User Management View User Active User Ban User Gallery Events Registered User Reports Announcement Logout 	User					
	Id	First Name	Last Name	Username	Date Of Birth	E-mail
	1	user	user	user	2012-02-02	user@gmail.com
	2	admin	admin	admin	1992-12-02	admin@gmail.com
	3	niket	pinwor	Nipower123	1991-01-01	pawaniket123@gmail.com
	4	niket	pinwor	Nipower123	1991-01-01	pawaniket123@gmail.com
	5	niket	pinwor	user	1991-01-01	pawaniket123@gmail.com

Fig. 7. User Management Page

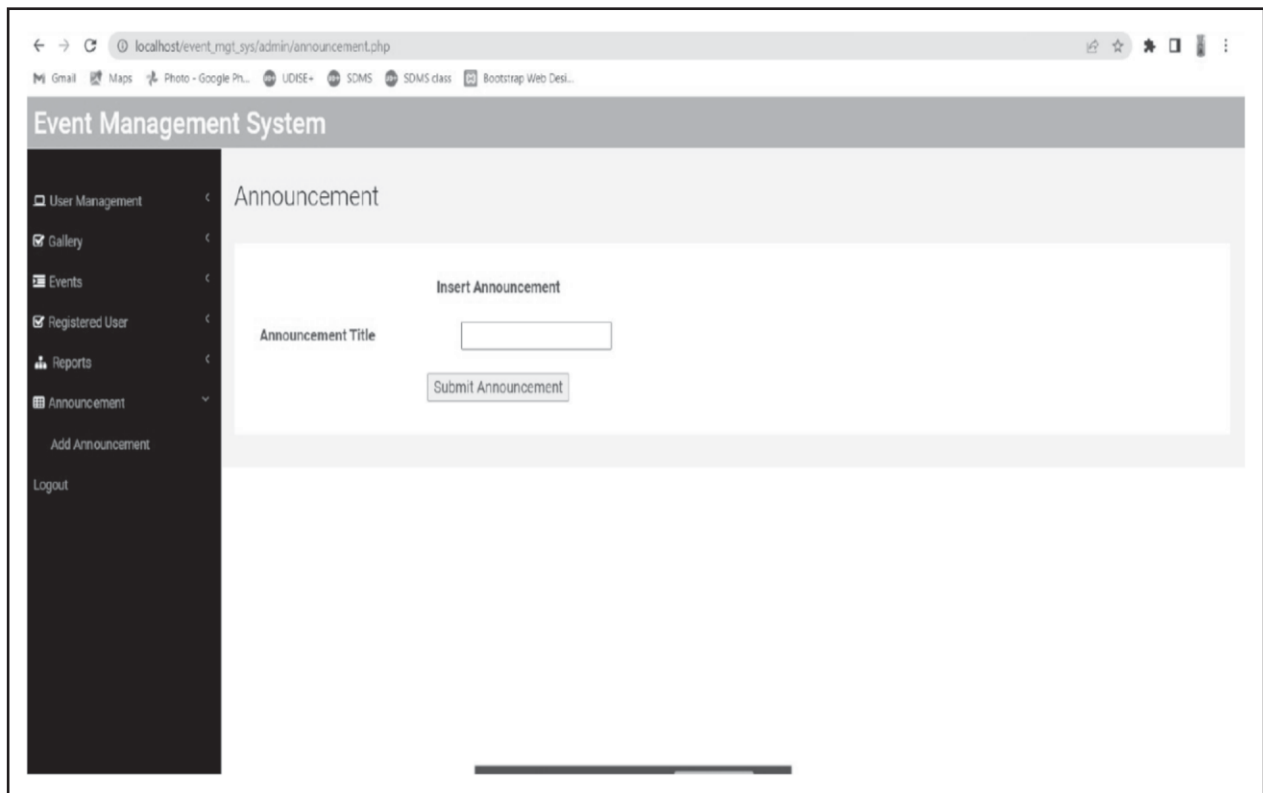


Fig. 8. Announcement Page User Dashboard

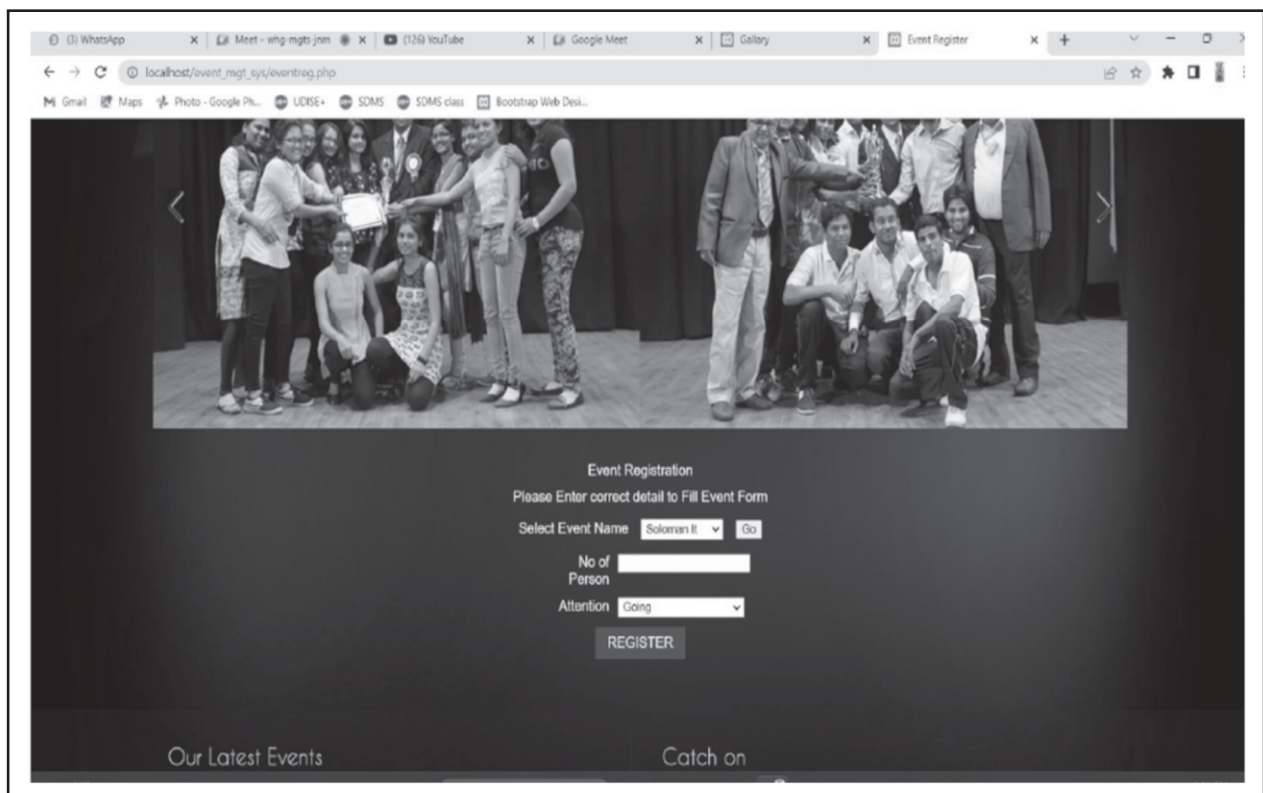


Fig. 9. Event Registration

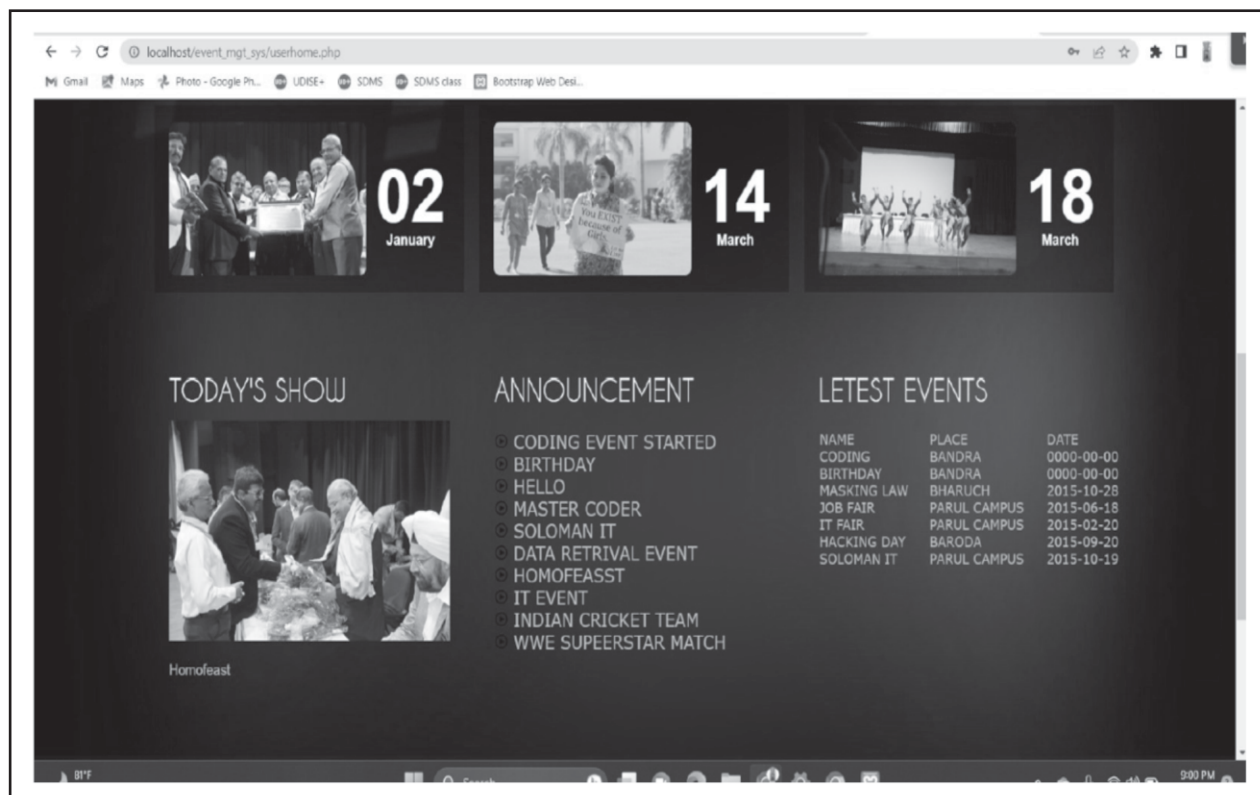


Fig. 10. User Dashboard Page - View Events

VII. CONCLUSION

By leveraging the power of online platforms, EventMingle organizers can easily promote their events, while attendees can conveniently register from their computers or smartphones. This level of accessibility saves time and ensures attendees can stay informed about upcoming events effortlessly. Additionally, EventMingle management systems provide personalized EventMingle recommendations based on users' interests or past attendance, facilitating the discovery of events that align with individual preferences.

To conclude, EventMingle management system web applications play a vital role in fostering enjoyable and accessible EventMingle experiences for all participants. With the right security measures in place, they serve as invaluable tools in the EventMingle planning industry, enabling seamless communication, efficient organization, and a more connected and engaging EventMingle ecosystem. With the ongoing advancements in technology, these applications hold the potential to revolutionize the EventMingle management landscape even further. They have the capacity to enhance the entire process of planning, attending, and

enjoying events for individuals from diverse backgrounds and interests.

VIII. FUTURE WORK

The future of Event Management Systems is exciting as these systems continue to evolve and improve to meet public interests. Here are some potential areas for future work in Meet-In Event Management systems:

Integrate emerging technologies like virtual and augmented reality into event management system web applications.

Incorporating blockchain technology into event management systems.

AUTHORS' CONTRIBUTION

Prof. Madhavi Waghmare abstracted the research, conducted the interview, and prepared the draft transcript. Dr. Archana Ekbote worked on the literature review. Ms. Anagha Patil worked on collection of industry information. Ms. Vaishali Shirsath worked on validation and revised the draft. All the authors collectively finalized the article.

CONFLICT OF INTEREST

The authors certify that they have no affiliations with or involvement in any organization or entity with any financial interest or non-financial interest in the subject matter or materials discussed in the manuscript.

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REFERENCES

- [1] Maha Mahmoud, "Celebreno: A web application for event planning using ASP.net," Caledonian College of Eng, Oman, 2019, doi: 10.13140/RG.2.2.13892.78729.
- [2] B. K. Nirupama and N. Mahitha, "College event management system," *Int. J. Scientific Res. Eng. Manage.*, vol. 3, pp. 958–965, 2016, doi:10.55041/IJSREM25182.
- [3] R. G. Revilla, O. M. Moure, and C.S. Einsle, "Advances in event management using new technologies and mobile applications," *Int. J. Event Festival Manage.*, vol. 14, no. 1, pp. 56–72, doi: 10.1108/IJEFM-05-2022-0039.
- [4] S. N. Malode, U. Y. Kotkar, P. S. Mogal, D. R. Baravkar and N. L. Bhale, "Review on event management system," *Int. J. Adv. Res. Sci. Communication Technol.*, vol. 2, no. 2, Dec. 2022, doi: 10.48175/IJARSCT-7747.
- [5] A. Pansare, A. Patil, N. Patil, Y. Patil, and A. Bhonde, "Smart college event management system using MERN Stack," *Int. J. Res. Appl. Sci. Eng. Technol.*, vol. 11, no. 3, Mar. 2023, doi:10.22214/ijraset.2023.49875.
- [6] M. Ettappan, V. Vimala, S. K. Subburaj, C. K. Sarma, and J. E. Prabhu, "Smart event management system using Pega," *Advances Intell. Appl. Innovative Approach*, vol. 2581, no. 1, Jun. 2023, doi:10.1063/5.0127514.
- [7] P. S. JosephNg, S. M. Al-Sofi, K. Y. Phan, J. T. Lim, and S. C. Lai, "Design of a web-based platform: Event-venues booking and management system," in *Pervasive Comput. Social Netw. Lecture Notes in Netw. Sys.*, vol. 475, G. Ranganathan, R. Bestak, X. Fernando, Eds. Springer, Singapore., pp. 451–461, Sep. 2022, doi:10.1007/978-981-19-2840-6_35.
- [8] S. Yucel and N. Anerousis, "Event aggregation and distribution in web-based management systems," *Integrated Netw. Manage. VI. Distribut. Manage. Networked Millennium. in Proc. 6th IFIP/IEEE Int. Symp. Integr. Netw. Manage. (Cat. No.99EX302)*, Boston, MA, USA, 1999, pp. 35–48, doi: 10.1109/INM.1999.770673.
- [9] K. Ahmad, A. A. Abdullah, and A. M. Zeki., "Web-based conference management system for higher learning institutions," in *2012 Int. Conf. Adv. Comput. Sci. Appl. Technologies*, Kuala Lumpur, Malaysia, 2012, pp. 340–343, doi: 10.1109/ACSAT.2012.22.
- [10] W. A. Pongpech., "A distributed data mesh paradigm for an event-based smart communities monitoring product," *Procedia Comput. Sci.*, vol. 220, pp. 584–591, doi:10.1016/j.procs.2023.03.074.
- [11] J. P. Bolacoy and E.L.P. Pajota, "An event management information system with smart budgeting using apriori algorithm: A project development plan," *Int. J. Adv. Trends Comput. Sci. Eng.*, doi: 10.30534/ijatcse/2023/041222023.
- [12] Y. Wen and F. Wang, "Design and application of major sports events management information system based on integration algorithm," *Hindawi Comput. Intell. Neuroscience*, vol. 2022, Art. no. 6480522, doi: 10.1155/2022/6480522.
- [13] S. Samanth, "IoT based event management system using RFID," Jul. 2021, doi:10.2139/ssrn.3918249.
- [14] N. Sukhija, E. Bautista, O. James, D. Gens, S. Deng, Y. Lam, T. Quan, B. Lalli, "Event management and monitoring framework for HPC environments using ServiceNow and Prometheus," in *Proc. 12th Int. Conf. Manage. Digital EcoSystems (MEDES '20)*, Assoc. Comput. Machinery, New York, NY, USA, pp. 149–156, Nov. 2020, doi: 10.1145/3415958.3433046.
- [15] B. Goswami, M. Kalita, R. U. Hussain, and N. Mukhopadhyay, "A cloud-hosted advanced event management system for secure event organization and management around the north-east part of India," *Int. Pervasive Comput. Social Netw. Lecture Notes in Netw.*

Res. J. Eng. Technol, vol. 8, no. 6, pp. 615–622, Jun. 2021. [Online]. Available: <https://www.irjet.net/archives/V8/i6/IRJET-V8I6113.pdf>

[16] E. ADETIBA and M. SEREM, “Page ConfBits: A web based conference management system,” *Int. J. Eng. Sci. Invention*, vol. 2, no. 7, pp. 92–100, Jul. 2013.

[17] J. M. R., Shanmugam, P. Thirunavukarasu, and T. Ragunathan, “Event management system on web platform,” *Int. J. Creative Res. Thoughts*, Mar. 2018.

[18] A. Hussein and R. Mohamed., “Feasibility study for developing an event prioritizing system using CMSs,” *Int. J. Intell. Syste. Applic. Eng.*, vol. 11, no. 1S, pp. 30–45, 2023. [Online]. Available: <https://ijisae.org/index.php/IJISAE/article/view/2474>

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