SMART SHOPPING WITH SECURE PRODUCT DELIVERY: A REVIEW

Ganesh Ravindra Ubale[1], Renuka Kyaval[2], Awais Khan[3] Prof. Pradip S. Ingle[4]
[1,2,3]Final Year, Department of Information Technology,
Anuradha Engineering College , Chikhali
[4]Asst. Prof. Department of Information Technology,
Anuradha Engineering College , Chikhali

Abstract

With the growing quantity of knowledge, the demand of huge information storage considerably will increase. Through the cloud center, information suppliers will handily share information hold on within the center with others. the target of this project is to propose a true time capturing system for shopper provides mistreatment fast Response (QR) code in an exceedingly internet based mostly Application. In recent years, in depth analysis has been applied on vision-based automatic identification technology that acknowledges image codes mistreatment sensible phones to supply numerous services which will acknowledge the credibility of any product. During this project, all product details and customers records are hold on cloud. Cloud computing offer platform to the users to store great amount of knowledge on cloud. mistreatment Multiplexing and De-multiplexing method encrypt and decrypt the knowledge from single QR code with special symbols and split the information back to their QR Code pattern wherever these QR Code pattern is browse by QR Code Reader Application. Customary image codes like one-dimensional barcodes and two-dimensional codes with black and white patterns identifies a product for its worth and basic options however doesn't demonstrate it, what is more not each product that's known, is employed for authenticating manufacturer's guarantee. thus during this Project we have a tendency to implement the net based mostly sensible searching with Secure Product Delivery mistreatment QR Code and OTP (One Time Password) Verification. If user obtain any Product user get the QR code on Register Email ID and at time of Product Deliver, Travelled boy scan QR Code and Send OTP on Register Mobile range and verify and OTP Verification Deliver Product firmly.

Keywords- Internet marketing, Online shopping, Buying product, OTP Verification.

I. INTRODUCTION:

The sensible searching methodology, this project presents a completely unique methodology of collaborating ease in sensible searching and also the sense of security cash wise further as for client satisfaction whereas doing searching offline. this can be enforced victimization AN golem application. In searching mode, the client must physically acquire his purchase, carry cash, in conjunction with them and wait within the long queue to form payments. The applying mentioned here would browse the QR code(s) of the product(s) & add it to the cart within the application. It provides strategies to alter the amount of product/s purchased and edit the list. In conjunction

With this the client would be told regarding the on-going offers within the store. Payment may be in keeping with client convenience.

II. EXISTING SYSTEM

Barcodes square measure usually supposed for shopper use wherever employing a barcode device, a shopper will take a picture of a barcode on a product. The barcode should be browse victimization pc vision techniques and barcode will hold data, it makes this vision task in shopper situations outstandingly difficult. Barcode decoder will offer the vision algorithmic

rule feedback, and develop a progressive strategy of the merchandise.

III. PROPOSED SYSTEM

In the projected system, during this project, all product details and customers records square measure hold on cloud. Cloud computing offer platform to the users to store great deal of knowledge on cloud. Using Multiplexing and De-multiplexing method write and rewrite the data from single QR code with special symbols and split the info back to their QR Code pattern wherever these QR Code pattern will be scan by QR Code Reader Application. Standard image codes like one-dimensional barcodes and two-Dimensional codes with black and white patterns identifies a product for its price and basic options but doesn't attest it, what is more not each product that's known, is employed for authenticating manufactures and assurance, conjointly during this Project When user obtain Product from internet application generate the QR code send to customer/ user Mail id the generated QR Code is employed at the merchandise Delivered Time. Once user looking send owner these Product to revered Deliver Boy for deliver this product to Request User. Once Deliver Boy Reach the Destination purpose or Deliver Address Deliver boy raise regarding the QR code for Product because these product not deliver to the Unknown person and conjointly send OTP verification code to Requested user Mobile range once Verify OTP and QR code employee Deliver the merchandise to Respected Person.

IV. LITERATURE SURVEY

1. **Paper Name: Enhancing User Experience using Mobile QR-Code Application**

Authors: Abdulhakeem Aliyu Wara

The illustration featured a paradigm system showing however code are often used as another to the traditional searching method in some retail stores thereby easing off difficulties sweet-faced by shoppers whereas searching through the employment of their smart phones and at identical time providing

chance to harness a number of the potentials of each the QR code technology and their smart phones. RAD style (Throwaway Prototyping) methodology was employed in the event of the system and PHP scripting language was wont to

generate the QR codes and coming up with the interface, MySQL Server served because the backend tool for the paradigm system. The developed paradigm was with success tested and illustrated as a website study during a personal establishment.

2. **Paper Name: Influencing the online consumer's behavior: the Web experience**

Author: Efthymios Constantinides

Addresses one in every of the basic problems with e-marketing: a way to attract and persuade the buyer within the extremely competitive net marketplace. Analyses the factors moving the web consumer's behavior and examines however e-marketers will influence the end result of the virtual interaction and shopping for method by focusing their promoting efforts on parts shaping the customer's virtual expertise, the online expertise. characteristic on-line the net expertise elements and understanding their role as inputs within the on-line customer's decision-making method square measure the first step in developing and delivering a gorgeous online presence seemingly to own the most impact on net users. Click-and-mortar firms delivering superior net expertise influence their physical clients' perceptions and attitudes, driving extra traffic to ancient sales retailers. Provides a contribution to the theoretical dialogue round the factors influencing the web consumer's behavior and descriptions some noticeable similarities and variations between the normal and virtual shoppers.

3. **Paper Name: RFID Based Automatic Billing Trolley**

Author: Galande Jayshree, Rutuja Gholap, Preeti Yadav.

Now days buying and searching at massive malls is changing into a daily activity in railway system cities. We will see immense rush at malls on holidays and weekends. The frenzy is even a lot of once there Square measure special offers and discount. Folks purchase completely different things and place them in self-propelled vehicle. When total purchase one must attend request counter for payments. At the request counter the cashier prepare the bill victimization Universal Product Code reader that may be a time overwhelming method and ends up in long queues at request counters. Our aim is to develop a system which will be employed in searching malls to resolve the higher than mentioned challenge. The systems are going to be placed all

told the trolleys. It'll include a RFID reader. All the merchandise within the mall is going to be equipped with RFID tags. once an individual puts any merchandise within the self-propelled vehicle, its code are going to be detected and also the worth of these merchandise are going to be keep in memory. As we tend to place the merchandise, the prices can get superimposed to total bill. Therefore the requests are going to be worn out the self-propelled vehicle itself. Item name and its value are going to be displayed on LCD. Additionally the merchandise name and its value are often declared victimization receiver. At the request Counter the overall bill knowledge are going to be transferred to computer by wireless RF modules.

4. Paper Name: Smart Trolley System Based on Android

Author: Ms. Neha A Anpat, Ms. Karuna V Belgudri, Ms. Rutuja B Deshmukh

In this project we tend to are developing Associate in nursing application that is predicated on robot .In this planned system the purchasers got to scan barcode of each product with robot mobile that they want to buy and drop into the go-cart then proceed to checkout at the asking counter. The asking method is sort of irksome and extremely time intense. we've planned a "Smart tram System supported Android" that aims to cut back and probably eliminate the whole waiting time of shoppers i.e. alternative system takes ten minutes whereas our planned system takes five minutes, lower the whole personnel demand from asking counter and increase potency overall.

V. ARCHITECTURE DIAGRAM
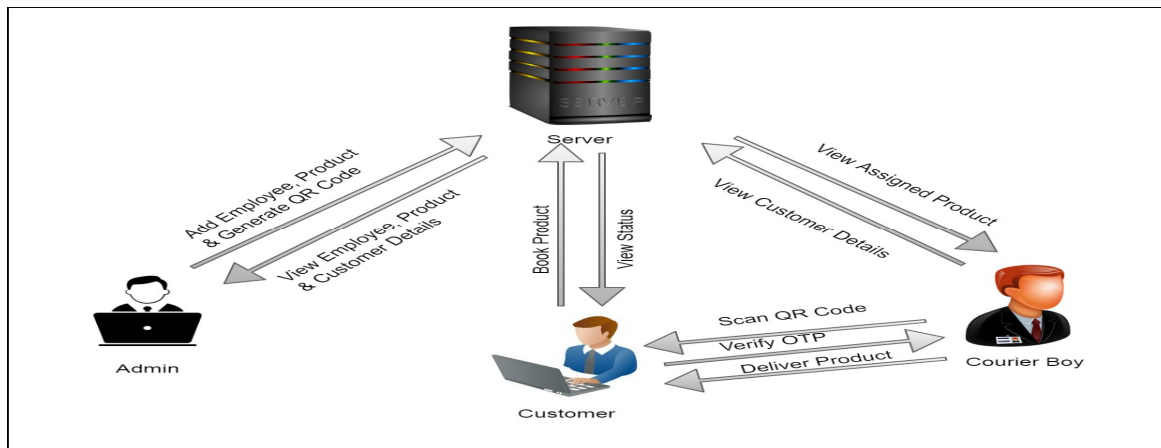
VI. FUTURE ENHANCEMENTS

There is but variety of the way to boost the expertise of shoppers that area unit to be more explored to the current study. Firstly, there'll be would like for the mixing of checkout system with the developed image, therefore on offer customers a very new expertise (from creating product decisions to locating the product and finding out to avoid long queues) looking within the store there by creating their retail thought a full heap higher. Lastly, to include AN increased security feature on the QR codes in order that customers will firmly scan codes and well perform money transactions victimization their mobile phones.

VI . CONCLUSION

As the demand for the mobile wanting is increasing the requirement of safer, safe and reliable dealings is of utmost demand. Wise phones, that became a awfully necessary a district of today's life, have reduced all the efforts that area unit required for wanting. With camera feature in it, the user can scan the QR code of the item to be purchased then directly add it into the cart. There is a unit a pair of blessings of it: initial no got to fill within the queue for Associate in Nursing extended time in malls just for scanning the item, second there will be no scope for the frauds that happen in mobile wanting. The items up to now purchased by the consumer square measure maintained at intervals the app that will be used by the consumer at

intervals subsequent purchase. During this Project we tend to implement the online primarily based good searching with Secure Product Delivery exploitation QR Code and OTP (One Time Password) Verification. If user gets any Product user get the QR code on Register Email ID and at time of Product Deliver, messenger boy scan QR Code and Send OTP on Register Mobile range and verify and OTP Verification Deliver Product firmly.

VII REFERENCES

[1] Ya-Lin Lee and Wen-Hsiang Tsai, Senior Member, IEEE, "A New Data Transfer Method via Signal-rich-art Code Images Captured by Mobile Devices", VOL. 25, NO. X, 2015.

[2] Dr.Gagandeep Nagra, Dr.R.Gopal, "An study of Factors Affecting on Online Shopping Behavior of Consumer", International journal of scientific and research publications, Volume3, issue 6, June 2013, ISSN:2250-3153

[3] Constantinides, E., (2004), "Influencing the online consumer's behavior: The web experiences", Internet Research, vol. 14, no. 2, pp.111-126.

[4] Max E. Vizcarra Melgar, Luz A, Melgar Santander,"An Alternative Proposal of Tracking Products Using Digital Signatures and QR Codes" ,Aug. 2015.

[5] B. Davis, "Signal rich art: enabling the vision of ubiquitous computing," Proc. SPIE 7880: Media Watermarking, Security, and Forensics III, N. D. Memon, J. Dittmann, A. M. Alattar, and E. J. Delp III, Eds., vol. 788002, Feb. 2011.

[6] Udita Gangwal, Sanchita Roy, Jyotsna Bapat,"Smart Shopping Cart for Automated Billing Purpose using Wireless Sensor Networks", SENSORCOMM 2013 : The Seventh International Conference on Sensor Technologies and Applications

[7] Mira Almehairi, Tariq Bhatti, "Adoption of virtual shopping: Using smart phones and QR codes, Journal of Management and Marketing Research", Volume 17 – October, 2014.

[8] "Smart Trolley Using QR Code", International Journal of Computer Science and Information Technology Research ISSN 2348-120X (online) Vol. 3, Issue 4, pp: (218-224), Month: October - December 2015.

[9] Aslam, S., Sahid, A. & Lee, K. G. (2012),"An Efficient Hybrid Shopping Mall with Advanced Purchasing System", 7th International Conference on Computing and Convergence Technology (ICCT), pp 170.