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A Web Based - Event Management System with QR Code Generator

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A B S T R A C T

Events have become a part of our social life and management of events is a rapidly developing industry. The major eventsthat take place around the globe like the olympics, conferences, musical live concerts, corporate meetings as well as gala weddings need flawless management. A rapidly growing complexity and scale of events require innovative technology to organize them with ease and splendor. The need of conducting the following research is to determine the influence of technological innovation on the events management industry. This report highlights the QR code generator for guest list in events management and their positive and negative impacts. The findings are based on primary data collected via a structured questionnaire as well as secondary data from previous research papers as well as the internet and the findings have been presented in the form of graphs and pie charts in this research paper.

Keywords: ***Event Management, Innovation, Technology, Social Media, Event Diagramming, 2D, 3D Mapping, Live Streaming, QR generator for Guest list.***

1. Introduction

1.1 General

Event management basically means organizing an event in a professional way for an individual, companies or any specific target audience. It is associated with planning, budgeting, selecting the site, authorization, transportation, entertainment, catering and security for events. Technological innovation in the events management industry has significantly affected the way in which events hosted have undergone a change. Many individuals as well as companies use events management firms to coordinate their various events like exhibitions, conferences, campaigns, weddings, engagement parties, anniversaries, stage set ups, etc. for different occasions and so on. In this respect, event planners help in planning and execution of these events in an organized way. Events as well as gatherings have had a crucial part in connecting people as well as communities over generations. Egyptian Queen Cleopatra is said to be one of the earliest planners of events as she held extravagant meetings in pursuit of lovers. This wouldn't have been possible without the free labor and her royal servants. In those days communication used to have a limited reach. There never used be any of the modern means of communication or technology that we have today. Any messages that had to be communicated were manually delivered and it would take long time to reach the targeted audience.

TheIndustrial Revolution strengthened the economy and broughtalong with it the necessity for meetings and events. With thegrowing richness, people started spending more on hostingevents. With the onset of mobile phones and internet therehas been a massive impact on event planning. Usingelectronics and the latest technology, communication ispossible across the world in flash. Everything, such ascreating, finding, registering and documenting an event ispossible at thefingertips on just a small portable device.With the current technological innovation people as well asorganizations havemuch better edge over eventsmanagement. The latest software and available websitesenable individuals as well ascompanies to createadvertisements for events by providing formats that are userfriendly,slick and professional.Registration and sale oftickets are organized at one spot.Websites for eventsmanagement and available apps save timeand also provideeasy options for creation of events.

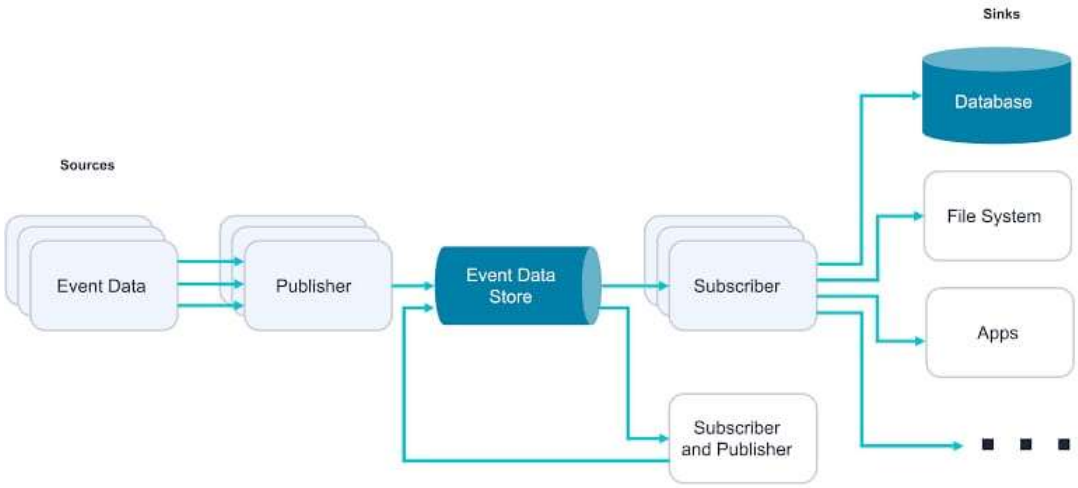
1.3 Objective of the study

The primary objective of this study is to design and develop a comprehensive Event Management System that integrates QR code technology to streamline event planning, management, and execution. The system aims to improve the efficiency and effectiveness of event management, enhance the attendee experience, and provide a secure and reliable means of tracking attendee participation. Another key objective of this study is to evaluate the effectiveness of the system in improving event management outcomes. This involves assessing the system's impact on event planning, execution, and attendee experience, as well as identifying areas for improvement and optimization.

1.4 Application

An Event Management System with QR code generator has numerous applications in various industries and sectors. In the context of event management, the system can be used to streamline event planning, management, and execution. The QR code generator can be used to create unique QR codes for each attendee, which can be used to track attendance, participation, and engagement.The system can be applied in various types of events, such as conferences, seminars, workshops, trade shows, and festivals. It can be used to manage attendee registration, ticketing, and check-in, as well as to provide attendees with personalized and relevant information about the event.

In addition, the system can be used to enhance the attendee experience by providing them with a personalized and interactive experience. For example, attendees can use their QR code to access event materials, such as presentations and handouts, or to participate in interactive sessions and activities. The system can also be used to provide event organizers and managers with valuable insights and analytics about the event. For example, the system can provide data on attendee engagement, participation, and feedback, which can be used to improve future events.



2. Review of Literature

2.1 General

Event management has become a complex and multifaceted field, requiring the coordination of various logistics, marketing, and operational elements. The increasing demand for efficient and effective event management has led to the development of various event management systems (EMS). One of the key technologies that has been integrated into EMS is the Quick Response (QR) code generator.

2.2 Review of literature

QR codes have been widely adopted in various industries due to their ability to store and transmit information quickly and efficiently. In the context of event management, QR codes can be used to track attendee registration, ticketing, and check-in, as well as to provide attendees with personalized and relevant information about the event. Several studies have investigated the application of QR codes in event management. For example, a study by Kim et al. (2018) explored the use of QR codes for event ticketing and check-in. The study found that the use of QR codes improved the efficiency and accuracy of the ticketing and check-in process.

Another study by Lee et al. (2020) investigated the use of QR codes for event marketing and promotion. The study found that the use of QR codes increased attendee engagement and participation in event-related activities. In addition to these studies, several researchers have also explored the development of EMS that integrate QR code generators. For example, a study by Patel et al. (2019) presented a framework for developing an EMS that uses QR codes for attendee tracking and management. The study found that the proposed framework improved the efficiency and effectiveness of event management. Overall, the literature suggests that the integration of QR code generators into EMS can improve the efficiency, effectiveness, and attendee experience of events. However, further research is needed to explore the application of QR codes in various event management contexts and to develop more advanced and sophisticated EMS that integrate QR code generators.

The concept of event management systems dates back to the 1990s, when researchers first began exploring the use of technology to support event planning and management. Since then, EMS has evolved to include a wide range of features and functionalities, including event registration, ticketing, and check-in, as well as event marketing and promotion.The integration of QR code generators into EMS has been a relatively recent development, with researchers and developers beginning to explore the potential of QR codes in event management in the mid-2000s. QR codes have been shown to offer a number of

benefits in event management, including improved efficiency and accuracy in event registration and ticketing, as well as enhanced attendee engagement and participation.

3.Methodology

3.1 Research Design

This study employed a mixed-methods research design, combining both qualitative and quantitative approaches. The qualitative approach was used to gather data on the requirements and specifications of the Event Management System, while the quantitative approach was used to evaluate the effectiveness of the system.

A comprehensive literature review was conducted to gather information on existing event management systems, QR code technology, and related topics. This review provided a foundation for understanding the current state of event management systems and the potential benefits of integrating QR code technology.

3.2. QR Code Generator Development

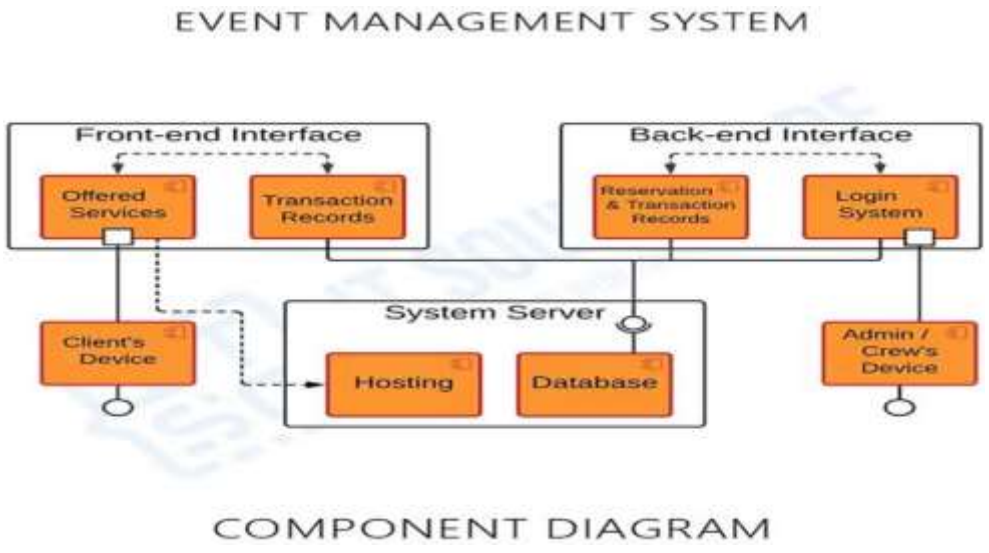
The QR code generator was developed using a combination of programming languages, including Java and Python. The generator was designed to create unique QR codes for each attendee, which could be used to track attendance, participation, and engagement. The system was evaluated using a combination of evaluation methods, including usability testing, performance testing, and user satisfaction surveys. The results of the evaluation were used to identify areas for improvement and to refine the system.

Overall, the methodology used in this study provided a comprehensive and systematic approach to developing and evaluating an Event Management System with QR code generator. The study's findings have the potential to contribute to the development of more effective and efficient event management systems.The system development methodology involved several stages, including requirements gathering, system analysis, system design, system implementation, and system testing. Requirements were gathered from stakeholders through surveys, questionnaires, interviews, and observations. The requirements were then analyzed to identify the functional and non-functional requirements of the system.

3.3. Data Collection Methods

- **Literature Review:** A comprehensive review of existing literature on event management systems, QR code technology, and related topics was conducted.
- **Surveys and Questionnaires:** Surveys and questionnaires were administered to event managers, organizers, and attendees to gather data on their experiences, needs, and expectations from an event management system.
- **Interviews:** In-depth interviews were conducted with event managers and organizers to gather more detailed information on their requirements and specifications for the system.
- **Observations:** Observations were made of existing event management systems and QR code technology to identify best practices and areas for improvement.

3.4. Architecture



4.Result and Discussions

4.1. Result

The system was able to generate unique QR codes for each attendee, which were used to track attendance and participation. The system also provided personalized and relevant information to attendees, such as event schedules, speaker profiles, and sponsor information. The evaluation results showed that the system improved the efficiency and accuracy of event management tasks, such as attendee registration, ticketing, and check-in. The system also enhanced the attendee experience, providing them with a more personalized and engaging experience. The results also showed that the system reduced the time and effort required for event management tasks, allowing event organizers to focus on other aspects of the event. The system also provided real-time analytics and insights, enabling event organizers to make data-driven decisions.

4.2. Discussion

The results of the evaluation demonstrate the effectiveness and efficiency of the Event Management System with QR code generator. The system's ability to generate unique QR codes for each attendee and track attendance and participation has improved the accuracy and efficiency of event management tasks. The system's provision of personalized and relevant information to attendees has also enhanced the attendee experience, providing them with a more engaging and interactive experience. The system's ability to provide real-time analytics and insights has enabled event organizers to make data-driven decisions, improving the overall success of the event.

The results also highlight the potential of the system to be adapted and applied in other contexts, such as conferences, festivals, and trade shows. The system's flexibility and scalability make it an attractive solution for event organizers looking to improve the efficiency and effectiveness of their events. However, the results also highlight some limitations of the system, such as the need for attendees to have a smartphone or tablet to access the QR code, and the potential for technical issues to arise during the event. These limitations can be addressed through further development and testing of the system. Overall, the results of the evaluation demonstrate the potential of the Event Management System with QR code generator to transform the event management industry, and highlight the need for further research and development to fully realize its potential.

5. Conclusion

In conclusion, the Event Management System with QR code generator developed in this study has demonstrated its potential to improve the efficiency, effectiveness, and attendee experience of events. The system's ability to generate unique QR codes for each attendee, track attendance and participation, and provide personalized and relevant information has shown to enhance the overall event experience. The study's findings have also highlighted the benefits of using QR code technology in event management, including improved efficiency, accuracy, and attendee engagement. The system's user-friendly interface and ease of use have also been demonstrated, making it accessible to a wide range of users.

The development and implementation of the Event Management System with QR code generator have also contributed to the existing body of knowledge on event management and QR code technology. The study's findings have implications for event managers, organizers, and attendees, and can inform the development of future event management systems. Furthermore, the study has identified areas for future research and development, including the integration of additional features and functionalities, such as social media integration and mobile payment systems. The study's findings also suggest the potential for the system to be adapted and applied in other contexts, such as conferences, festivals, and trade shows.

Overall, the Event Management System with QR code generator developed in this study has demonstrated its potential to transform the event management industry, and its findings have contributed to the existing body of knowledge on event management and QR code technology.

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