



Implementing Security of QR codes in Ecommerce application

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Abstract: This research take account of QR codes security mechanism in ecommerce application, its real time application in day to day life & research areas associated. With the technology of mobile phones constantly emerging, especially in the area of mobile internet access, QR codes seem to be an adequate tool to quickly & efficiently converse



URLs to users. It also allows offline media such as magazines, newspapers, business cards, public transport vehicles, signs, t-shirts & any other medium that may embrace print of a QR code to be used as carriers for advertisements for online products. QR code being so versatile because of its structural flexibility that it leads to so many diverse field for research such as increasing data capacity, security applications such as different kinds of watermarking & steganography as well. Several experiments have also been done for better recognition of QR code image which consists of scratch removal techniques. QR codes have capability to symbolize same amount of data within approximately one tenth space of a traditional barcode statistically. Information like URL, SMS, contact information & plain text may be embedded into two dimensional matrix. Moreover, with explosive increment of trend to utilize smartphones has played a significant role within popularity of QR codes.

[1] Introduction

A barcode is an optical machine-readable exemplification of data relating to object to which it is committed. Primitively barcodes represented data by varying widths & spacing of parallel lines, & might be referred to as linear or one-dimensional. Later they evolved into rectangles, dots, hexagons & other geometric patterns in two dimensions. Albeit 2D systems use a variety of symbols, they are in general referred to as barcodes as well. QR code stands for Quick Response Code, Which is trademark for type of matrix barcode which was invented by Japanese corporation Denso Wave. QR code has a number of features such as large capacity data encoding, dirt & damage resistant, high speed reading, small print out size, 360 degree reading & structural flexibility of application. A QR code or quick response code, is a type of barcode that could be read using a bar code scanner. These scanners are commonly referred to as QR code scanners. The scanners are in form of apps for smart devices. These codes could contain encoded info such as website URLs, data, & text as well as pre-formatted SMSs among

other things. These codes originate from Japan where they were used by Toyota to track car parts. Today, all smart phones come with a QR code scanner to ensure that everyone using a smart phone could benefit from this technology. Today, QR codes are used by businesses & companies to reach out to their client base.

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