RESEARCH ARTICLE OPEN ACCESS

Development Application and usefulness of QR codes in relation to library services

Dr. Pratibha, N. Atram

Shri Shivaji Arts, Commerce and Science College, Motala Dist. Buldana

ABSTRACT

Many transactions in our country are now non-cash. Wherever we travel, QR codes are an integral part of transactions. QR code and Barcode have capture the every fields, even libraries are also using this facility to provide the services. This paper is deal with facilities and advanments of QR Code. This research paper is focused on the application and the benefits of QR Code.

I. INTRODUCTION

It turns out that our ancestors, saints, have long tried to preserve wisdom in various ways. I read that clay tablets, papyrus, etc. were used, and now that it is the 22nd century, many modern trends and technologies are used in daily life. Many transactions in our country are now non-cash. Wherever we travel, QR codes are an integral part of transactions. To serve customers, this QR code approach is widely used in the educational field and libraries.

Every invention has some underlying motivation, and QR codes were created for significant reasons. The QR code was developed in Japan for the company Denso Wave by a team under the direction of Masahiro Hara. The development of the QR code is frequently credited to Hara. Twodimensional information is encoded using QR codes. Both horizontally and vertically, they encrypt data. This suggests that a QR code may have the capacity to store more data than a UPC (Universal Product Code) barcode of the same size. Currently, a bespoke OR code may store up to 7,000 characters. It is hence perfect for New technologies are being applications. introduced daily, and in this age of rapid information expansion, it is necessary to accept changes and technologies. Dr. S. R. Ranganathan given the fourth law "save the time of the reader".

Definition:-

According to Adam Hayes

ISSN: 2454-5414

A quick response (QR) code is a type of barcode that can be swiftly scanned by a digital device and has data in the form of a string of pixels arranged in

a grid with square corners. Tracking product information with QR codes is popular in supply networks. Additionally, marketing and promotional campaigns frequently include QR codes.

Review of Literature

In contrast to a 2D barcode, a barcode, as defined by Dr. Neeraj Bhargava (2014), is a series of bars and spaces arranged in accordance with rules that dictate how data is to be represented. two-dimensional codes used to store non-linear data. The application of QR codes for marketing purposes is expanding. Information that has been encoded can be read by mobile devices (Sahu and Gonnade 2013). A QR code is associated with every print media (Kumar, Chikkamanju, and Nayak 2014). A study was conducted by Parabhoi (2017) to examine the applications of QR codes, particularly in libraries. The handling of information in libraries must change as a result of this new technology. It would be simple for the user to acquire the most recent and essential information linked. The user would have easy access to most current and necessary information related to the library by using QR code.

QR codes Application in Libraries and Information Centre

In library and information science, QR codes can be used in a variety of ways. It is one of those technologies that satisfies user demands by making resources accessible via mobile phones and other portable devices. Many educational institutions are willing and some have actually adopted this technology in recent years. The useful technology known as the QR Code quickly

transforms our informational needs from a physical to a virtual state. It is a highly comfortable way to browse through a range of information, including websites, emails, social media blogs, phone numbers, SMS, maps, and calendar details in any

direction. It can successfully give consumers the right context and location. The aspects of the QR Code that are highlighted in this section—some features of QR Code which are beneficial for time being the library services.



A group study room scheduler, marketing/promotional materials, and an audio tour of the library , Linking print to electronic journal holdings; Offering a digital substitute for printed books; Promoting online audio-visual materials; Embedding video assistance; Bringing outside resources into the library; Locating the right assistance; Taking the catalogue record with you; Seat Reservation; Appropriate Wi-Fi Use; Library Section; Library services, Function;

Features of QR Code

High-capacity encoding data QR code is capable of handling several dozen to several hundred times more information compared to conventional barcodes which are capable of storing a approximately 20 digits.

Small printout size QR code carries information both horizontally and vertically. Hence QR code can hold the same amount of data contained in a barcode in only one-tenth the space of it.

Damage resistant QR code has error correction capability. Data can be restored even if

the symbol is partially damaged. A maximum 30% of code word can be restored.

Readable can any direction in 360 degrees

QR code is omni directional i.e., capable of 360-degree, high-speed reading it accomplishes this task through position detection patterns located at the 3 corners of the symbol, This position detection pattern guarantee stable high speed reading.

Structured app end feature

A QR code can be divided in to multiple data areas. One data symbol can be divided in to sixteen symbols allowing printing in a narrow area.

Benefits of QR Code

Benefits of QR Code Applications to Library Services include increased customer satisfaction, quickness, storage of enormous amounts of data, portability, lack of specialized knowledge, and need for extra equipment.

• Personalized service; user-friendly, Information accessibility; time savings; user

involvement; awareness of one's location; and limitless access making QR codes for...

- Google Maps location YouTube video Image file PDF file Website URL
- App Store; Twitter; Facebook; LinkedIn; Instagram Download, Dropbox, Plain Text, Phone Number, Skype Call, SMS Messages, Email Address, Email Messages, Contact Information, Digital Business Card, Attendance Tracking, Wi-Fi Login, Paypal Buy Now Link, Use of QR Codes in Library Services, SMS Alert, and MOPAC, as well as Phone and Email Addresses.
- Wi-Fi access; reference materials; and library resources

Advantages of QR Codes

- Sharing
- Users love mobile Phones
- Interactive and Simple to use
- High Data Capacity
- Variety of Data
- Small Printout

Conclusion

ISSN: 2454-5414

Daily growth is being seen in the use of QR codes. It has discussed a range of subjects, such as marketing, business trips, visiting libraries, and other things. We can therefore state in words that it is a reflection of evolving technology and its effects on the community of academic users. Users of this fantastic instrument faced more challenges in the days to come. Additionally, QR codes reduce social distance. Payments can be made at the door via QR codes, eliminating the need for contact. Every reader benefit from the strength and capability of current technology in order to access knowledge. In today's technologically advanced world, library patrons are growing more tech-savvy. They are always trying to figure out how to use technology to make their methods for getting information simpler. Libraries must therefore be adaptable in order to modify and incorporate new technology into their operations and offerings in order to provide value-added services. Libraries recognise their importance as a source of information.

REFERENCE

- Bhargava, Neeraj & Kumawat Anchal 2007)
 Demonstration of Barcodes to QR Codes through Text Using Document Software".
 International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 9, www.ijirset.com
- Das, Indrakshi and Das, Digbijoy, (2021). "QR Code And Its Effectiveness in Library Services" Library Philosophy and Practice (e-journal). 5540. https://digitalcommons.unl.edu/libphilprac/554
- 3. Gopale, Vijaykumar B. (2019) "QR Code and Useful Applications in Libraries". International Journal of Library and Information Studies Vol.9(4), 82-86 http://www.ijlis.org
- 4. Negi, Dheeraj Singh, (2022). "Implementation and Design of E-Library System using QR code and Smart Mobile Phone" Library Philosophy and Practice (e-journal). 7229. https://digitalcommons.unl.edu/libphilprac/722
- Saleeq Ahmed Dar and Madhusudhan, M
 (2016) "Qick Response codes in University
 libraries: User Expectations for fast retrival of
 information at the University of Delhi".
 Journal of Knowledge and Communication
 Management. 114-127.