INTERNATIONAL JOURNAL
FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Qr Based Shopping Using Android

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Abstract: *The android application design and develop to ease of the problem. Which are followed by customers in day to day life in various super market, shops and some other organization with the help of android application. With the improvement of living standards, shops are growing bigger after constructing with more plentiful goods and more assortment of goods. Therefore, building a simple, fast and convenient shopping guide system has become a mutual concern of merchants and customers. In recent times android mobile phone has become a popular consumer products, a simple optimization method was known to design shopping guide system run on smart phones, with the help of QR code generation and recognition technology. For efficient shopping system, unique QR codes are created to record the article name, number, location of goods placed. Phone recognizes the QR Code through the camera.*

Keywords: QR code scanner, Android, QR code

I.   INTRODUCTION

QR codes are random patterns, which can be commonly observed on the corner of posters or web pages. The goal of QR codes aims at convenience oriented applications for mobile phone users. People can use the mobile phone cameras to capture QR code at the corner of web page the proliferation of internet usage has made people linking to the web pages easily by using pc or mobile phone over the wired or wireless networks. Particularly, for users using the mobile phones to browse the web pages, it has brought much more conveniences to their daily lives quick response code has been widely used in the automatic identification fields. In order to adapting various sizes, a little dirty or damaged, and various lighting conditions of bar code image, this paper proposes a novel implementation of real-time quick response code recognition using mobile, which is an efficient technology used for data transferring. By using this application .we can save both time of shopping and man power in different organization and big step towards digitalization in shopping sector. Recent advancement of smart phones and tablet computing devices has witnessed the increasing popularity of short- range wireless-communication in many mobile applications and services, although near field communication (nfc) allows two nfc-enabled devices to communicate with each other, it is possible that a third device could intercept the data. Three major concerns related to data interception are data corruption, data modification, and data insertion. Data corruption involves transmitting valid frequencies at well- timed intervals. It is a time consuming process. The physical appearance of goods is mandatory. For selecting items customer need to carry a basket with them. For paying bills customers needs to stand in queue.

II.   LITERATURE SURVEY

The retail industry has been advocating "Smart Shopping" for many years by adopting various technologies to enhance the shopping experience at the retail environment. The vision of smart shopping promises is to provide on-the-spot information about various discounts, schemes, etc. at your fingertip. After surveying it is found that most of the customer are facing problems, while going to the shopping because of rush and unavailability of products.

Author P. Sathishkumar were used multiplexing & Demultiplexing algorithm for recognizing QR code image using smart phones to provide the various services that an recognize the authenticity of any product so QR code verify product by capturing it through the smart phone then decode the information.[2] Smart Shopping application uses REST, an architectural style, as a web service for the app. REST is called as Representational State Transfer protocol, which is a lightweight process.

It is a set of guidelines for creating web services. REST has following architectural properties- Client-server , Stateless , Manipulation of the resources, Self-descriptive messages, Resource identification.[3] Alexandre Alapetite introduces a novel Web architecture that supports session migration in multidevice Web applications, particularly the case when a user starts a Web session on a computer and wishes to continue on a mobile phone.

This paper provide a solution for transferring the needed session identifiers across devices is to dynamically generate pictures of 2D-barcodes containing a Web address and a session ID in an encoded form mobile device to a computer (opposite direction), and between two or more mobile phones (possibly back and forth).[4] In this paper they were used an advanced a fast QR filtering method to rapidly to get information which is hided inside the QR code for the security persistence. Security contactless payment

and security exposures such as eavesdropping and jamming. The second module represents the web server communication and the generation of OTP which is hidden in QR code. The mail will be received by the user and the user scans the QR code with the help of mobile device and extracts the OTP. [1]

III. PROPOSED SYSTEM

In the proposed system, we are using a QR code scanner to scan the QR code image using smart phones to provide various services that can recognize the authenticity of any product. So QR code verifies products by capturing it through the smart phone, then decodes the item. The user will scan the code of an item which he wants to purchase with the help of scanner provided by this app. After scanning the product according to the need of user order will be placed. Then they placed order get called which will create a connection with the database of the shop.

He can order the product he wishes to buy through the application in his Smartphone. The shop owner will be admin of the system. Shop owner can hire moderators who will help owner in managing the customers and product orders.

In this Application the admin has only authority to insert product QR code into the database of the shop.

In login module user has to login first before scanning the QR code for new user they need to register first. The existing products where displayed on screen customer will select the products according to their need.

For each product the QR code will already generated customer just scan the QR code. After selecting the products according to the need automatic list will be generated for the products, with their quantity and price.
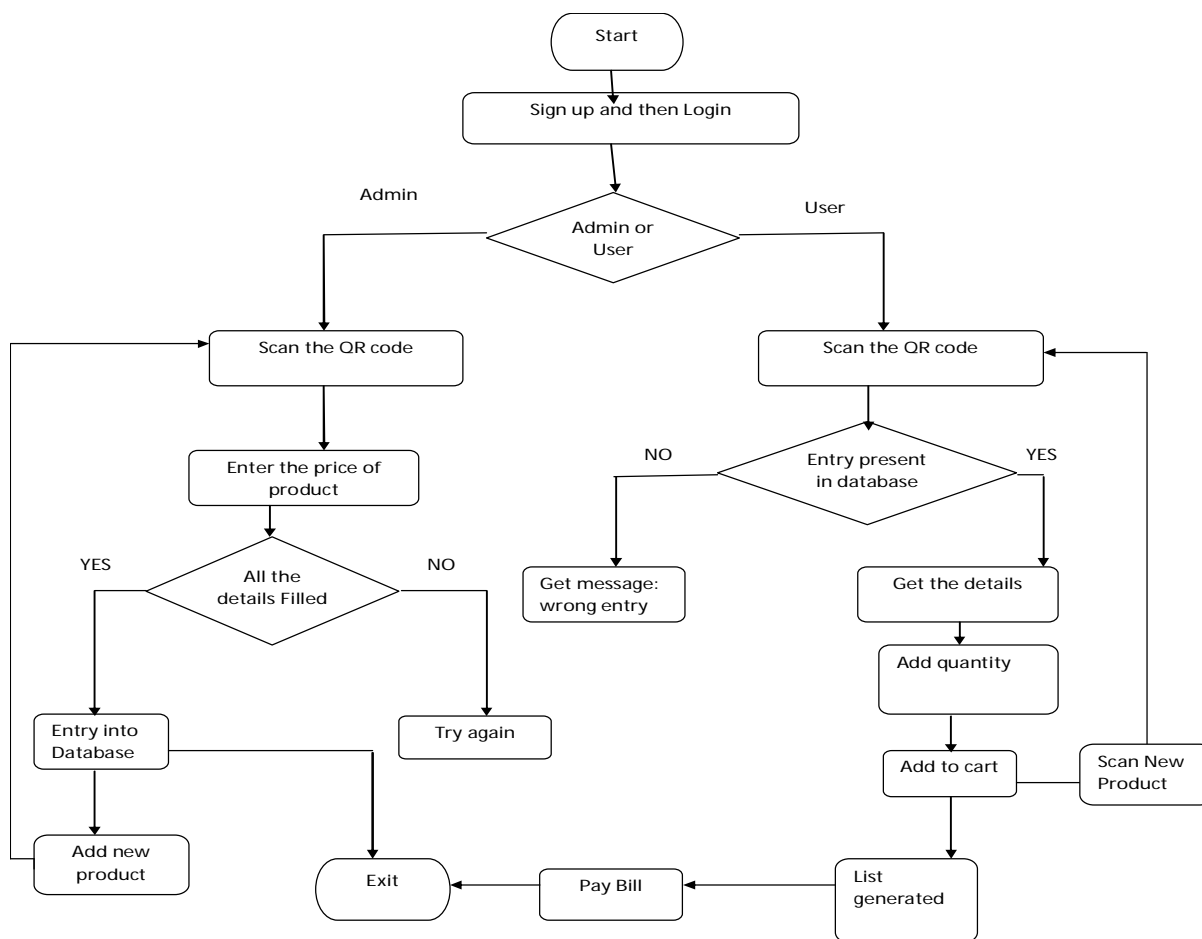

Fig. 3.1: Flow Chart of project

The mobile application runs as a background process in the customer's mobile phone and it will scan the QR code and will fetch the stored information. As now for this module we are going to store information about the products available into the shop.
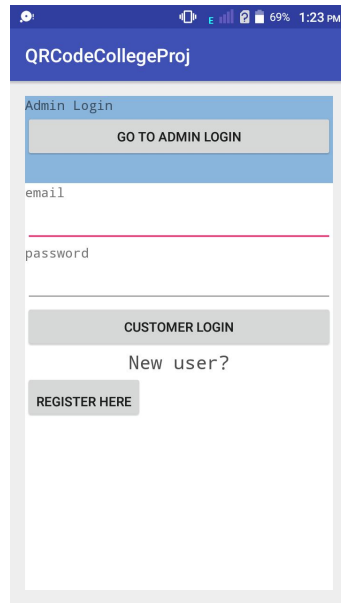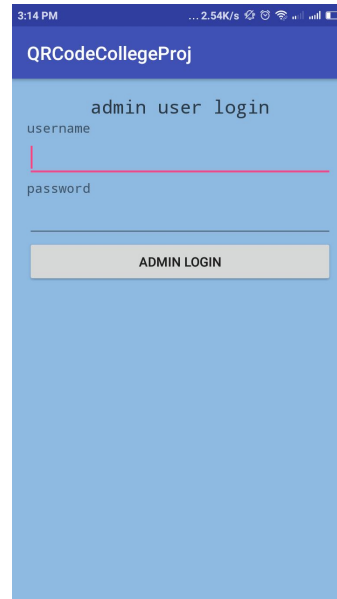
Fig 5.1(a): Homepage

Fig 5.1(b) Admin login

Fig 5.1(a) Shows the Homepage of our proposed system which contain Admin Login and Customer Login . If admin is a user then he needs to click on go to admin login and if customer is user then he needs to login into account.Fig 5.1(b) Shows the Admin Login of our proposed system which have authority to add product in database. only one user has authority to insert products into the database.
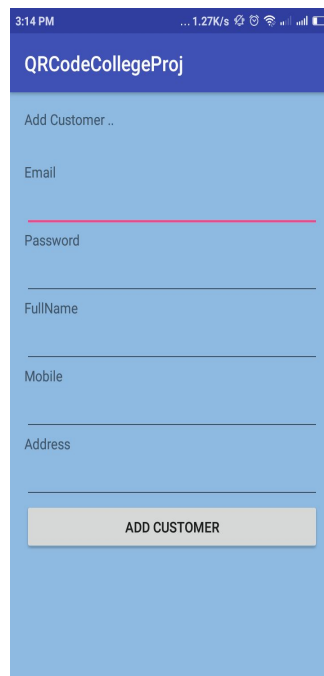

Fig 5.2: User registration

Fig 5.3 Shows the User Registration Page it contains various fields such as name, e-mail id , password, mobile number and address in password field it must contains 7 character in which at least one digit, one special character, one upper case and one lower case. In mobile number it must be of 10 digit only. And email id must contain "@" in it.
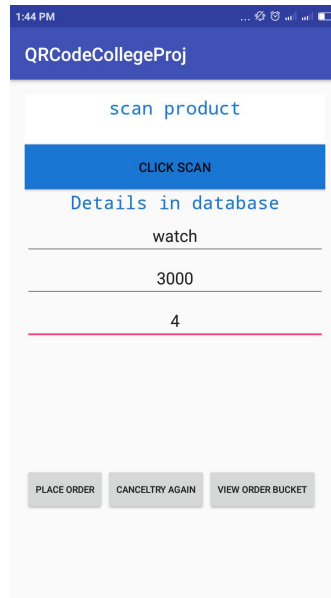
Fig 5.3: Scanning product

Fig 5.3 Shows the working on scan QR code of Product which are available in the Shop after scanning it will fetch the information about product and customer will add the quantity of product and place an order. For every new product customer will do the same procedure.
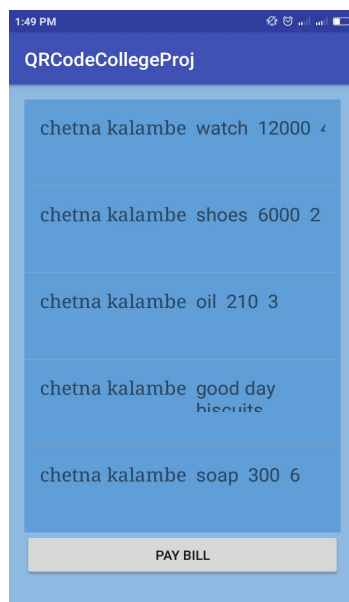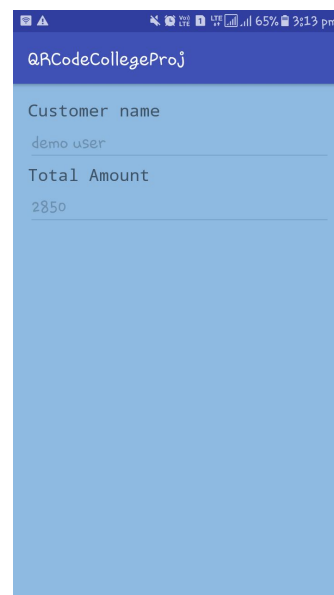

Fig 5.4(a): List generation   Fig 5.4(b): Pay bill

Fig 5.4(a) Shows the List Generation in this after scanning all the products the list will generate and customer click on "pay bill" button for paying bill and Fig5.4(b) Pay Bill which shows total amount of shopping will be displayed on the Screen

V.   CONCLUSIONS

The research determined that retailers or service providers can increase awareness of their product and brand by being creating by engaging customers with technology oriented advertisement marketing is a huge platform for retailers to create an experience for the

customers by storing the information about their services and brands for the purpose of customer's feasibility. For that we are going to develop an application for shopping.

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