**Kitchen Kart**

**A Minor Project Synopsis Submitted to**



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**SYNOPSIS**

1. **TITLE**

Kitchen Kart

1. **INTRODUCTION**

One of the life human pleasure and pride is eating. In this era, everything has changed a lot when talking about food habits. There are a lot of trading activities that growing up right now such as restaurants, hotels and services. For a restaurants, service quality and customer satisfaction are important for keeping their business at a stable level in the market. Restaurant is a place for people to eat or buy a foods and beverages. People who is always busy with their life especially the career person will choose to eat at the restaurant rather than cook by themselves. If they cook the food by themselves, it will waste their time and make them feel exhausted. The restaurant need to serve a quality and good services to their customers make sure the customers satisfied with services that provided. Most of the restaurant in our country still use the waiter to take customer orders. This method is still consider efficient if the restaurant are not crowded, but however if the restaurant are crowded with the customers, it will arise a lot of human error that made by the waiter such as missing of order papers, mistake in noting down the order, or the restaurant may not have sufficient waiters to take the order from customers. Therefore, this project proposes a Food Ordering System Using QR Code named as **“KITCHENKART”** to address the stated problem. This application will be a mobile application for the customers and web application for the staff of the restaurant. The customers need to use their phone with the application that has been installed to scan the QR code from the menu. Then, the customers must submit the order to make a confirmation and it will directly send to the kitchen. The staff at the restaurant can manage the menu such as adding new items, delete some items or update the menu easily. By using this system, the staff of the restaurant can make changes to the menu easily. Besides, the ordered menu list can also be seen in this system. The staff will prepare the food based on the ordered menu that will be listed out on the screen.

* 1. **PROJECT BENEFITS**

1. No delay while ordering, your time is our priority. Now don’t wait to give your orders.
2. Displays the real time information in the app like seat availability & available dishes.
3. Fast ordering and checkout, hence efficient and effective.
4. With our partnered restaurants , we double assure safety & hygiene.

**2.2 PROJECT SCOPE**

The scope of this project is divided into 4 categories :

1. **Customer/User**

* Customer able to check the food that is available in restaurant.
* Customer scans the QR code on the table to receive menu & order the food.
* Customer can easily analyze his/her  expenses.

1. **Staff**

• Staffs serves and send the food to the specified table no ordered by the customer.

• Staffs can view the updated status order from guest and able to know whether the guests have already orderrd the food or not.

1. **Admin**

• Admin will add new menu, delete menu and update the food menu.

• Admin can view the report and status orders that has updated from staff .

• Admin will generate the QR Code.

Application Support & Maintenance after deployment to production

**PROBLEM STATEMENT**

Waiter is the middle person between the customer and the department kitchen staff. Waiter tends to make human error such as miscommunication with customers. Because of this miscommunication, it will affect the process of preparing the food. In this case, the customer feel unsatisfied if the ordered food are not same with the food that served to their. Secondly, sometimes the customer need to face with the problem that need to wait a quite long time for the waiter to come and take the order. This problem will give negative effect for the restaurant because maybe that is the last time for the customer to come to that restaurant. This problem can be solved with this system because the customer can taking the order by themselves without need to wait for the waiter anymore. 3 Lastly, usually the restaurant used to take order by using the paper and the paper will passing to the kitchen department. This may cause the misplaced of the ordered paper and the waiter need to take a new order again from the customers. This problem will solved if have the application that the kitchen can view the ordered menu in the systematic way without using any paper.

1. **OBJECTIVES**

To achieve the aim of the project, the following objectives are outlined:

1. To study the functionality of each existing food ordering system owned by the restaurants.
2. To develop food ordering system using QR code to avoid any mistake that might happen while ordering the food.
3. To test the effectiveness of the Food Ordering System using QR Code by the user in restaurant to ensure that it meet requirements.Getting whole info about the restaurants menu card on simply scanning a QR Code.
4. To analyze the current system features and problems before developing the new proposed system.
5. To design a user-friendly system that will surely satisfied the guest service.
6. To develop system using QR Code as a sensor feature to receive guest order.

**5. INTENDED USER**

The intended users who wants delivery at home, visit restaurants, pick up food or want to book future orders .

**6. EXISTING SYSTEM**

Various ongoing applications like uber eats, zomato, swiggy, etc. provides a way to order food online where we login into the app that works via client server architecture.

First of all in these apps the end user has to send data about his/her login credentials then these credentials will be sent to the server, then server verifies it and provides homepage of the app to the user.

Then user can directly search for various food items or can search for restaurants where the information about restaurants also comes from the database and the menu card of the restaurants will be loaded in the end user side i.e., after checking the detailed database from the server a response is reverted back to the user. Then, select your preferences & place your order and after sometime your order will be at your doorsteps.

**6.1 PROCESS FLOW**

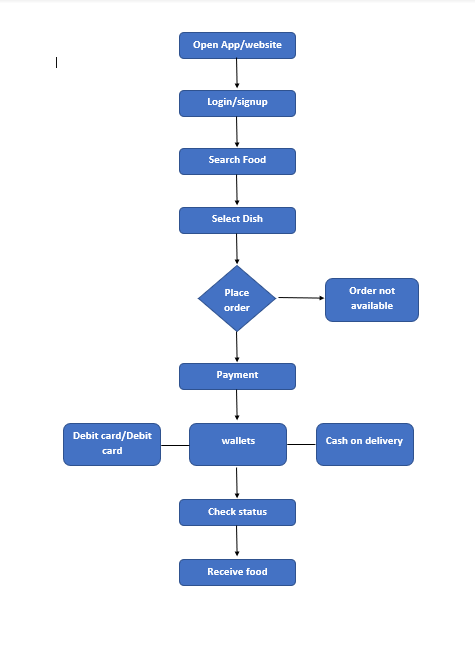
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Figure 1:Process Flow of Existing System – “Zomato”

**6.2 LIMITATIONS**

Some limitations of the existing system are:

1. Existing system is not fully automated.
2. Time consuming process i.e. unavailability of information on time.

**7. PROPOSED SYSTEM**

The proposed system is "Kitchen cart", where the user can fetch the information that whether the seats are available or not at any preferred time slot. Then second thing is user makes a request by entering the name of the restaurant, this data will be sent to the server. Next,this information would finally be sent to the end-user who made the request without logging in the application. We would timely store the information on the database regarding the dishes and drinks available at the time of order or available dishes will be shown in real time environment.

Most importantly, this application provides a way when you get the table inside the restaurant to place your order just by scanning a QR Code placed on the table which directly connects the end user to the chef and billing counter. Now for any further requests that the user makes for any additional orders the app will directly places the request order to chef without sending message through waiter and automatically adds the price & tax for each additional step & updates the bill at each requesting order made by the end user(customer).

Also the second part of the app will be for chef where the chef will receive orders directly from each table. He wont need to wait for the waiters to come and tell what has been ordered from which table no.

**7.1 SYSTEM FEATURES**

1. In “Kitchen Kart” ,the QR Code is going to be implemented.
2. Order food on real time.
3. All features can be accessed through the android app.

**7.2** **PROCESS FLOW**

**Diagram

Description automatically generated**

Figure 2: Process Flow Of “Kitchen Kart”

**7.3 HARDWARE REQUIREMENT**

1. Laptop

2. Processor Intel Core i3-4030U @ 1,90GHz, Memory 4 GB RAM

3. Operating System Windows 10, System Type 64-bit operating system

4. Android Mobile Phone

• Used to scan QR Code

• Smartphone

* 1. **SOFTWARE REQUIREMENT**

1. Android Studio
2. mySQL Server
3. React native

**8. EXPECTED OUTCOMES**

1. Direct order from the app, customize or add further orders in real-time.
2. No need to wait in a queue or for a waiter.
3. Trouble free tip and pay through your app directly.

**9. CONCLUSION**

This is to conclude that the project that we undertook was worked upon with a sincere effort. Most of the requirements have been fulfilled up to the mark and the requirements which have been remaining, can be completed with a short extension.This project would definitely satisfy all the requirements of the people and would be beneficial for all.

**9.1 LIMITATIONS**

1. The Internet is required.
2. Can only be used though an Android Smartphone.
   1. **FUTURE ENHANCEMENTS**

Introduction of Machine Learning.

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