



Tablet Restaurant on Web Application

¹J. Mohamed Jasidh, ²Ms. P. Ranjani

¹ II MCA, ² Assistant Professor

^{1,2} Department of Computer Science and Applications,

^{1,2} Periyar Maniammai Institute of Science and Technology, Thanjavur, Tamilnadu..

ABSTRACT

The Tablet Restaurant Web Application is a digital platform designed to streamline and enhance the restaurant dining experience for both customers and restaurant staff. The application provides customers with an easy-to-use interface to browse menus, place orders, and make payments directly from their table using a tablet device. Meanwhile, restaurant staff can manage orders, track inventory, and process payments, all from a centralized dashboard. The application is designed to be highly customizable, allowing restaurant owners to tailor their menus, prices, and promotions to meet the unique needs of their establishment. Customers can also provide feedback and ratings directly through the application, allowing restaurant owners to improve their offerings and service over time.

The Tablet Restaurant Web Application is built using modern web technologies, making it accessible from a variety of devices, including tablets, laptops, and smartphones. The application is also scalable, allowing restaurants of all sizes to leverage its features to improve their operations and enhance the dining experience for their customers. The Tablet Restaurant Web Application is a powerful tool that empowers restaurants to provide a modern, digital dining experience that meets the needs of today's consumer.

I. INTRODUCTION

The Tablet Restaurant Web Application is an innovative platform that combines the convenience of digital technology with the traditional dining experience to enhance the overall experience for both customers and restaurant staff. This web application is designed to help restaurants streamline their operations and improve their service by providing customers with an easy-to-use interface for ordering and paying for meals, while also giving restaurant staff a centralized dashboard to manage orders and track inventory. With the Tablet Restaurant Web Application, customers can browse menus, customize orders, and pay for meals directly from their table using a tablet device. This eliminates the need for traditional paper menus and wait staff, allowing customers to order and pay at their own pace without feeling rushed. In addition, the application can provide real-time updates on wait times and table availability, helping to reduce the amount of time customers spend waiting for a table or for their food to arrive.

II. LITERATURE SURVEY

2.1 Title: A Review Paper on Online Restaurant Management System

Author: N. M. Yawale, N. V. Pardakhe

Year: 2020

Description:

The system is implemented to reduce the manual work and enhances the accuracy of work in a restaurant. This system manages and maintains the record of customers and their order online. This Android App has been made in a user friendly interface. So that Customer can add and delete the food items easily. The menu card of different restaurant consists of various food varieties available in the restaurant. Through the place ordering menu, the customer can simply click and order the food. The messaging module tells the supplier to supply the particular food. Also tracking module track the order. The billing system prepares the bill according to the delivered food. This system entirely reduces the unnecessary time. Every order is associated with an individual seat at the table, and orders are built one customer at a time, just like on paper, but with greater accuracy. Items can also easily be shared by the whole table, moved or modified, and noted and the cost can be calculated in real time.

2.2 Title: E-Restaurant: Online Restaurant Management System for Android

Author: Vivek Ranjan, Nikesh Masiwal

Year: 2017

Description:

The simplicity and ease of access of a menu are the main things that facilitate ordering food in a restaurant. A Tablet menu completely revolutionizes the patron's dining experience. Existing programs provide an app that restaurants can use to feed their menus into iOS & Android based tablets and make it easier for the diners to flip, swipe & tap through the menu. We here aim to provide the restaurants with a tablet menu that would recommend dishes based on a recommendation algorithm which has not been implemented elsewhere. In addition to this we run the app on an Android based tablet & not on an iOS based tablet which is more expensive alternative. We use a cloud-based server for storing the database which makes it inexpensive & secure.

2.3 Title: Food Ordering System for Restaurants Using Android

Author: Pravin Adivarekar, Amogh Dalvi

Year: 2016

Description:

The popularity of restaurants is ever increasing. Accordingly, the number of restaurant-goers has increased too. Taking advantage of the advancement in technology, this project aims to apply a digital touch to the way restaurants function, in order to increase its popularity among customers. This paper aims at replacing the traditional food ordering system in restaurants with tablet food ordering. The customer, on entering the restaurant and occupying his desired table, will be welcomed with a tablet fixed at his table. He will then select his desired meal and his confirmed order will be sent directly to the kitchen. Once his meal is ready, it will be delivered by the waiters to the corresponding table. The customer can post his feedback depending upon his experience. The customer's login credentials and order history are saved in a central database. This solution speeds up the food ordering process and is also an attractive, error free method thanks to the digital aspects involved

2.4 Title: Tablet PC in restaurant

Author: Ali Adil Ali, Hussain Falih Mahdi

Year: 2013

Description:

The use of tablet PCs in restaurants has become increasingly popular in recent years. This technology has revolutionized the way customers order their food and interact with their servers.

In this paper, we will explore the benefits of tablet PCs in restaurants. We will discuss how they enhance the customer experience by providing a user-friendly interface, reducing wait times, and allowing for customized orders.

Furthermore, we will examine how tablet PCs benefit restaurants by improving order accuracy, reducing labor costs, and increasing efficiency. Additionally, we will explore potential concerns surrounding the implementation of this technology, such as data security and the impact on traditional service models.

Overall, we conclude that the use of tablet PCs in restaurants provides significant advantages for both customers and businesses. As technology continues to evolve, we anticipate that this trend will only continue to grow in popularity.

2.5 Title: Investigating technology readiness and behavioral intention on tablet-based menu ordering experience among young adults

Author: Anshul Garg

Year: 2018

Description:

Customers these days would like to know more about what they are getting on their table from perusing the menu. At the same time, they are presently more health conscious and requesting for dietary information and nourishment claims from the eateries. It is in any case incomprehensible to stuff all the data about food items in a single menu card. Else, it will enormously move the burden to clients who will be attempting to be conclusive in choosing their meals. Space limitation on the menu cards, in any case, has incited numerous foodservice operations to constrain the utilization of expressive wording and depend upon their servers to verbally illuminate the menu to the clients. Due to the limitations and issues, numerous foodservice operations have turned to innovations to enhance the menu ordering understanding and the service delivery system as a whole as concurred by (Nyheim & Connolly, 2012; Nykiel, 2001; Oronsky & Chathoth, 2007; Wang & Qualis, 2007). The establishment of tablet menus in a restaurant is apparently one of the foremost imperative and highly promoted undertakings within the current modern nature of the hospitality division. The menu is now not in the paper frame but too flourish in a digital form in many restaurants. (Rousseau, 2011) included that with the increment within the significance of technology, there has been an increment within the utilization of tabletop and handheld food ordering gadgets.

III. PROBLEM DESCRIPTION

For restaurant staff, the Tablet Restaurant Web Application provides a powerful tool for managing orders and inventory, reducing errors and delays, and improving the overall efficiency of the restaurant. The application can also help to reduce waste and minimize overstocking by providing real-time inventory tracking and analysis. A modern solution that helps restaurants meet the needs of today's consumers by providing a seamless, digital dining experience that enhances the traditional restaurant experience.

EXISTING FARMWORK The existing restaurant ordering and payment system typically involves traditional paper menus and wait staff taking orders manually. Customers need to wait for their turn to order, which can result in longer wait times, especially during busy hours. Once the order is placed, wait staff manually enter the order into a point-of-sale (POS) system or communicate it to the kitchen staff. This process can be time-consuming, prone to errors, and often results in delays in getting orders to customers. In addition, traditional systems make it difficult to track inventory and provide real-time updates to customers about wait times and table availability. Moreover, the traditional payment process involves wait staff bringing the bill to the table, customers reviewing the bill, and then either paying with cash or credit card. This process can also result in long wait times, especially during peak hours. Overall, the traditional restaurant ordering and payment system can be inefficient, error-prone, and result in a poor customer experience, especially during busy hours. The existing system lacks the convenience and efficiency of modern technology that today's consumers expect. This is where the Tablet Restaurant Web Application can provide a more efficient and convenient solution.

PROPOSED FARMWORK The proposed system for a tablet restaurant web application is a software solution designed to streamline restaurant operations and enhance the customer dining experience. The system is built on a web application platform and optimized for use on tablets, allowing restaurant staff to take orders and manage tables with ease. A user-friendly interface for customers to browse menus, place orders, and pay for their meals. It also includes features such as table management, inventory tracking, and reporting tools for restaurant managers and staff. The system can be customized to fit the unique needs of different restaurant types and sizes. It manages orders, tracks inventory, and monitors customer feedback. The system can also help reduce errors in order taking and improve table turn-over times, leading to increased revenue and customer satisfaction. A modern solution for restaurants looking to improve their operations and enhance the customer dining experience. The proposed Tablet Restaurant Web Application is a modern digital platform that addresses many of the limitations of the existing restaurant ordering and payment system. The application streamlines the ordering and payment process, reduces errors, improves efficiency, and provides a more personalized and convenient experience for customers.

IV. IMPLEMENTATION

1. **menu display** The application should display the restaurant's menu with images and descriptions of each dish. The menu should be easy to navigate and should allow customers to filter dishes based on categories such as appetizers, entrees, and desserts.

2. **ordering** The application should allow customers to place orders directly from their tablet. Customers should be able to select the items they want to order, specify any special instructions or modifications, and add the items to their order.

3. **payment process** The application should allow customers to pay for their order using a secure payment gateway. The application should also allow customers to split their bill if they are dining with others. 4. **table management** The application should allow restaurant staff to manage tables and track orders. Staff should be able to assign tables to customers, view the status of orders, and update orders as necessary.

5. **customer feedback** The application should allow customers to provide feedback on their dining experience. Customers should be able to rate dishes and leave comments on the quality of food and service.

V. CONCLUSION & FUTURE WORK

In conclusion, a tablet eatery web operation can give an accessible and effective way for guests to order and pay for their refectations, while also furnishing precious tools for eatery staff to manage tables, track orders, and collect feedback. The operation should include features similar as menu display, ordering, payment processing, table operation, integration with the POS system, client feedback, fidelity programs, and social media integration. By using these features, caffs can enhance the dining experience for their guests and ameliorate functional effectiveness, eventually leading to increased client satisfaction and profitability. User Authentication Implementing stoner authentication is essential for securing the operation and icing that only authorized druggies can pierce it. druggies can produce an account, log in, and pierce their order history and other relevant information. Responsive Design The operation should be designed to be responsive and mobile-friendly, so that it can be penetrated from any device with a web cybersurfer. This would insure a harmonious stoner experience across all bias.

REFERENCES

- [1]. N. Sriskanthan and Tan Karand. "Bluetooth Based Home Automation System". Journal of Microprocessors and Microsystems, Vol. 26, pp.281-289, 2002
- [2]. Y.R.Dhumal," Green House Automation using Zig bee and Smart Phone", International Journal of Advanced Research in Computer
- [3]. Science and Software Engineering Research Paper, Volume 3, Issue 5, May 2013

-
- [4]. Soyoung Hwang and Donghui Yu, "Remote Monitoring and Controlling System Based on Zig Bee Networks", International Journal of Software Engineering and Its Applications Vol. 6, No. 3, July, 2012
- [5]. Sweatha K N, "ADVANCE HOME AUTOMATION USING FPGA CONTROLLER, International Journal of Advanced Research in Computer and Communication Engineering Vol. 2, Issue 7, July 2013.
- [6]. Asim S, Daniel S, Junichi F and Neema M, "Sensay: A context-aware mobile phone," Proceedings, seventh IEEE International symposium on Wearable computers, pp.248-249, 2003.
- [7]. Bandra U, Bandra P, "Tagciti: A practical approach for location-aware and socially relevant information creation and discovery for mobile users," IEEE International symposium on Wireless communication systems, Reykjavik, pp.118-122, 2008.
- [8]. Brones T, Costa P, D. Etter R, "A rule based approach towards context-aware user notification services," IEEE International conference on Pervasive service, pp.281-284, 2006.
- [9]. Fan Jiang and Saoping Ku, "How to display the data from database by List view on Android," second International workshop on Intelligent Systems and Applications (ISA), 2010