

STUDY ON “BARCODE BASED BILLING SYSTEM FOR SHOPS USING ANDROID SMARTPHONE

Amit Bambodkar¹, Vishal Nagpure², Assit. Prof. Pranali Tembhurne³

1 (Computer Engineering, Smt. Radhikatai Pandav College Of Engineering, R.T.M.N.U, Nagpur

2 (Computer Engineering, Smt. Radhikatai Pandav College Of Engineering, R.T.M.N.U, Nagpur

3 (Computer Engineering, Smt. Radhikatai Pandav College Of Engineering, R.T.M.N.U, Nagpur

Abstract: The Smart Shopping methodology, this project presents a novel method of collaborating easy in smart shopping and the sense of security money wise as well as for customer satisfaction while doing shopping offline. This is implemented using an Android application. In shopping mode, the customer needs to physically pick up his purchase, carry cash, along with them and wait in the long queue to make payments. The application mentioned here would read the Bar code(s) of the product(s) & add it to the shopping cart in the application. It provides methods to change the quantity of product/s purchased and edit the list. Along with this the customer would be informed about the on-going offers in the store. Payment can be according to customer convenience.

Keywords: Computer System, Mobile and Android.

I. INTRODUCTION

As of late, broad research has been done on vision-based programmed distinguishing proof innovation that perceives picture codes utilizing PDAs to give different administrations that can perceive the genuineness of any item. Utilizing Barcode with unique images and split the information back to their Barcode design where this Barcode example can be perused by Android advanced mobile phones. Standard picture codes like one-dimensional standardized identifications and two-dimensional

I. and white examples recognizes an

Item for its esteem and fundamental Highlights however do not validate it, additionally only one out of every odd Product that is distinguished is utilized for confirming Manufacturer's guarantee. So Barcode confirms items by catching it through the advanced mobile phone, at that point deciphers and sends it to the server for confirmation. Specifically, we focus on the situations where the memory passages and their affiliations frame a double Hamming space or an interminable square matrix. The client advances the chose item rundown to the server that empowers the customer to choose base on the items legitimacy. Individuals buy distinctive things and place them in a trolley, after fruition of shopping, one need Ease of Use to go charging counter for instalment. At charging counter clerk set up the bill

utilizing standardized tag peruse, which is extremely tedious process and results in long line at charging counter. An item "Mechanized shopping trolley for human managing utilizing android application" being create to help a man in ordinary shopping in term of lessen time spend while obtaining. Minimal effort effortlessly adaptable and powerful framework for helping shopping to the client. At the point when the client need to buy a thing then client needs to click a photo of standardized identification. After word at that point relating information with respect to item will be shown on client PDA screen. As we put the item the cost will get added to the aggregate bill. In this manner the charging will be done in application itself. At the charging counter the aggregate bill information will be exchange to server side pc by proposed framework. At the present situation shopping intends to feel the solace and facilitate the means associated with it. There are different variables to remember with regards to conventional method for shopping, for example, item hunt, charging and installment. An Android application is create to give an intuitive situation and upgrade the shopping knowledge.

II. RELATED WORK

In the present quickening world, shopping at shopping centers or stores have progressed toward becoming lifeline for individuals, if time is worried as one of the critical variables. Advancement in innovation is fundamentally pointed towards making everyday existence of individuals simpler and quicker. In metropolitan urban areas we see huge surge at shopping centers on siestas and ends of the week. Individuals purchase distinctive items and place them in trolley. After finish of choosing the merchandise, one needs to go to charging counter for installment. There the cost on every item encoded in scanner tag is perused and the bill is readied. This is exceptionally

tedious and brings about long line at counter. Framework is produced to help a man in ordinary shopping regarding decreased time spent while buying. The primary target of proposed framework is to give an innovation situated, ease, effectively dealt with, and productive framework for helping shopping face to face.

III. LITERATURE SURVEY

[1] A creative item with societal acknowledgment is the one that guides the solace, comfort and proficiency in regular daily existence. Acquiring and Shopping at Big Malls is ending up day by day action in metro urban areas. we can see huge surge at these shopping centers on siestas and ends of the week. Individuals buy distinctive things and place them in trolley. After finishing of buys, one needs to go to charging counter for installments. At charging counter the Cashier look through the bill utilizing Barcode Reader which is exceptionally tedious process and results in long line at charging counter. In this paper, we examine an item "Brilliant Trolley in Mega Mall" being produced to Assist a man in ordinary shopping regarding decreased time spent while acquiring. The primary goal of proposed framework is to give an innovation situated, minimal effort, effortlessly adaptable, and rough framework for helping shopping face to face. Keen Trolley, Innovative Product, Big Malls, Metro Cities, Big Rush, Billing Counter, Technology Oriented, Low-Cost, Easily Scalable.

[2] In the present shopping centers, clients find different troubles. Those troubles are as per the following. 33% of significant customers purchase staple goods on a financial plan. The vast majority of the circumstances, it is just toward the finish of procurement customers come to realize that the general buy add up to is more noteworthy than

their financial plan. At that point they invest much energy in hunting down their coveted items lastly general shopping process turns out to be additional tedious as well. Because of this, few times customers couldn't purchase all their coveted items and pass up a major opportunity couple of things. Another real issue looked by clients is that they need to sit tight in long lines for charging. In this manner the proposed framework beats every one of these downsides looked by customers in shopping centers. Presently a day's acquiring and Shopping at enormous shopping centers is ending up day by day movement in metro urban communities. We can see enormous surge at these shopping centers on vacations and ends of the week. This group winds up tremendous when there are exceptional offers and rebate. Individuals buy distinctive things and place them in trolley. After aggregate buy one have to go to charging counter for installments. At charging counter the clerk look through the bill utilizing scanner tag peruser which is extremely tedious process and results in long line at charging counter. The essential thought of this undertaking depends on the lines of the "AUTO BILLING FOR MALLS" utilized as a part of the Malls and Shopping Centers. A gadget "Keen TROLLEY" is a data stockpiling framework. Here the framework Intelligent Trolley to look like items name, items sum, organization name and so forth are persistently recorded and shows the name of the item with its cost. This "Savvy TROLLEY" is likewise appropriate for different applications and utilizing interface the recorded information can be sent to the principle database at the counter of the shopping center. The framework is a proficient means for business reason to the clients of being time productive and simple to control. Shop proprietor can keep up adequately a day by day/week after week record of every item and judge his shop necessities and buyers utilization. This task is extraordinarily

focused at the proprietors of business client's simplicity of their shopping.

[3] When we go for shopping we regularly select the required things and incorporate them into the shopping bin. Regardless, concerning the last bill portion there are no attractive counters in the strip mall that can manage each one of the customers. Moreover analyzing each and every consequence of all the customer transforms into an enormous task and prompts tremendous line plan. In light of this our vital time is misused, so by recollecting this, we have balanced a truck which will contain an institutionalized label scanner by which the customer can inspect the thing and normally the thing id, thing name, sum and distinctive purposes of intrigue are secured in the Wamp database which will be brought and appeared on the android application. Scanner will screen things added to the truck. Each truck makes them intrigue ID, an android application will use this ID with the objective that the database can be gotten to by the customer through Wi-Fi module. The mall's PC will demonstrate all the once-over of thing added to the truck and the last bill will be made. This application relies upon android organize as by far most of the overall public use android phones.

[4] An imaginative thing with societal affirmation is the one that aides the comfort, solace and profitability in general day by day presence. Purchasing and shopping at huge malls is winding up each day activity in metro urban zones. We can see immense surge at these strip malls on rests and finishes of the week. People purchase differing things and place them in trolley. After culmination of gets, one needs to go to charging counter for portions. At charging counter the assistant set up the bill using institutionalized distinguishing proof examine which is greatly monotonous process and results in long queue at charging counter. In this paper, we look at a thing "Sharp Shopping

Cart" being made to help a man in normal shopping the extent that diminished time spent while gaining. The essential focus of proposed structure is to give an advancement orchestrated, insignificant exertion, easily flexible, and intense system for helping shopping up close and personal. The made system contains 3 key fragments/modules (a) Server Communication portion (SCC) (b) User Interface and show section (UIDC), and (c) Automatic charging portion (ABC). SCC sets up and keeps up the relationship of the shopping container with the basic server. UIDC gives the UI and ABC handles the accusing in relationship of the SCC. These 3 modules are consolidated into an introduced structure and are endeavored to satisfy the value. The model made is set up for business game plan with authentic thought viewing security and framework issues as discussed. EM-18 RFID Reader, LPC2148 Microcontroller, RFID name Radio Frequency Identification (RFID), ZigBee Module.

[5] A store is the place wide arrangement of thing things is available. These thing things can be support, drinks or any family thing. The guideline inspiration driving supermarkets is to give availability of the impressive number of things and extra the period of the customers yet from time to time customer gets confounded while holding up in the line at charging counter and on occasion they get overwhelmed while taking a gander at the total cost of the significant number of things with the monetary arrangement in the pocket before charging. To beat these issues, we have formed a sharp trolley using a PDA. With this system, there is no prerequisite for customer to sit tight in the line for the checking for the thing things for charging reason. Right when the customer installs the enlistment card in the carton or trolley at precisely that point it will fill in as a keen trolley. Else, it will fill in as a standard trolley. Supermarkets use this

framework as a technique to manufacture the amount of customers.

IV. CONCLUSION

From the investigation some shopping framework, they are utilizing Raspberry pi gadget, QR Code are use for the filtering picture and show on the subtle elements of the buy thing. Be that as it may, Raspberry pi gadget is all the more expensive. Furthermore, different kind of gadget is appended for the different exercises. In laser examining, strength and cost are the two weaknesses and a standardized identification moves toward becoming scratched or folded the peruse will most likely be unable to peruse it.

As indicated by "Scanner tag based charging framework for shop utilizing Android Application". This product more helpful than other shopping basket Software. Proposed a continuous catching framework for client supplies utilizing scanner tag in Android advanced mobile phone. Standardized identification confirms items by catching it through the advanced mobile phone, at that point unravels and sends it to the server for validation. The client advances the chose item rundown to the server and the reaction got from the server empowers the purchaser to choose in view of the items realness. The extent of this paper is to propose a continuous catching framework for shopper supplies utilizing scanner tag in an android Smartphone. In future, checking the items after the instalment should be possible naturally with the assistance of inserted framework.

REFERENCES

[1] "Smart Trolley Using QR CODE" 1Arbaaz Khan, 2Aadil Siddiqui, 3 Zeeshan khan, 4 Jasmine khan, 5 Prof. Amit S Zore 1, 2,3,4,5 Department of Computer Engineering, DPCOE College of engineering, Pune, Maharashtra, India

[2] "Intelligent Shopping Cart" ISSN: 2319-5967 ISO 9001:2008 Certified International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 2, Issue 4, July 2013 499 Raju Kumar1, K. Gopalakrishna2, K. Ramesha3

[3] "Automated Billing Cart" *International Journal of Computer Science Trends and Technology (IJCST) – Volume 5 Issue 2, Mar – Apr 2017* Muhib A. Lambay[1] , Abhishek Shinde[2] , Anupam Tiwari[3] , Vicky Sharma[4] Assistant Professor [1], UG Students [2], [3] & [-4] Department of Computer Engineering Theem College of Engineering University of Mumbai, Boisar Maharashtra – India

[4] "Intelligent Shopping Cart" ISSN: 2319-5967 ISO 9001:2008 Certified International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 2, Issue 4, July 2013 499

[5] "Smart Trolley using Smart Phone and Arduino" Harpreet Singh Bedi*, Nikhil Goyal, Sunil Kumar and Avinash Gupta Department of Electronics and Electrical Engineering, Lovely Professional University, Phagwara, Punjab, India

[6] Ms. Rupali Sawant, Kripa Krishnan, Shweta Bhokre, PriyankaBhosale, The RFID Based Smart Shopping Cart, March-April, 2015.

[7] Udit Gangwal, Sanchita Roy, JyotsnaBapat, Smart Shopping Cart for Automated Billing Purpose using Wireless Sensor Networks, 2013.

[8] S. Sainath, K. Surender, V. VikramArvind, J. Thangakumar, Automated Shopping Trolley for Super Market Billing System, (ICCCMIT-2014).

[9] Ashmeet Kaur, AvniGarg, Abhishek Verma, Akshay Bansal, Arvinder Singh, Arduino based shopping cart.

[10] JanhaviIyer, HarshadDhabu, Sudeep K. Mohanty, Smart Trolley System for Automated Billing using zigbee, October 2015.

[11] 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.

[12] 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.

[13] 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

[14] Constantinides, E., (2004), "Influencing the online consumer's behaviour: The web experiences", *Internet Research*, vol. 14, no. 2, pp.111-126. *ISR Journals and Publications*

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

[16] 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