APPLICATION OF QR CODE TECHNOLOGY TO AUTOMATE ORDERING SYSTEM IN MOVIE THEATERS

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ABSTRACT

The paper introducesa web-based application (Food ordering system in movie theatres) that generally consists of the QR code scanner and display the food products after scanning the QR Code.This new technique provides convenience for the customers. This system increases the takeaway of foods than visitors. Therefore, this system enhances the speed and standardization of taking the order from the customer. It provides a better communication platform. The user's details are noted electronically.With a food menu online you can easily track the orders, maintain customer's database and improve your food delivery service. The techniques introduced in this paper can be used in mobile are Implementing Customizable Online Food Ordering System Using Web Based Application [1] and Using QR codes [2].The system has been designed to give online order of food order from mobile and choose payment as online payment or cash on delivery .As told before with the use of QR code we going to display the menu of food products. We also provide the online payment process.

Keywords-Web-based Application, QR Code Scanning, Online Payment.

I.INTRODUCTION

Online food ordering is a process of ordering food from a movie theatre through internet. A customer will search for a favourite food to buy, usually filtered via type of different combo and choose from available items and choose delivery.This online food ordering system intends different types of forms with different of food varieties provides to user to buy online. Online food ordering system user can give order from theatre and pay cash on delivery. With the use of QR code we are going to buy food products.

A QR code is type of barcode that can hold more information that the familiar kind scanned at checkout around the country. The "QR" stands for the "quick response" a reference to the speed at which the large amounts of information they contain can be decoded by scanner. They were invented in 1994 in Japan and initially used for tracking shipping. As the code can be easily decoded by the camera of a BlackBerry, iPhone or other Smartphone's, this technology is increasingly accessible to the average person. As the electronic techniques are advance computing machines have been miniaturized and smart phones are developed with powerful processors and large memories. Nowadays, various services become available on smart phones. In this paper we are

introducing the QR Code. The main use of the QR Code Scanner is to scan the unique code and place the order of food products for the food menu; we are also looking for online ticket booking[1].

II.LITERATURE REVIEW

Market research is defined as "function that links the consumer, customer, and public to the marketer through information – information used to identify and define market opportunities and problems to generate, refine and evaluate marketing actions to monitor marketing performance, and to improve understanding of marketing process. Marketing research specifies information required to address their issue, design the method for collecting information, manages and implements the data collection process, analyses, and communicates the finding and their implications".

1.This digital ordering system uses two different approaches: 1) Customers app 2) Counter side. The customer's app is made exclusively for customers and is identified by the seat number on which the QR code is register[3].

2. Now these days, a QR code is applied in different application streams related to marketing, security, academics etc. and gain popularity at a really high. Day by day more people are getting aware of this technology and use it accordingly. The popularity of QR code grows rapidly with the growth of Smartphone users and thus the QR code is rapidly arriving at high levels of acceptance worldwide[1].

3.This paper presents an integration of wireless communication technologies and web services technologies to realize a wireless food ordering system. In this system, it implements wired and wireless data access to the servers and food ordering functions through both desktop PCs and mobile devices such as PDAs over a wired/wireless integrated local area network. To sure the security of the system, the secure web service architecture and some security strategies to ensure mobile communication security are discussed. Web services-based wireless applications on mobile devices provide a means of convenience, improving efficiency and accuracy for theaters by saving time, reducing human errors, etc[2].

III.DATABASE FOR WEBSITE

For Mobile ShoppingMySQL is the perfect choice to create databases. The Following tables are supported for mobile shopping:
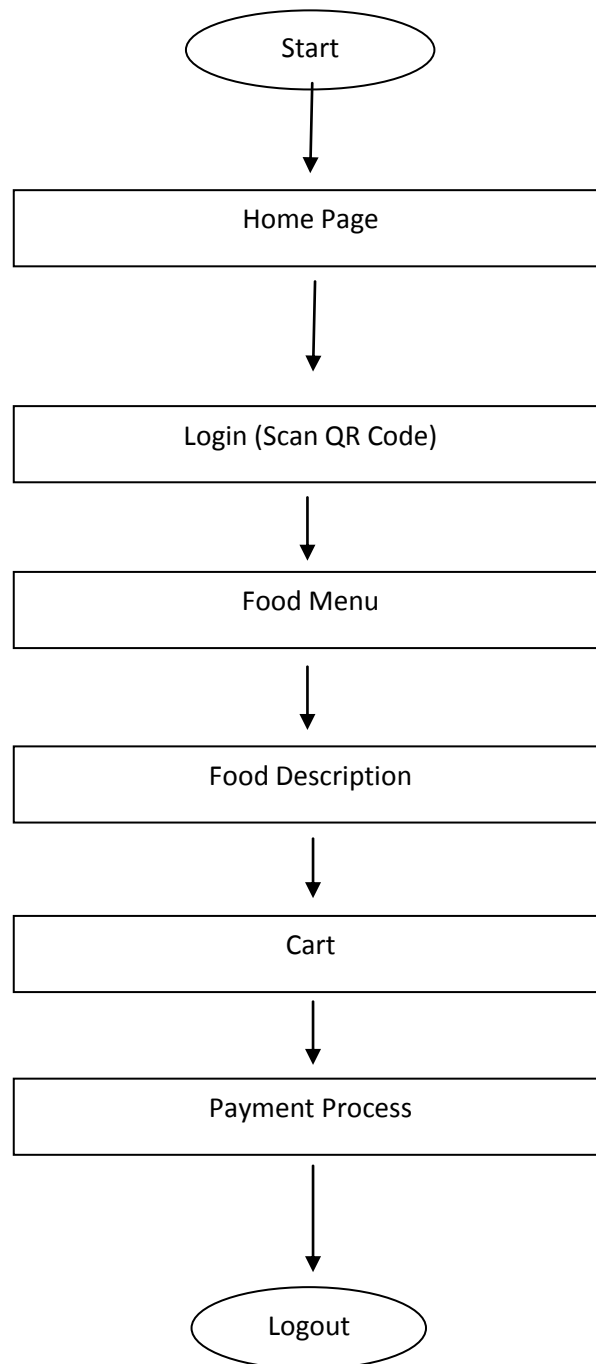
1.register: It contains the seat number in theaters.

2.foodmenu: It contains all the food available at food counter.

3.confirm_order_address: It contains the information of customers who buy the food form website.

4.confim_order_product: It contains the food product information which customer want to buy.

IV.DESIGN AND IMPLEMENTATION

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                    ┌──────────────┐
                    (    Start     )
                    └──────┬───────┘
                           │
                           ▼
                ┌───────────────────────┐
                │      Home Page        │
                └───────────┬───────────┘
                            │
                            ▼
                ┌───────────────────────┐
                │  Login (Scan QR Code) │
                └───────────┬───────────┘
                            │
                            ▼
                ┌───────────────────────┐
                │      Food Menu        │
                └───────────┬───────────┘
                            │
                            ▼
                ┌───────────────────────┐
                │    Food Description   │
                └───────────┬───────────┘
                            │
                            ▼
                ┌───────────────────────┐
                │         Cart          │
                └───────────┬───────────┘
                            │
                            ▼
                ┌───────────────────────┐
                │    Payment Process    │
                └───────────┬───────────┘
                            │
                            ▼
                    ┌──────────────┐
                    (    Logout    )
                    └──────────────┘
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A system architecture or system is the conceptual model that define the stucture, behaviour, and more views of a system. An architecture description is a formal description and representation of the system, Organized in the way that supports reasoning about the structure and behaviour of the system.

V.TRADITIONAL TECHNIQUE VS FOOD FAIRY

In traditional techniques,

The customer has to wait for a long time for buying the food which itself is a drawback in terms of time.The current system for food ordering in theatres is that the customers generally take order manually it is generally the time consuming process and also increase the workload to the staff. And from the available food products choose the food products which customers wants to order.

In Food Fairy,

This online application enables the end users to login online, select the food from the food products menu, read the food products menu and order food online. By just selecting the food that the user wants to have. The results after selecting the food from the food products menu will directly appear in the screen near the Food Counter who is going to take food order for you. By using this application, the work of the movie theater staff is reduced and we can also say that the work is nullified. The benefit of this is that if there is rush in the Movie theaters then there will be chances that the Theater Staff will be unavailable and the Customer can directly order the food products to the food counter online by using this application. The Customers will be given a username via QR Code to login.

VI.CONCLUSION

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using HTML & CSS usage, database connection using php, and management of database using MySQL. The purpose of this project was to develop a webpage/Application for Online food ordering systems in movie theatres. We learned how to test different features of a project also we learned php language in detail. Overall we have created website in focus of future food ordering system, this website will helpful to many people.

REFERENCES

[1.] Dong-Hee Shin, Jaemin Jung, Byeng-Hee Chang "The psychology behind QR Codes: User experience perspective" ,Science Direct, Computers in Human Behavior 28 (2012) pp 1417-1426.

[2.] C. Branigan (2001), Wireless, handheld solutions prevail at NECC 2001, retrieved January 10, 2007 from http://www.eschoolnews.com/news/showStory.cfm?ArticleID=2865.

[3.] Resham Shinde, Priyanka Thakare, Neha Dhomne, Sushmita Sarkar, "Design and Implementation of Digital dining in Restaurants using Android", in International Journal of Advance Research in Computer Science and Management Studies, Volume 2, Issue 1, January 2014.

[4.] G. Saidu, M. Momoh, A. S. Mindaudu,"Temperature monitoring and logging system suitable for use in hospitals, incorporating GSM text messaging", International Journal of Information Sciences and Techniques (IJIST) Vol.3, No.1, January 2013