iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 11 **Issue:** IV **Month of publication:** April 2023

DOI: https://doi.org/10.22214/ijraset.2023.50392

www.ijraset.com

Call: 08813907089 | E-mail ID: ijraset@gmail.com

International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 11 Issue IV Apr 2023- Available at www.ijraset.com

Ticketless Entry for Monuments & Museums

Mr. Monal Bhiwgade[1], Mr. Rohit Dambale[2], Mr. Shreyas Ambadkar[3], Mrs. Shreejika Raja[4], Mrs. Komal Sawalakhe[5], Prof. S.R. Gudadhe[6], Dr. V. K. Shandilya[7].

[1, 2, 3, 4, 5]*Students, Computer Science & Engineering, Sipna College of Engineering & Technology, Amravati*

[6]*Associate Professor, Computer Science & Engineering, Sipna College of Engineering & Technology, Amravati*

[7]*H.O.D, Computer Science & Engineering, Sipna College of Engineering & Technology, Amravati*

Abstract: ***The traditional method of booking tickets for monuments and museums involves lengthy lines and the inconvenience of carrying printed tickets. Ticketless booking has grown in popularity among visitors since the advent of technology. This paper examines the existing literature on ticketless entry for monument and museum booking, highlighting the different technologies used and their effect on user experience.***

Keywords: ticketing, museums, monuments, digital, system, visitors, entry, solutions, experience.

I. INTRODUCTION

The museums and monuments are symbols of culture that attract millions of visitors worldwide each year. Traditional ticketing systems for these attractions, on the other hand, can be time-consuming, inconvenient, and frustrating for visitors. Visitors are frequently required to stand in long lines to buy tickets, and tangible tickets can be lost or stolen, causing inconvenience and delays. We suggest an innovative solution to these challenges in this paper: ticketless entry via a website.

The primary goal of our research is to investigate digital solutions that can allow ticketless entry to museums and monuments via a website. We will investigate how digital technologies like QR codes and other authentication mechanisms can be used to provide visitors with seamless and secure access to these sites. Our proposed solution aims to provide a more convenient and efficient experience for visitors while also reducing the administrative burden and expenses connected with traditional ticketing systems.

We will give a thorough review of the literature on digital ticketing systems in this paper, as well as case studies of museums and monuments that have implemented ticketless entry via a website. We will also survey museum visitors to learn about their preferences and perceptions of digital ticketing options. Finally, we will discuss the potential benefits and challenges of implementing ticketless entry through a museum and monument website, as well as make recommendations for future studies in this field. Our research aims to contribute to the development of innovative and sustainable solutions for managing museums and monuments and enhancing the visitor experience. We aim to provide insights into the design and implementation of digital solutions for museums and monuments around the world by investigating the potential of ticketless entry via a website.

II. OBJECTIVE

1) To create and build a user-friendly and stable website for digitalizing museum and monument ticketing operations.
2) To allow users to check ticket availability and obtain tickets in the encrypted form of a QR code.
3) To implement a user verification system that only needs authentication when booking tickets.
4) To provide users with an easy-to-understand interface that guides them through the process of purchasing tickets to provide a seamless and hassle-free booking experience.
5) To make it simple for users to postpone or reschedule their tickets, with detailed instructions regarding what to do
6) To meet the various requirements of users, integrate a payment gateway that accepts different modes of payment.
7) Ensure that the website is properly optimized for all devices, including mobile phones and tablets, to provide an identical user interface across all platforms.
8) To put in place strong security measures to safeguard users' personal and financial information, such as encryption and secure data storage.

III. PROBLEM STATEMENT

Traditional museum and monument ticketing systems can be time-consuming, cumbersome, and frustrating for visitors, resulting in long lines and delays. Physical tickets can also be misplaced or stolen, resulting in inconvenience and administrative burdens. Furthermore, the need for manual ticket verification and processing can be costly and resource-intensive for museums and monuments.

©IJRASET: All Rights are Reserved

To address these issues, the purpose of this study is to investigate the feasibility and effectiveness of a website-based ticketless entry system for museums and monuments.

The proposed solution aims to provide a more convenient and efficient experience for visitors while also reducing the administrative burden and costs associated with traditional ticketing systems. We hope to use this research to evaluate the potential benefits and challenges of implementing a website-based ticketless entry system, as well as to make recommendations for the design and implementation of innovative and sustainable cultural attraction management solutions.

IV. LITERATURE REVIEW

A. *Introduction To Digital Ticketing Systems*

1) An overview of the current state of museum and monument ticketing systems
2) The benefits and drawbacks of digital ticketing systems
3) The significance of providing visitors with a seamless and convenient user experience

B. *Ticketing Operations Can Benefit From Digital Solutions*

1) Investigation of various digital ticketing solutions, such as mobile apps, websites, and self-service kiosks
2) Case studies of museums and historical sites that have implemented digital ticketing systems.
3) Evaluation of these solutions' effectiveness in improving the visitor experience and reducing administrative burden

C. *Ticketless Entry using QR Codes*

1) A description of QR codes and their applications in digital ticketing systems.
2) The Benefits of Using QR Codes for Ticketless Entrance.
3) Case studies of museums and monuments that have used QR codes to implement ticketless entry.
4) The effectiveness of QR codes in improving the visitor experience and reducing administrative burden is being assessed.

D. *User Verification Systems*

1) Investigation of various user authentication systems, such as biometric authentication, facial recognition, and ID scanning
2) The benefits and drawbacks of various verification systems.
3) Evaluating the effectiveness of various verification systems in terms of improving security and reducing administrative burden.
4) The importance of user experience and preferences in the design of digital ticketing systems is discussed.
5) Literature review on user experience and preferences for digital ticketing systems in museums and monuments
6) Analysis of survey data on user preferences for digital ticketing solutions.
   The advantages and disadvantages of website-based ticketless entry systems
7) The potential benefits and challenges of implementing a website-based ticketless entry system for museums and monuments are discussed.
8) The potential impact of such a system on visitor experience, administrative burden, and costs are being assessed.
9) User Preferences and Experience.

V. RESEARCH METHODOLOGY

A. *Research Design*

A mixed-methods research design will be implemented in this study, blending both quantitative as well as qualitative methods.

B. *Data Collection Methods*

1) *Literature Review:* To identify key issues, challenges, and potential solutions related to digital ticketing systems for museums and monuments, a comprehensive review of relevant literature will be conducted.
2) *Case Studies:* multiple investigations will be conducted of museums and monuments that have implemented website-based ticketless entry systems. Data will be collected through semi-structured interviews with key stakeholders, observations, and document analysis.
3) *Survey:* Museum visitors will be asked to complete a survey to provide information about their preferences and perceptions of digital ticketing solutions. The survey will be conducted online and will include both closed-ended and open-ended questions.

©IJRASET: All Rights are Reserved

C. *Data Analysis*

1) *Literature Review:* A thematic analysis of the literature will be conducted to identify key themes and issues concerning digital ticketing systems in museums and monuments.
2) *Case Studies:* Case study qualitative data will be analyzed using content analysis to identify key themes and patterns.
3) *Survey:* The survey data will be analyzed with statistical software to generate descriptive and inferential statistics.

D. *Ethical Considerations*

1) *Informed Consent:* Before collecting data, informed consent will be obtained from all participants.
2) *Confidentiality:* Throughout the study, participant confidentiality will be maintained.
3) *Ethical Approval:* Before collecting data, the relevant research ethics committee will obtain ethical approval.

E. *Limitations*

The findings of the study will be restricted to the specific contexts of the museums and monuments studied and may not be generalizable to other cultural attractions. The survey's sample size may be limited as well due to the difficulty of reaching a large and diverse sample of museum visitors.

F. *Future Directions*

The findings of the study will be used to develop recommendations for the design and implementation of website-based ticketless entry systems for museums and monuments. Future research could concentrate on assessing the effectiveness and sustainability of these systems in various cultural attraction contexts.

G. *Proposed System*

A mixed-methods research design will be used in this study to investigate the feasibility and effectiveness of a ticketless entry system for museums and monuments. The research design will include techniques for collecting and analyzing qualitative as well as quantitative information. Online surveys and in-person interviews with museum and monument visitors will be used to collect data. User Preferences and experiences with digital ticketing systems will be the focus of the survey questions and interview protocol. The survey data will be analyzed using descriptive and inferential statistical analyses, while the interview data will be analyzed using thematic analysis. Informed consent, confidentiality, and data security will all be followed in accordance with ethical guidelines and regulations. The study's limitations will be discussed, as the implications for future research in the field of digital ticketing systems for cultural attractions will be explored.

VI. SOFTWARE REQUIREMENT

1) PHP7.4 or Greater
2) XAMPP
3) VS code

VII. CONCLUSION

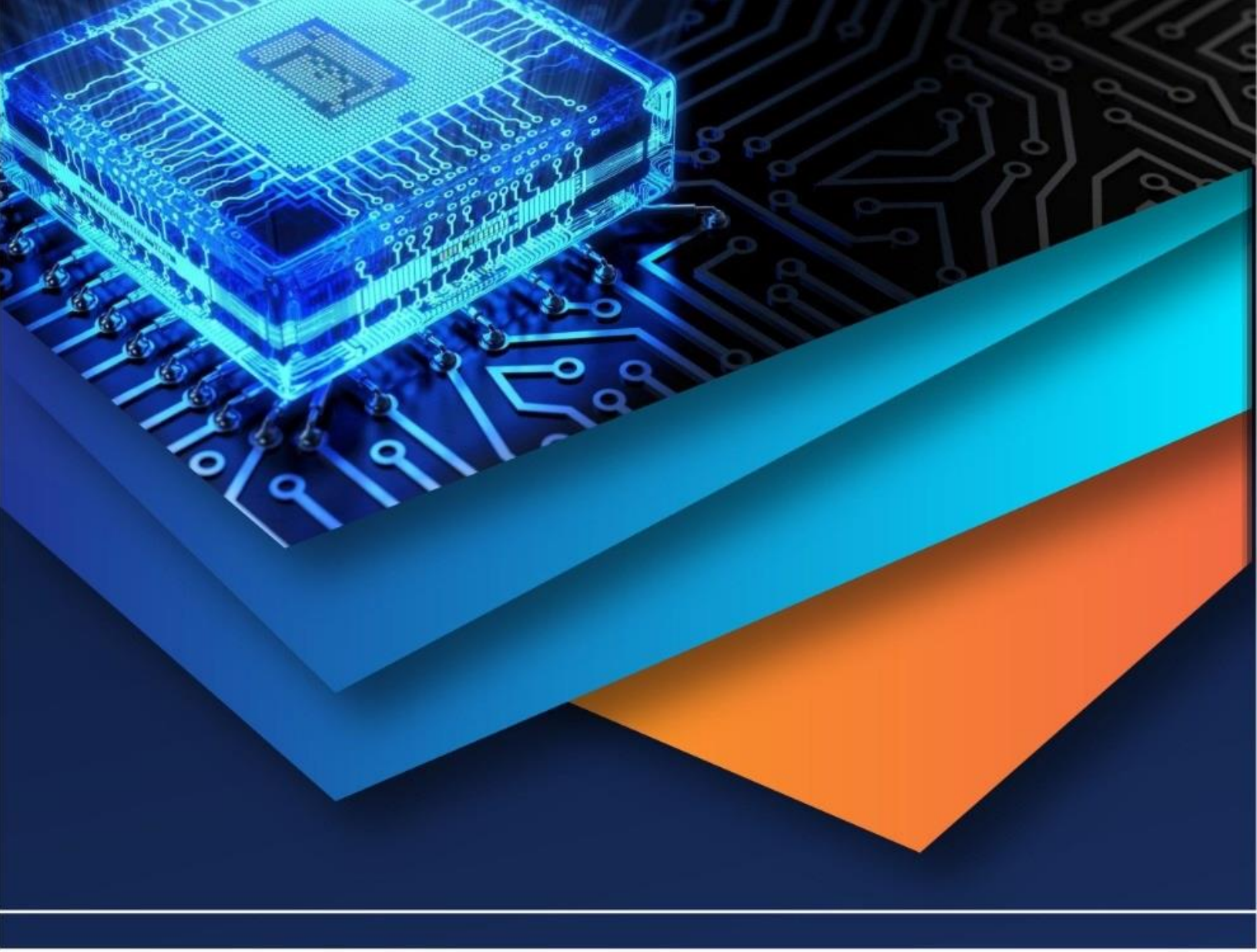
Ticketless entry to monuments and museums benefits the tourism business. Technology has enhanced the user experience by reducing the time required for ticket booking and eliminating the need for printed tickets. The implementation of a QR code provides a system for the validation of tickets and the identity verification of persons/tourist. Implementation of the idea would be a major contribution to digitization and paper preservation.

The various technologies used for ticketless bookings, such as mobile apps, RFID, and NFC, have further improved the user experience. Ticketless booking appears to have a bright future, with more museums and monuments expected to adopt this technology in the coming years.

REFERENCES

[1] R. Patel, R. R. Joshi, ‘Envision of I-RS (I-Railway System) - based on cloud computing’, International Journal of Science, Engineering and Technology Research (IJSETR), Volume 4, Issue 1, January 2015.
[2] C. Jing, G. Junwei, W. Yongtian, (2011) ‘Mobile Augmented Reality System for Personal Museum Tour Guide Application’, IET International Communication Conference on Wireless Mobile and Computing.
[3] A. M. Ansari, A. Alam, M. M. Barga, ‘Next Generation E-ticketing system’, International Journal of Emerging Research in Management & Technology ISSN: 2278-9359 volume-2.

[4] M. K. Othman, H. Petrie, C. Power, (2013) 'Measuring the usability of a smartphone delivered museum guide', The 9th International Conference on Cognitive Science, Volume – 97.
[5] S. Patil, N. Tippe, P. Patil, C. Kavade, D. Magar, Ni. Panari, (2015) 'Ubiquitous Adoption of Telemedicine to Extend Patient Care beyond the Office', International Journal of Emerging Engineering Research and Technology, Volume – 3, Issue – 2.
[6] L. M. Kamisher, (1989) 'A Model for Computerization of Museum Collections', The International Journal of Museum Management and Curatorship, Volume - 8.
[7] https://www.irjmets.com/uploadedfiles/paper//issue_11_november_2022/31498.



10.22214/IJRASET

45.98

IMPACT FACTOR: 7.129

IMPACT FACTOR: 7.429

INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Call : 08813907089 (24*7 Support on Whatsapp)