



## Review on QR codes security mechanism 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.



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**Keywords—** QR code, E-Commerce, ATM, Universal Product Code (UPC), watermarking, security, data capacity, scratch removal

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