



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 12 Issue: II Month of publication: February 2024

DOI: https://doi.org/10.22214/ijraset.2024.58378

www.ijraset.com

Call: © 08813907089 E-mail ID: ijraset@gmail.com

ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538

Volume 12 Issue II Feb 2024- Available at www.ijraset.com

An Innovative KOT Ordering System for Restaurants

Arshiyanaz Saiyad¹, Disha Aher², Manasi Mahajan³, Punam Rajguru⁴, Kishor Mahale⁵

1, 2, 3, 4</sup>Student of Information Technology, Department Of Information Technology, MET's Institute of Engineering, Nashik, India.

5Guide, Professor, Department Of Information Technology, MET's Institute of Engineering, Nashik, India.

Abstract: This study proposes a digital menu ordering system to address challenges in the restaurant industry's digital transformation. Traditional paper-based methods lead to losses and inefficiencies. The system, using QR codes, enables customers to register, log in, and order online, with features like suggesting popular dishes and online payments. Managers gain real-time oversight of orders, tables, and payments, supported by sales data visualization. By automating tasks, the system reduces errors, enhances service, and streamlines operations, offering a transformative solution to industry challenges in the digital era.

Keywords: KOT, QR Codes, Digital Menu Ordering System, Restaurant Industry Digital Transformation, Online Payments, Customer Experience, Efficiency Improvement, Order Tracking, Payment Processing.

I. INTRODUCTION

In the midst of a sweeping digital transformation within the restaurant industry, this study delves into the challenges faced by dining establishments, particularly the substantial losses attributed to traditional paper-based ordering methods in response, this research proposes a digital menu ordering system designed to revolutionize traditional processes. By harnessing the power of QR codes, the system enables customers to seamlessly register, log in, and place orders online.

II. METHODOLOGY

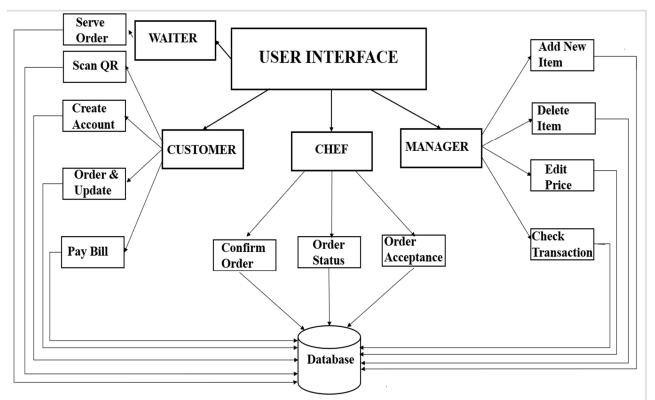


Fig 1: Block Diagram



ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538

Volume 12 Issue II Feb 2024- Available at www.ijraset.com

III. SYSTEM ARCHITECTURE

Below figure shows how the customers, manager, cashier, kitchen, and waiter are connected. The proposed system would have its server running in a cloud (Microsoft Azure) and employees of the restaurant can access the website in their mobile phones via internet while customers can access the website by scanning a QR code which will redirect them to the website. Employees can access the system as long as they are authorized. Any menu changes made by the manager will be seen by the others. Customers account orders will not be deleted as long as the cashier does not clear their table orders, allowing the customers to connect and disconnect.

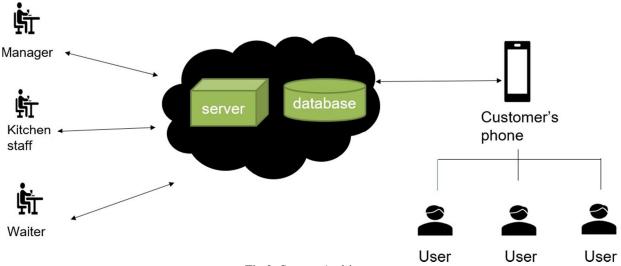
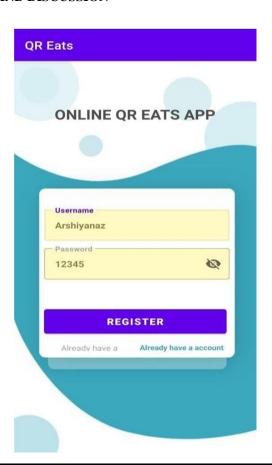


Fig 2: System Architecture

IV. RESULTS AND DISCUSSION



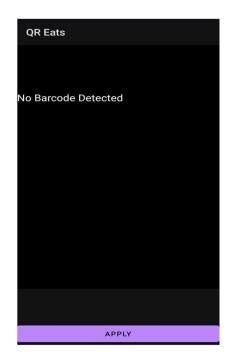




International Journal for Research in Applied Science & Engineering Technology (IJRASET)

ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 12 Issue II Feb 2024- Available at www.ijraset.com







V. CONCLUSION

The researchers were able to develop an innovative KOT ordering system for restaurants to improve the service quality of a casual fine dining restaurant in terms of fast ordering and payment. Issues on Responsiveness will therefore be addressed. Errors in order taking maybe prevented. The reports that the system will generate will also aid the management in decision making as and plan for sales and marketing strategies.

REFERENCES

- [1] K. Ryu and H. Han, "Relationships among hedonic and utilitarian values, satisfaction and behavioural intentions in the fast-casual restaurant industry," 2009.
- [2] Crawford, J. E. (2015). Computer implemented method and system for ordering food from a restaurant. Retrieved from https://patentimages.storage.googleapis.com/60/8b/70/bb1afc2623cce7/US9031867.pdf
- [3] M. L. Meuter, A. L. Ostrom, R. I. Roundtree, and M. J. Bitner, "Self Service Technologies: Understanding Customer Satisfaction with Technology-Based Service Encounters," J. Mark., vol. 64, no. 3, pp.50–64, 2000.
- [4] J. Spacey (December 20, 2015) "What is Self Service" Simplicable Business Guide. Retrieved from https://simplicable.com/new/self-service a restaurant. Retrieved from https://simplicable.com/new/self-service a restaurant. Retrieved from https://simplicable.com/new/self-service a restaurant. Retrieved from https://simplicable.com/new/self-service a retrieved from https://simplicable.com/new/self-service a retrieved from https://simplicable.com/new/self-service a retrieved from <a href="https://simplicable.com/new/self-service/new/self-service/new/self-service/new/self-service/new/self-service/new/self-service/new/self-service/new/self-service/new/self-serv
- [5] E. Lord (July 26,2017) "Self-service technology for restaurants" Lightspeed. Retrieved from https://www.lightspeedhq.com/blog/2017/07/next-generation-selfservice_technologyeveryrestaurant/
- [6] Kristin (July 14, 2014) "Most Common Restaurant Complaints Include Dirty Forks, Wrong Checks". Retrieved from https://www.thrillist.com/eat/nation/
- [7] Ramini, P.C.(2016).Restaurant Guest Service System And Method. Retrieved fromhttps://patentimages.storage.googleapis.com/db/84/dd/a12e605f30ba d6/US20160055598A1.pdf









45.98



IMPACT FACTOR: 7.129



IMPACT FACTOR: 7.429



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Call: 08813907089 🕓 (24*7 Support on Whatsapp)