

International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal)

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# FOOD ORDERING SYSTEM

# Kalyan V Giram\*1, Rohit K Pokale\*2, Aditya P Narale\*3, Dhangekar TP\*4

\*1,2,3,4Department Of Diploma In Computer Engineering, Shri Chhatrapati Shivaji Maharaj College Of Engineering, Nepti, Ahmednagar, India.

# **ABSTRACT**

The advancement in information and communication technology has greatly influenced the business transactions. The adoption of wireless technology and emergence of mobile devices has led to automation in many industries. Business in restaurant can also be improved with the combination of wireless and mobile technologies. The competition in restaurant business has increased, and also the malfunctions in the methods of taking orders are increasing. Thus an online system is proposed to improve the restaurant management. A system which will allow customers to order food from their smartphones where a digital menu will appear for them on their devices with much more features than the traditional method of ordering food. There will be no need to wait for waiters. The objective is to prepare a system which will be capable of taking orders from the customers and the compute the bills at the same time. To provide some key features like feedback system and review system. The customer will also be able to track his orders. Also to provide better management to the restaurant with proper database. This system will thus provide better service to customers and help restaurant to know where they lack, through the feedback systems. Also it will save paper in huge quantity thus this system will be a nature friendly one. Thus this system will overcome almost all of the disadvantages from the traditional method of ordering food.

Keywords: Wireless Communication, Restaurant Management.

#### I. INTRODUCTION

The Food Ordering System is a proposed system for restaurant, to bring ease to the restaurant management. When a customer comes to the restaurant, instead of waiting for the waiters to order food, he can just scan the QR code, present on his table, which will redirect him to a local website, where he can order whatever food items he wants on his fingertips, during ordering the dishes, he also can see the ratings of the dishes, which are rated by the previous customer on trying that particular dish as well as he can see the price of the dishes.

Thus it will help the customer to know the dishes restaurant is famous for. Customer can add those items he wants to order in cart and order the items at once also he will see the bill for the payment there itself computed by the system.

After ordering of food, the order will be sent to the billing section and the chef. Here there will be two logins provided to the chef and the billing counter, and only the necessary information will be shown to each, for example, chef will only see the table number, dishes and the quantity of the dishes whereas the billing counter can see the details of the customer provided by the customer, and also the information chef can see along with prices and also he will have the authority to edit the menu and prices of the dishes from the database.

Through all this process, the customer will receive the updates. For example, your order is getting ready, your order is ready, your order will come within minutes, etc. After the customer finishes his meal, if he wants to give some feedback or suggestions to the restaurant, he also can do that and post it in the feedback section. And proceed to his bill, bill will be visible to him as well as to the billing counter on his system, customer will pay at the counter, and can take a screenshot of the page for receipt (if he wants) and he will receive the printed bill at the counter as well. Whereas in case of restaurants, this data will be stored in database. The billing person will have the authority of finding records from database, i.e. any bill between specific mentioned dates.

#### II. METHODOLOGY

#### 1. Administrative Operations: User Control:

Creating, editing, and removing user accounts are all within the admin's power.

The administrator can manage account-related problems, change passwords, and confirm user identities.

Data Oversight: Keep an eye on and administer the database to guarantee the security, correctness, and integrity of the data.



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Check the system logs and user activity on a regular basis for irregularities.

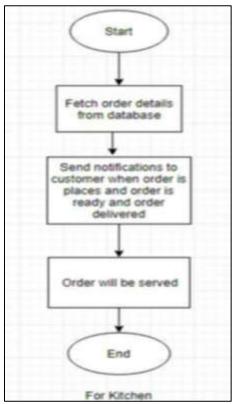
System Configuration: The administrator is able to modify software, adjust system settings, and oversee system resources. Adhere to pertinent requirements and put security procedures into action.

#### **DATA FLOW DIAGRAM:**

# **MANAGER/BILLING:**



CHEF:

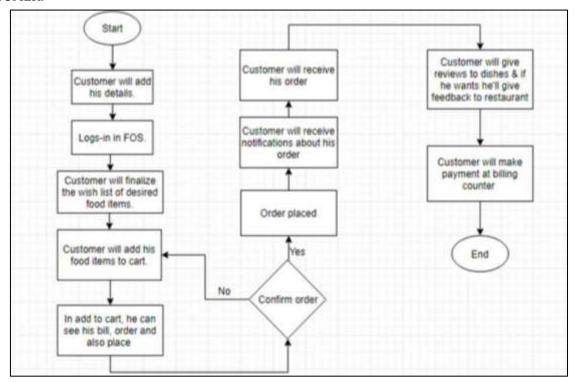




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# **CUSTOMER:-**



# 2. Technology Stack

# For Developers:

#### 1) Hardware:

- A computer system with following specification: 8 Gigabytes of RAM, 1 Terabytes of Harddisk, Intel's i5 5th gen Processor
- An android Phone with following Specification: 4Gigabytes of RAM, 64 Gigabytes of storage, Snapdragon's 636 Octa core Processor

#### **2)** Software:

- Eclipse IDE for Java EE Developers: A Tool for Java Developers creating Java EE web applications, including a java IDE.
- MySQL: MySQL is an open source relational database system for databases
- Apache Tomcat Server(V 9.0.27): Tomcat 9.0.27 The Apache Tomcat software is an open source implementation of the Java Server Pages.
- Web Browser: Web Browser to load the page.

# For Clients:

# a) Hardware:

- 2 Computer systems with following specification: Minimum 4 Gigabytes of RAM, Minimum 200 Gigabytes of Harddisk recommended, Minimum Intel's i3 Processor
- Router: To connect all devices in a network.

# **b)** Software:

- MySQL: MySQL is an open source relational database system for databases.
- Apache Tomcat Server(V 9.0.27): Tomcat 9.0.27 The Apache Tomcat software is an open source implementation of the Java Server Pages.
- Web Browser: Web Browser to load the page.



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#### For Custumer:

- a) Hardware:
- Any Devices like an Andriod phone, Tablet or Laptop.
- **b)** Software:
- Devices should have web browser to load the web pages.

# III. FUTURE SCOPE

In future, we are planning to provide an environment where the smart phones will be kept on each table, so that the customers don't have to use their smartphones, and even the problem of the customers who don't have a smartphone will be solved.

Payment option will be added to the system, so that when the customer finishes his meal, he doesn't have to go to the counter to pay, but he will pay from his table and the printed receipt will be delivered to him.

#### IV. CONCLUSION

Thus we conclude that, by implementing this system, it will minimize the number of employees at the back of the counter.

Also the system will reduce the labour cost.

It will attract customers and also will increase efficiency of maintaining the restaurant's ordering and billing system.

As there are lots of orders at a time, there is possibility of human error during calculations or taking orders, but there is no possibility for mistakes with machines.

It will avoid long queues at counter due to speed of execution.

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