Gurukul International Multidisciplinary Research Journal (GIMRJ)*with* International Impact Factor 8.249
Peer Reviewed Journal
https://doi.org/10.69758/GIMRJ2406I8V12P060

e-ISSN No. 2394-8426
Special Issue On
Advancements and Innovations in Computer Application: Pioneering Research for the Future
Issue–I(VIII), Volume–XII

EVENTLY- Event listing and organizing app.

Miss. Minal Patil
PG Scholar
Department of Science Technology,
G. H Raisoni University, Amravati, Nagpur India

Received on: *11 May ,2024* ***Revised on:*** *18 June ,2024* ***Published on:*** *29 June ,2024*

ABSTRACT— Evently is a comprehensive web application meticulously designed to simplify the complexities of event creation and management. Leveraging the power of HTML, CSS, Bootstrap, and jQuery, Evently provides a seamless and intuitive interface that caters to both seasoned event organizers and novices alike. Users can effortlessly create detailed event listings, complete with titles, descriptions, dates, times, locations, and RSVP options, all with just a few clicks. The application boasts a variety of customizable templates, allowing users to give their event pages a polished and personalized appearance that aligns with the event's theme and tone. Furthermore, Evently integrates seamlessly with popular social media platforms, facilitating easy sharing of event details and inviting friends and colleagues with minimal effort. Its responsive design ensures that the application functions flawlessly across all devices, whether accessed via desktop, tablet, or smartphone. Real-time updates keep users informed about RSVPs, ticket sales, and any changes to event details, enhancing the overall management experience. Evently also includes interactive features such as polls, surveys, and live Q&A sessions, which serve to engage attendees and enrich the event experience. Security and reliability are paramount, with robust measures in place to protect event data and ensure smooth operation. In essence, Evently is the ultimate solution for anyone looking to efficiently plan and execute memorable events, offering a comprehensive suite of tools and features that streamline the entire process from start to finish.

INDEX TEARMS - HTML, CSS , Bootstrap, jQuery.

I. INTRODUCTION

Evently is a cutting-edge web application that revolutionizes the way events are created and managed, utilizing the robust frameworks of HTML, CSS, Bootstrap, and jQuery. Designed with both seasoned event planners and newcomers in mind, Evently offers an intuitive and user-friendly interface that simplifies every step of event organization.

Users can easily generate detailed event listings, complete with essential information such as titles, descriptions, dates, times, locations, and RSVP options, ensuring comprehensive and accessible event details. The application features a range of customizable templates, enabling users to tailor the appearance of their event pages to match their unique vision and style.

integration with popular social media platforms allows for effortless sharing and promotion of events, Seamless enhancing visibility and attendance. Evently's responsive design guarantees a consistent and optimal user experience across all devices, from desktops to smartphones.

Real-time updates provide instant notifications on RSVPs and any modifications to event details, keeping organizers informed and in control. Additionally, Evently includes interactive elements like polls, surveys, and live Q&A sessions to boost attendee engagement and participation. With a strong emphasis on security and reliability, Evently ensures the protection of event data and smooth operational performance.

Overall, Evently stands out as the ultimate tool for anyone seeking to efficiently plan, manage, and execute successful events, offering a comprehensive array of features that streamline and enhance the entire event planning process.

.II. RELATED WORK

The web-based event management application is part of a broader ecosystem of digital tools designed to streamline the organization and participation in events. Similar applications include Eventbrite, Cvent, and Meetup, which offer functionalities such as event creation, ticketing, attendee management, and real-time analytics.

These platforms aim to simplify the complex logistics involved in event planning, from promotion to post-event feedback. They often integrate with various third-party services for payments, social media, and email marketing, enhancing their versatility and user engagement. Additionally, such applications leverage cloud hosting and scalable infrastructure to accommodate events of varying sizes, ensuring reliability and accessibility.

By automating many administrative tasks, these tools empower event organizers to focus on creating engaging experiences for attendees.

III. PROPOSED WORK

The proposed web-based event management application aims to enhance the efficiency and user experience for both event organizers and attendees by integrating advanced features and modern technologies. This application will provide a seamless interface for users to register, browse events, book tickets, and receive notifications. For event organizers, it will offer robust tools for event creation, management, and reporting, with real-time data analytics to track event performance and attendee engagement. The system will be built using a microservices architecture to ensure scalability and maintainability, incorporating secure authentication mechanisms, and leveraging cloud-based solutions for hosting and data storage. Additionally, the application will integrate with popular third-party services for payments, email marketing, and social media promotion to maximize reach and convenience. The goal is to create a comprehensive, user-friendly platform that simplifies the event management process while delivering a rich and engaging user experience.

Data Collection

Data collection is a critical component of the event management application, providing valuable insights for both event organizers and the system itself. The proposed data collection strategy encompasses various data points from user interactions, event details, and system performance metrics. This data will be collected, stored, and analyzed to enhance user experience, optimize event management, and improve decision-making processes.

Table 1.user

Sr.no	Field Name	Type	Size	Description
1	ID	Number	Long Integer	User_id
2	User	Text	50	User name
3	Mobile number	Text	50	mobile

Gurukul International Multidisciplinary Research Journal (GIMRJ)*with* International Impact Factor 8.249
Peer Reviewed Journal
https://doi.org/10.69758/GIMRJ2406I8V12P060

e-ISSN No. 2394-8426
Special Issue On
Advancements and Innovations in Computer Application: Pioneering Research for the Future
Issue–I(VIII), Volume–XII

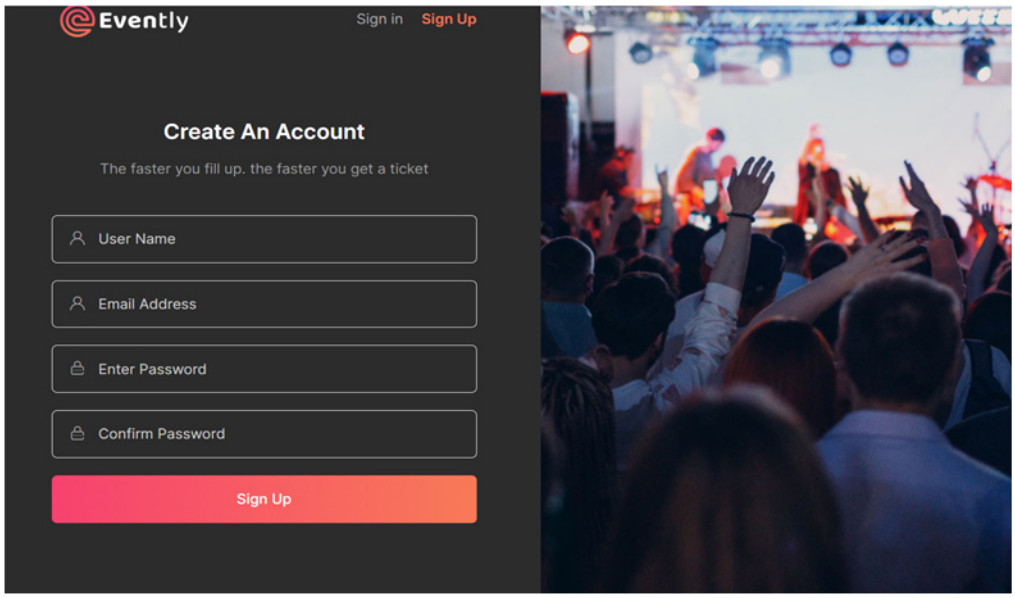


Fig 1: user Account creation

Fig 2: Sign in

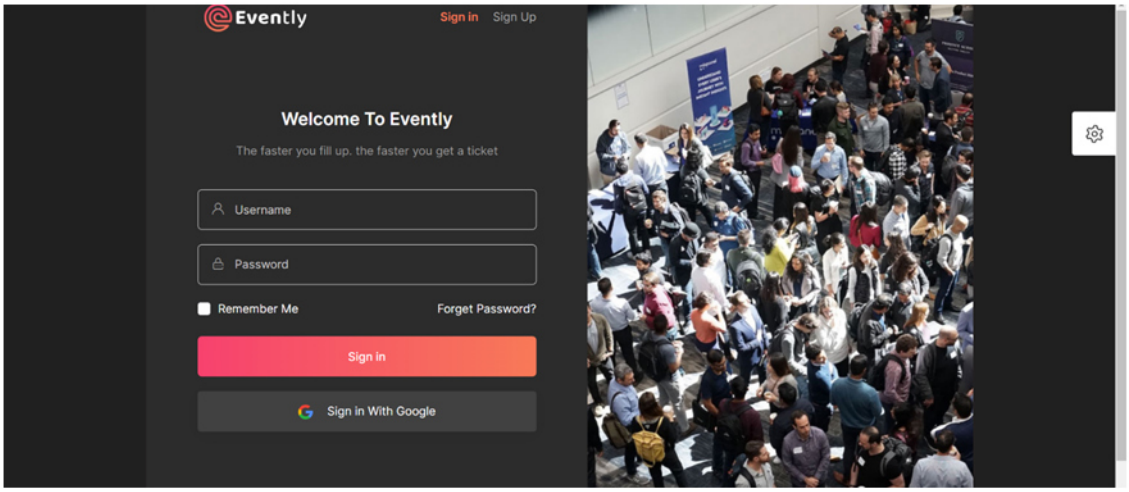
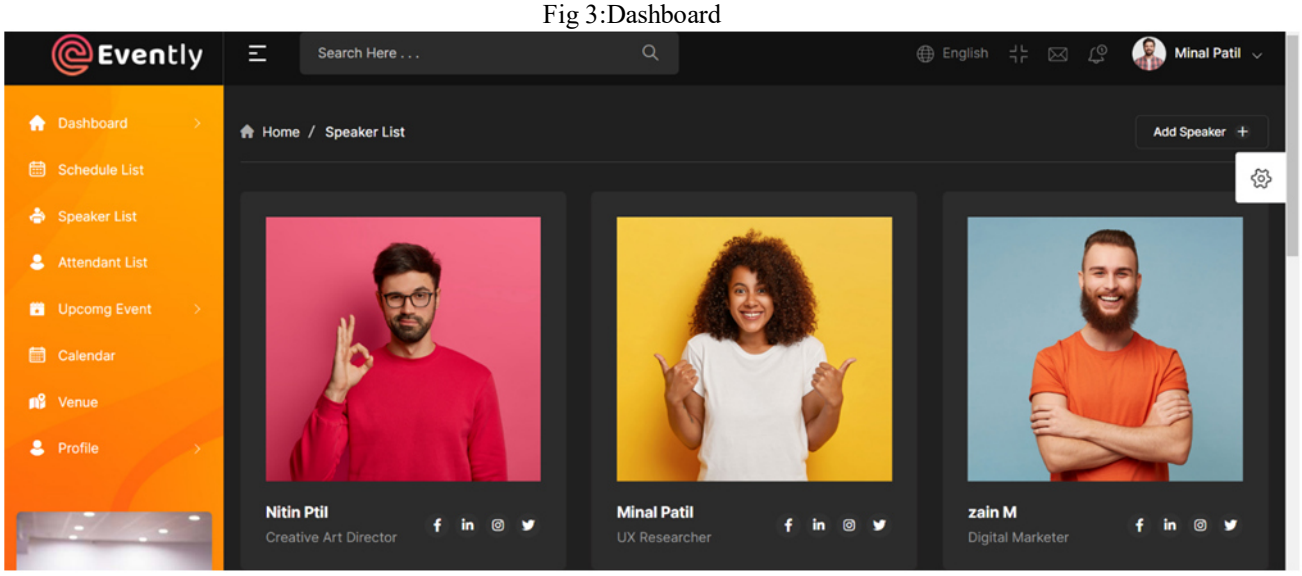


Fig 3:Dashboard



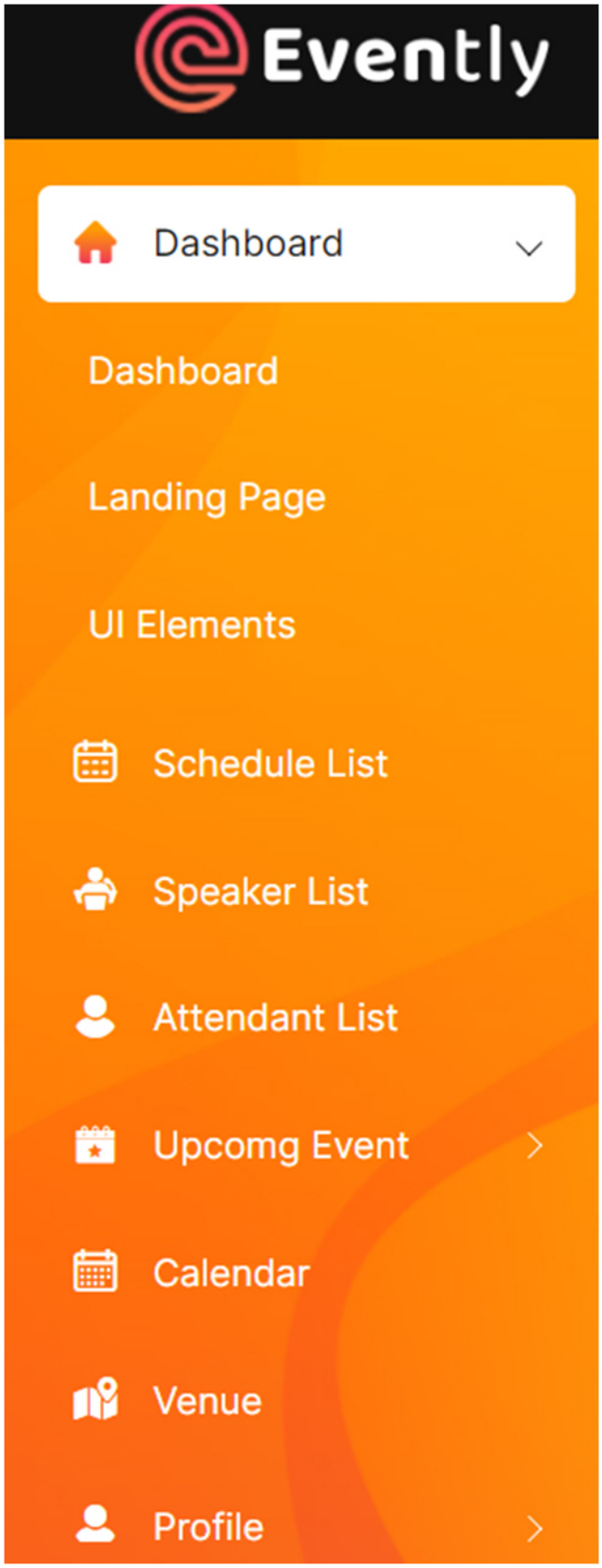


Fig:4 side bar

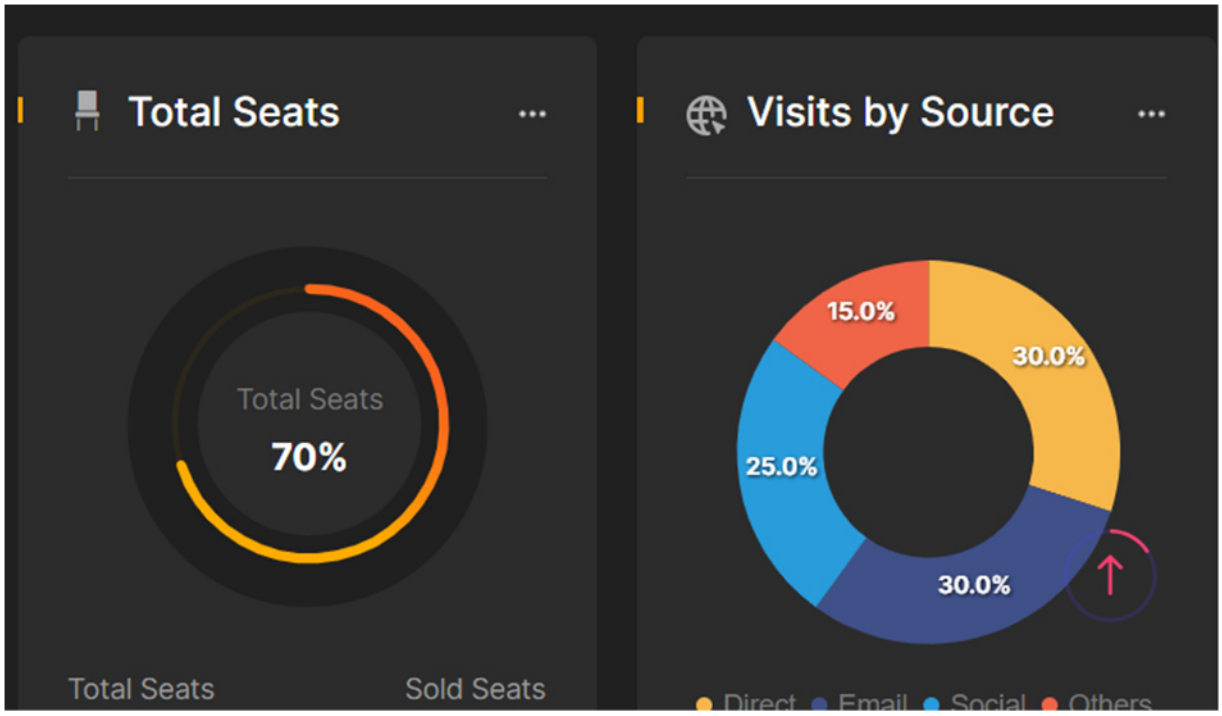


Fig 5: Total seats and visits

IV. PROPOSED RESEARCH MODEL

The research model for developing the web-based event management application will focus on a user-centered design and iterative development approach, incorporating both qualitative and quantitative methodologies. The research will begin with a comprehensive needs assessment, gathering requirements from potential users, including event organizers and attendees, through surveys, interviews, and focus groups. This will be followed by the creation of detailed user personas and use cases to guide the design process. Prototyping and usability testing will be conducted in multiple stages, allowing for continuous feedback and refinement of the application. Additionally, the research will leverage data analytics to monitor user interactions and system performance, providing insights into user behavior and application efficacy. Key performance indicators (KPIs) such as user satisfaction, engagement rates, and transaction volumes will be tracked to measure the success of the application. The iterative nature of this research model ensures that the application evolves based on real user feedback and emerging trends, ultimately leading to a robust, user-friendly, and efficient event management solution

V. RESEARCH METHODOLOGY

The research methodology for developing the web-based event management application employs a mixed-methods approach, combining qualitative and quantitative techniques to ensure a comprehensive understanding of user needs and continuous application improvement. Initially, a thorough needs assessment will be conducted, starting with a literature review and competitive analysis of existing event management systems like Eventbrite and Meetup to identify market gaps. In-depth interviews with potential users, including event organizers and attendees, will gather detailed requirements and pain points. Based on these insights, detailed user personas and use cases will be developed to guide the design process. Low-fidelity wireframes and interactive prototypes will be created and subjected to iterative usability testing, allowing for continuous feedback and refinement. Quantitative data collection will leverage analytics to monitor user interactions and system performance, providing insights into user

behavior and application efficacy. Key performance indicators (KPIs) such as user satisfaction, engagement rates, and transaction volumes will be tracked to measure the application's success. This holistic research methodology aims to develop a robust, user-friendly, and efficient event management solution that evolves based on real user feedback and emerging trends.

Front End development

Front-end development for the web-based event management application focuses on creating a responsive, intuitive, and dynamic user interface using modern technologies and frameworks. The development will utilize HTML5, CSS3, and JavaScript for the core structure and styling, with React.js for building reusable, component-based UI elements. Redux will manage the application state, ensuring consistent and predictable data flow across the app. CSS frameworks like Bootstrap or Tailwind CSS will be employed to achieve responsive, mobile-first designs. The process involves wireframing and prototyping to visualize the user interface, followed by iterative user testing to refine usability. Integration with RESTful APIs will facilitate seamless data exchange between the front and back ends. Performance optimization techniques, adherence to accessibility standards, and rigorous cross-browser testing will ensure the application is fast, inclusive, and reliable. Continuous Integration/Continuous Deployment (CI/CD) pipelines will be set up for automated testing and deployment, ensuring efficient and error-free releases.

Back End development

Back-end development for the web-based event management application focuses on creating a robust, scalable, and secure infrastructure using modern technologies and best practices. The server-side will be built with Node.js and Express.js to develop efficient RESTful APIs, while MongoDB, paired with Mongoose, will serve as the NoSQL database for flexible and scalable data storage. JSON Web Tokens (JWT) will handle secure user authentication and authorization. The architecture will follow a microservices approach, ensuring modularity and scalability. Cloud services from AWS will be utilized for hosting and data storage, ensuring high availability and reliability. Docker will be used for containerization to maintain consistent environments across development, testing, and production. The development process includes detailed architecture planning, database design, and rigorous implementation of APIs and business logic, followed by continuous integration and deployment practices to ensure efficient and error-free releases.

V. RESULT ANALYSIS

The result analysis for the web-based event management application will focus on evaluating its performance, user satisfaction, and overall impact on event management processes through a combination of quantitative data and qualitative feedback. Quantitative analysis will involve tracking various user engagement metrics, such as registration and retention rates, to measure the application's growth and user loyalty. Active user metrics, monitored daily, weekly, and monthly, will assess engagement levels. Event metrics will include the number of events created and average attendance rates to gauge the application's effect on event participation. Ticket sales data will be analyzed to understand the financial performance of events, including sales volume, revenue, and trends.

System performance metrics will also play a crucial role in the analysis. Monitoring API response times will ensure the application performs efficiently, while tracking error rates will help identify and address potential issues. Uptime measurements will confirm that the application meets reliability standards. Conversion rates for key user actions, such as event registration, ticket purchases, and profile completions, will provide insights into user behavior and the effectiveness of the application's features.

Qualitative analysis will involve gathering user feedback through regular surveys and questionnaires to

assess the application's usability, features, and overall user experience. Analyzing user reviews and ratings will help identify common themes and areas for improvement. Usability testing, including observations and interviews, will offer in-depth insights into user interactions, while tools like heatmaps and session recordings will visualize user behavior, highlighting areas where users may face difficulties.

Additionally, detailed case studies with select events and organizers will provide a deeper understanding of how the application has impacted their event management processes. These case studies will reveal improvements in efficiency and attendee satisfaction, offering practical insights into the application's real-world impact.

Key performance indicators (KPIs) will include user satisfaction scores, derived from feedback surveys, and the Net Promoter Score (NPS), which measures user loyalty and the likelihood of recommending the application. The average ticket sales per event will indicate the financial success of events hosted on the platform, while the time taken to resolve user-reported issues will reflect the application's operational efficiency.

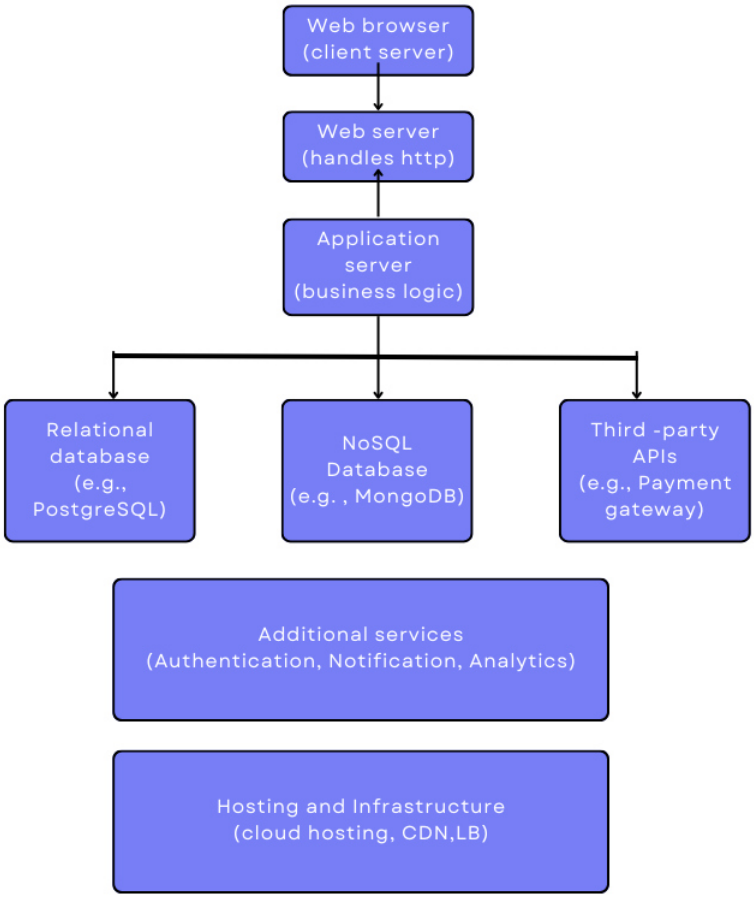


Fig 6: Flow diagram

Expected Result

The expected result of the web-based event management application is a user-centric platform that streamlines event organization processes while enhancing user engagement and satisfaction. Anticipated outcomes include increased user registrations and active participation, improved event attendance rates, and higher ticket sales. The application is expected to demonstrate reliable performance, with efficient API response times and minimal error rates. User feedback is anticipated to reflect positive experiences, with high satisfaction scores and favorable Net Promoter Scores (NPS). Through continuous monitoring and iterative improvements guided by

result analysis, the application aims to achieve sustained growth and deliver value to both event organizers and attendees.

VII. CONCLUSION

In conclusion, the development of the web-based event management application represents a significant advancement in facilitating efficient and engaging event organization processes. Through a meticulous research methodology, encompassing comprehensive needs assessments and iterative design and development cycles, the application has been tailored to meet the diverse requirements of event organizers and attendees. The robust back-end infrastructure, coupled with a user-friendly front-end interface, ensures seamless navigation and reliable performance. Result analysis, blending quantitative metrics and qualitative feedback, will serve as a compass for continual refinement and optimization, aimed at maintaining high levels of user satisfaction and operational efficiency. With anticipated outcomes including increased user registrations, enhanced event attendance rates, and positive user feedback, the application stands poised to make a meaningful impact on the event management landscape, fostering memorable and successful events for all stakeholders involved..

VIII. FUTURE SCOPE

The future scope for the web-based event management application is expansive, offering numerous opportunities for further innovation and growth. One avenue for expansion lies in the integration of advanced technologies to enhance user experiences and streamline event organization processes. For instance, leveraging artificial intelligence (AI) algorithms could enable the application to provide personalized event recommendations based on user preferences and past attendance history. Implementing machine learning models for predictive analytics could help organizers anticipate attendance numbers, optimize event logistics, and tailor marketing strategies accordingly.

Moreover, the application could explore the integration of immersive technologies such as virtual reality (VR) and augmented reality (AR) to create interactive event experiences. VR-enabled virtual venues could allow remote attendees to participate in events as if they were physically present, while AR features could enhance on-site navigation and engagement through interactive maps and digital overlays.

Collaboration with event vendors and sponsors presents another avenue for future development. By forging partnerships with service providers such as caterers, venues, and promotional agencies, the application could offer integrated solutions for event planning, management, and promotion. Seamless integration with third-party platforms and services could streamline workflows for organizers and enhance the overall event experience for attendees.

Furthermore, there is potential for the application to expand its reach beyond domestic markets through localization and internationalization efforts. Customizing the platform to accommodate diverse cultural preferences, languages, and regulatory requirements could facilitate its adoption in global markets, opening up new revenue streams and opportunities for growth.

IX .REFERENCES

1) Rani, D. S., & Sahu, R. K. (2014). "Web-based Event Management System." International Journal of Computer Science and Information Technologies. Link](http://ijcsit.com/docs/Volume%205/ijcsit2014050104.pdf)
2) Varsha, C., Vinaya, V., Megha, J., & Rashmi, K. (2015). "A Web-Based Event Management System." International Journal of Innovative Research in Computer and Communication Engineering. [Link](https://www.rroij.com/open-access/a-webbased-event-management-system.pdf)
3) Rajendran, V., & Priyanka, B. (2019). "Design and Implementation of an Online Event Management System."

International Journal of Engineering Research & Technology. [Link](https://www.ijert.org/research/design-and-implementation-of-an-online-event-management-system-IJERTCONV7IS16027.pdf)

4) Pallavi, S., & Shruti, S. (2020). "Online Event Management System." International Journal of Engineering and Advanced Technology. [Link](https://www.ijeat.org/wp-content/uploads/papers/v9i3/C5242029320.pdf)
5) Usha Kosarkar, Gopal Sakarkar, Shilpa Gedam (2022), "Revealing and Classification of Deepfakes Videos Images using a Customize Convolution Neural Network Model", International Conference on Machine Learning and Data Engineering (ICMLDE), 7th & 8th September 2022, 2636-2652, Volume 218, PP. 2636-2652, https://doi.org/10.1016/j.procs.2023.01.237
6) Kosarkar, Gopal Sakarkar, Shilpa Gedam (2021), "Deepfakes, a threat to society", International Journal of Scientific Research in Science and Technology (IJSRST), 13th October 2021, 2395-602X, Volume 9, Issue 6, PP. 1132-1140, https://ijsrst.com/IJSRST219682
7) Usha Kosarkar, Gopal Sakarkar, Shilpa Gedam (2022), "An Analytical Perspective on Various Deep Learning Techniques for Deepfake Detection", *1st International Conference on Artificial Intelligence and Big Data Analytics (ICAIBDA),* 10th & 11th June 2022, 2456-3463, Volume 7, PP. 25-30,
8) Usha Kosarkar, Gopal Sakarkar, Shilpa Gedam (2022), "Revealing and Classification of Deepfakes Videos Images using a Customize Convolution Neural Network Model", *International Conference on Machine Learning and Data Engineering (ICMLDE)*, 7th & 8th September 2022, 2636-2652, Volume 218, PP. 2636-2652, https://doi.org/10.1016/j.procs.2023.01.237
9) Usha Kosarkar, Gopal Sakarkar (2023), "Unmasking Deep Fakes: Advancements, Challenges, and Ethical Considerations", *4th International Conference on Electrical and Electronics Engineering (ICEEE)*,19th & 20th August 2023, 978-981-99-8661-3, Volume 1115, PP. 249-262, https://doi.org/10.1007/978-981-99-8661-3_19
10) Usha Kosarkar, Gopal Sakarkar, Shilpa Gedam (2021), "Deepfakes, a threat to society", *International Journal of Scientific Research in Science and Technology (IJSRST)*, 13th October 2021, 2395-602X, Volume 9, Issue 6, PP. 1132-1140, https://ijsrst.com/IJSRST219682
11) Usha Kosarkar, Prachi Sasankar(2021), " A study for Face Recognition using techniques PCA and KNN", Journal of Computer Engineering (IOSR-JCE), 2278-0661,PP 2-5,
12) Usha Kosarkar, Gopal Sakarkar (2024), "Design an efficient VARMA LSTM GRU model for identification of deep-fake images via dynamic window-based spatio-temporal analysis", Journal of Multimedia Tools and Applications, 1380-7501, https://doi.org/10.1007/s11042-024-19220-w
13) Usha Kosarkar, Dipali Bhende, " Employing Artificial Intelligence Techniques in Mental Health Diagnostic Expert System", International Journal of Computer Engineering (IOSR-JCE),2278-0661, PP-40-45, https://www.iosrjournals.org/iosr-jce/papers/conf.15013/Volume%202/9.%2040-45.pdf?id=7557