

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



**A MINI PROJECT REPORT ON
SIMPLE FOOD ORDER SYSTEM
IN
INFORMATION SCIENCE & ENGINEERING
By**

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CERTIFICATE

This is to certify that the Mini Project entitled **“Simple Food Order System”** has been successfully completed by

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Declaration

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hereby declare that the dissertation entitled, **Simple Food Order System** is completed and written by us under the supervision of my guide **Mr. SUDHARSHANA K, Senior Assistant Professor, Department of Information Science and Engineering, Alva's Institute of Engineering And Technology, Moodbidri, DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the academic year 2020-2021. The dissertation report is original and it has not been submitted for any other degree in any university.

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ABSTRACT

Our proposed system is an online food ordering system that enables ease for the customers. It overcomes the disadvantages of the traditional queueing system. Our proposed system is a medium to order online food hassle free from restaurants as well as mess service. This system improves the method of taking the order from customer. The online food ordering system sets up a food menu online and customers can easily place the order as per their wish. Also with a food menu, customers can easily track the orders. This system also provides a feedback system in which user can rate the food items. Also, the proposed system can recommend hotels, food, based on the ratings given by the user, the hotel staff will be informed for the improvements along with the quality. The payment can be made online or pay-on-delivery system. For more secured ordering separate accounts are maintained for each user by providing them an ID and a password. General

Currently in restaurants, a waiter takes order manually and goes to kitchen to explain the cook to prepare food as per order. Once cook cooked, waiter gets it and serves the customer. Customer again orders next order, waiter again repeats the same and serves the customer. At last waiter submits bill and customer needs to pay it at counter. It is time consuming and manual task. With the advent of GPS technologies more and more applications are getting developed on various independent platforms relating to services offered by smart devices such as smartphones, tablets, Pc's based on locations fetched by the GPS (Global positioning system). And with the world going online for purchasing their day to day basic things the need of clubbing GPS based services with other important sectors of the economy such as retail, hotel industry is the need of the fast becoming world. We would like to use location based services to help user to find good restaurants from its current place. Here we would like to propose location based food ordering and parcel system which will help user to place order from its location and save his/her time by making him the facility of paying his incurred amount online .Ones the user places his/her order, the application on the client side forwards the order to the server for checking the if the order is viable or not. After the order is verified by the server, a message is sent to the restaurant administrator consisting of the order and the delivery address of the user.

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CHAPTER 1

INTRODUCTION

The online food ordering system sets up a food menu online and customers can easily place the order as per they like. Also with a food menu, online customers can easily track the orders. The management maintains customers database, and improve food delivery service. The Restaurant management systems motivates us to develop the system. There are various facilities provided so that the users of the system will get service effectively. Also, the system considers Restaurants as well as Mess facility to the customers. Again, the idea comes that mostly mess users are person who are shifted for various reason in new cities. So, they are interrelated. Increasing use of smart phones is also considered as a motivation, so that any users of this system get all service on single click. Another motivation can be considered as the system will be designed to avoid users doing fatal errors, users can change their own profile, users can track their food items through GPS, users can provide feedback and recommendations and can give ratings, it will give appropriate feedbacks to Restaurants / Mess service providers. ratings, it will give appropriate feedbacks to Restaurants / Mess service providers. The proposed system will provide the flexibility to the Customers/Users to order from either Restaurants or Mess. It will also provide Recommendations to the customers from the restaurants/mess owners uploaded on a daily basis. In the proposed system, there will be no limitation on the amount of order the customer wants. Also, same application can be used as a Startup Business for the developers. It will provide real time customers feedback and ratings along with the comments to the restaurants/mess owner. It gives appropriate feedbacks to users, so if there is any error happened, then there will be a feedback dialog toward users. The proposed system is designed to avoid users doing fatal errors and inappropriate action. Scope of proposed system is justifiable because in large amount peoples are shifting to different cities so wide range of people can make a use of proposed system. The system/interface will take input from the user. The major attributes that will give input to the dataset are: name, address, email-Id, mobile no, other personal related values, etc. The output will include user/customer's Order, Bill, Feedback and Payment options. Initially there will be 10 to 12 restaurants and mess services considered inside 2 to 3 areas. The reason why to choose this project is the idea behind project that is to solve problem of people which they are facing when they shift to different city. The system is not only for user but also for provider who provides food service. This system is for making efficient communication between consumer and producer of the food system which will then leads to the ideal and effective system.

1.1 OBJECTIVE

The main objective of the food ordering system to manage the details of item category, food Delivery, Address, Order, Shopping cart, it manages all the information about item category, customer shopping cart, item category. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build the application program to reduce the manual work for managing the item category, food, customer, delivery address. It tracks all the details about the delivery address, order shopping cart.

Functionalities provided by online food ordering system are as follows:

- Provides the search facilities based on various such as food item cart order, customer
- Online food ordering system also manages the delivery details online for order details, customer details, food item.
- It tracks all the information of category, delivery, Order etc.
- Manage the information of category
- Shows the information and description of food item, cart
- To increase efficiency of managing the food item category
- Manage the information of food item
- Manage the information of food order

1.2 PROBLEM DEFINATION

To overcome The online food ordering system sets up a food menu online and customers can easily place the order as per they like. Also, the online customers can easily track their orders. The management maintains customer's database, and improve food delivery service. This system also provides a feedback system in which user can rate the food items. Also, the proposed system can recommend hotels, food, based on the ratings given by the user, the hotel staff will be informed for the improvements along with the quality. The payment can be made online or cash or pay-on-delivery system. For more secured ordering separate accounts are maintained for each user by providing them an ID and a password.

CHAPTER 2

LITERATURE SURVEY

[1] An automated food ordering system is proposed which will keep track of user orders smartly. Basically, they implemented a food ordering system for different type of restaurants in which user will make order or make custom food by one click only. By means of android application for Tablet PCs this system was implemented. The front end was developed using JAVA, Android and at the backend MySQL database was used.

[2] Customer using a Smartphone is considered as a basic assumption for the system. When the customer approach to the restaurant, the saved order can be confirmed by touching the Smart phone. The list of selected preordered items shall be shown on the kitchen screen, and when confirmed, order slip shall be printed for further order processing. The solution provides easy and convenient way to select pre-order transaction form customers.

[3] There was an attempt to design and implementation of digital dining in restaurants using android technology. This system was a basic dynamic database utility system which fetches all information from a centralized database. Efficiency and accuracy of restaurants as well as human errors were improved by this user-friendly application. Earlier drawbacks of automated food ordering systems were overcome by this system and it requires a onetime investment for gadgets

[4] An application of integration of hotel management systems by web services technology is presented. Ordering System Kitchen Order Ticket (KOT), Billing System, Customer Relationship Management system (CRM) are held together by the Digital Hotel Management. Add or expand of hotel software system in any size of hotel chains environment was possible with this solution

[5] Research work aims to design and develop a wireless food ordering system in the restaurant. Technical operations of Wireless Ordering System (WOS) including systems architecture, function, limitations and recommendations were presented in this system. It was believed that with the increasing use of handheld device such as PDAs in restaurants, pervasive application will become an important tool for restaurants to improve the management aspect by minimizing human errors and by providing higher quality customer service.

CHAPTER 3

SYSTEM DESIGN

In this phase ,a logical system is built which fulfils the given requirements .Design phase of software development details with transforming the clients's requirements into a logically working system normally,design is perform the following in the following two steps

1 . Primary Design phase:

In this phase the system is designed at block level.the blocks are created the basus of analysis done in the problem identification phase different blocks are created for different functions emphaseis is put on minimizing the information flow between blocks. Thus,all activities which require more interaction are kept in one block.

2.Secondary Design Phase:

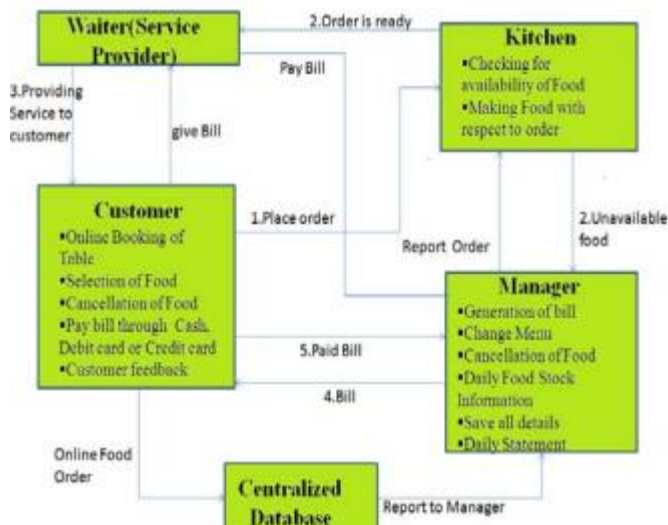
In the secondary phase the detailed design of every block is performed.

The general tasks involved in the design process are the following :

- 1.Design various blocks for overall system processes.
- 2.Design smaller ,compact and workable modules in each block.
- 3.Design various database structures.
- 4.Specify details of program to achieve designed functionality.
- 5.Design the form of inputs ,and outputs of the system.
- 6.Perform documentation of the design.
- 7.System reviews.

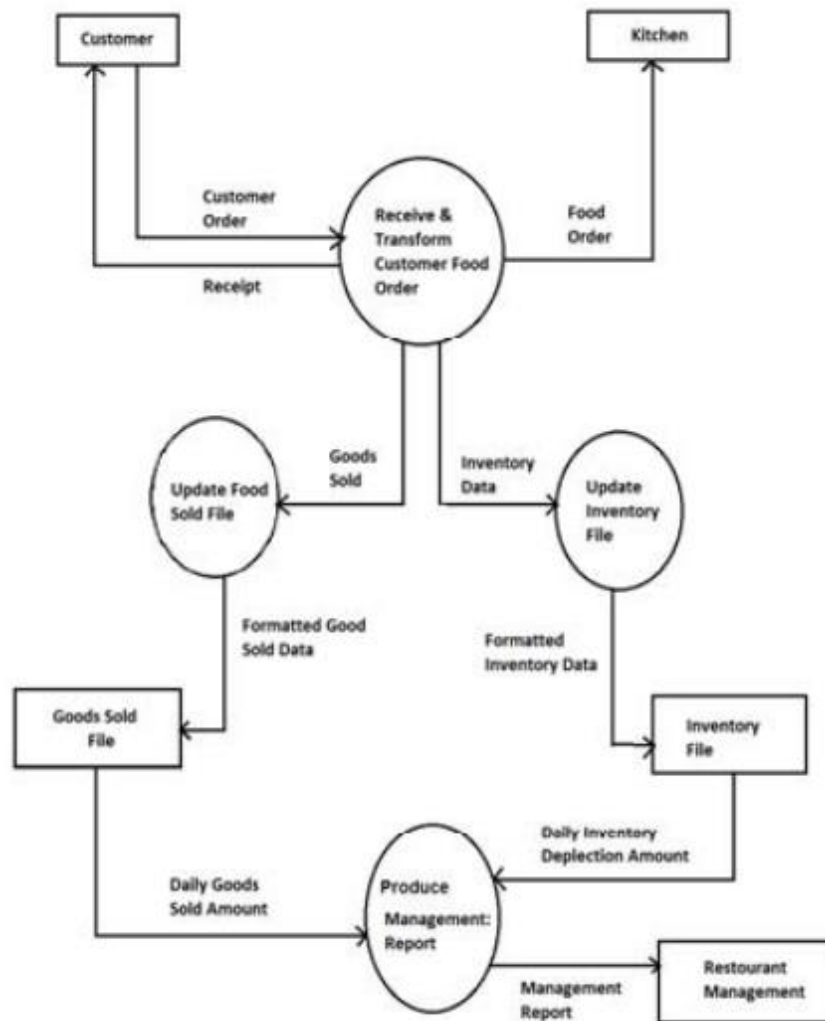
1.3 SYSTEM ARCHITECTURE

The system architecture of customizable online food ordering system using web based application is shown in this figure . The architecture includes the three main areas of restaurant: the Server, the Kitchen, and the Cashier counter. Conceptually this system is built using following components:



System Architecture

- First customer has to be done registration after registration he/she will get password and user name then he/she can order process .Bill is automatically goes to that particular user
- The manager should be able to control the function of whole restaurant from a single desktop/tablet.
- All the ordered items are displayed on the screen giving the table number below.
- They should be sufficiently large to be seen by chef at a reasonable distance.
- At the time of registration customer has to be enter the contact number & other information ,this contact number & other information will saved in database. If there is any offer in restaurant then server will automatically send SMS to the customer.
- We are providing menu recommendation to the customer such as if customer order any menu then our system will shows related menus to that order.
- We also provide facility to the customer to give feedback about services of restaurant.



1.4 FLOW DIAGRAM

System Data Flow Diagram

The system architecture of customizable online food ordering system using web based application is shown in figure 2. The architecture includes the three main areas of restaurant: the Server, the Kitchen, and the Cashier counter. Conceptually this system is built using following components: The android application is used to make orders

- from tablet. The restaurant-owner's laptop/tablet will keep

- track of customer records and also customize menu using server application. The central database is used for restaurant-owner
- to store updated menu information and order details. Three main areas of restaurant are connected
- using wireless technology. The Android application is used to find out the
- location in restaurant according to its latitude and longitude.

CHAPTER 4

RESULTS

```
-----Carl's Jr. Fast Food-----  
Please Enter Your Name: anjali  
Hello anjali  
What would you like to order?  
-----Menu-----  
1) Pizzas  
2) Burgers  
3) Sandwich  
4) Rolls  
5) Biryani  
Please Enter your Choice: 1  
1) Chicken Fazita  
2) Chicken Bar BQ  
3) Peri Peri  
4) Creamy Max  
Please Enter which Flavour would you like to have?:1  
1) Small Rs.250  
2) Regular Rs.500  
3) Large Rs.900  
Choose Size Please:1  
Please Enter Quantity: 1
```

The customer can check the status of the order through the Order Status interface provided in the GUI of the application. We have developed the system application in such a way that the customer can order the food first and then enter the required credentials while checkout.

CHAPTER 5

CONCLUSION

In this project, we have presented a digital restaurants and inter-restaurant navigation using smart phones to customers. Instead of using PDAs to interface with customers, we are using smart phones or tablet to provide necessary interfaces for customer to view and order menu. With private login system, customers can view and make order and receive updates in real-time and collect receipts right from the smart phone itself. It allows customers to navigate the places or directions in restaurant and also it allows restaurant owners to manage orders from customers immediately whenever he or she logged in into the system. Our experience in developing digital restaurants and interrestaurant navigation using smart phones shows the capabilities of wireless communication and smart phone technology in fulfilling and improving business management and service delivery. This system is convenient, effective and easy so that it improves the performance of restaurant's staff.

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