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Online Food Ordering System

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Abstract: ***Online food ordering is a feature of our suggested system, which makes it convenient for customers. It eliminates the drawbacks of the conventional queuing mechanism. Our system is an easy way to order food from restaurants and get a mess service online. This system enhances the process of taking consumer orders. Customers can easily place orders as they like using the online meal ordering system, which sets up a food menu online. Additionally, clients can simply follow orders if there is a food menu. Additionally, this system has a feedback feature that allows users to rank the food products. Additionally, the suggested system can suggest restaurants and hotels based on the ratings provided by the user. The hotel personnel will also be advised of any quality and improvement issues. Both online and pay-on-delivery payment methods are available. By giving each user a unique ID and password, separate accounts are maintained for each user for more secure ordering.***
Keywords: Food Ordering System, Dynamic Database Management, Smart Phone

I. INTRODUCTION

Customers can easily place orders as they like using the online meal ordering system, which sets up a food menu online. Online clients can simply track orders if there is a meal selection available. The management keeps track of consumer information and enhances food delivery services. We are motivated to create the system by the mess management systems. To ensure that system users receive good service, a variety of facilities are offered. The system also includes Mess facilities for customers.The notion is born that people who relocate for various reasons to new cities make up the majority of mess users. They are hence connected. An additional incentive is the rising use of smartphones, which would enable all system users to access all services with a single click. Another reason to use the system is that it will be built to prevent users from making fatal mistakes; users can edit their own profiles; users can monitor their food using GPS; users can rate and comment on the system; and the system will deliver the proper feedback to mess service providers. There is a need for the system because there isn't a complete application that can satisfy the customer's needs by giving him meals from the mess service. People who frequently move between cities and towns will use the planned system. Additionally, it will be helpful for students who are studying in various cities.

The proposed method will give Customers/Users the freedom to order from Mess. Additionally, it will offer daily recommendations to the clients from the mess owners. There won't be any restrictions on how many orders a consumer can place under the planned method. The same application can also be utilised by the developers as a start-up business. It will give the mess owner real-time consumer ratings and comments in addition to client feedback. It provides users with pertinent feedback, thus if a mistake occurs, a feedback dialogue will be directed to users. Developers.

The suggested system is made to prevent users from acting inappropriately and making deadly mistakes. The scope of the suggested system is justifiable because many individuals are moving to different places, allowing a wide range of people to use it. The user will provide input to the system or interface. The key characteristics that will influence 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 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.

II. PROBLEM STATEMENT

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 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 mess based on the ratings given by the user. 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.

III. LITERATURE REVIEW

In 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 in which user will make order or make custom food by one click only. By means of android application this system was implemented.

In Customer using a Smartphone is considered as a basic assumption for the system. When the customer approach to the mess, the saved order can be confirmed by touching the Smartphone. 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.

In This system was a basic dynamic database utility system which fetches all information from a centralized database.

In research work aims to design and develop a wireless food ordering system in the mess. Technical operations of Wireless Ordering System (WOS) including systems architecture, function, limitations and recommendations were presented in this system

In along with customer feedback for a mess a design and execution of wireless food ordering system was carried out. It enables mess owners to setup the system in wireless environment and update menu presentations easily. Smart phone has been integrated in the customizable wireless food ordering system with real-time customer feedback implementation to facilitate real-time communication between mess owners and customers.

In Paper, the research work aims to automate the food ordering process in mess .Design implementation of food ordering system for mess were discuss in this paper. This system, implements wireless data access to servers. The android application on user's mobile will have all the menu details. Kitchen and cashier receives the order details from the customer mobile wirelessly. These order details are updated in the central database. The mess owner can manage the menu modifications easily.

In Paper, this research works on efforts taken by mess owners also to adopt information and communication technologies such as PDA, wireless LAN, costly multi-touch screens etc. to enhance dining experience.

IV. PROPOSED SYSTEM

To overcome the limitations of above system, an Online Food Ordering System based on Internet of Things is proposed. It is a wireless food ordering system using android devices. Android devices have gained immense popularity and have revolutionized the use of mobile technology in the automation of routine task in wireless environment. Android is a Linux based operating system for mobile devices such as smart-phones and tablets. To develop a reliable, convenient and accurate Food Ordering System is considered as a general Objective of the study. To develop a system that will surely satisfied the customer service will be considered as an objective. One of the Objective is to design a system that is able to accommodate huge amount of orders at a time and automatically compute the bill. To evaluate its performance and acceptability in terms of security, user-friendliness, accuracy and reliability is an important objective. To improve the communication between the client and customers is one of the objective. The figure.1 represents the simple system architecture of the proposed system: -

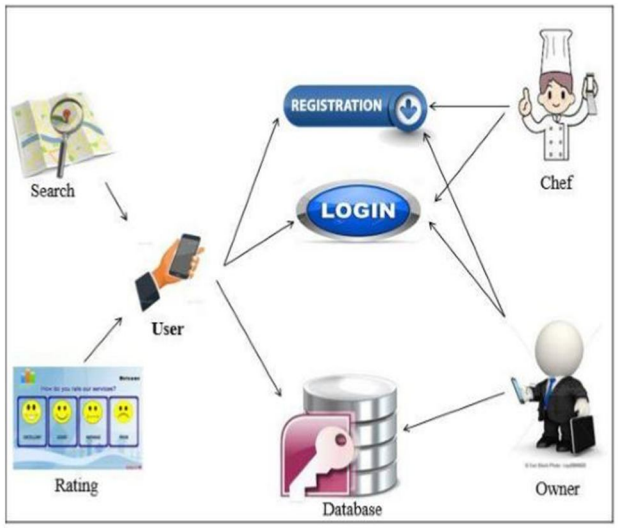

Fig.1: System Architecture

The architectural design consists of 3 main users: - Service Consumer, Owner of Mess and Employee of mess. When a person shifted to new city he has to find source for hygienic and quality food, so he/she will search and select mess or home-based food service based on his category and as well as service that is veg or non-veg.

Here the main function is, in what pattern user will search the service so for that purpose a part of Geo-Hashing Algorithm is used, and GPS system should be on.

Example of an Geo-Hashing:

Input:

```
{
    "mode": "encode",
    "latitude": 47.599240004249054,
    "longitude": -122.3333752155304
}
```

Output:

```
{
  "geohash": "c23nb1pt9v2n"
}
```

Person can have the facility to search service by location that is home location of the person is detected with GPS and according to selected option location of nearby service get searched. Another way for searching is by cost. Here user must give input in terms of rupees that in what range he/she need service per plate if there are any service provider within that area than the list will display.

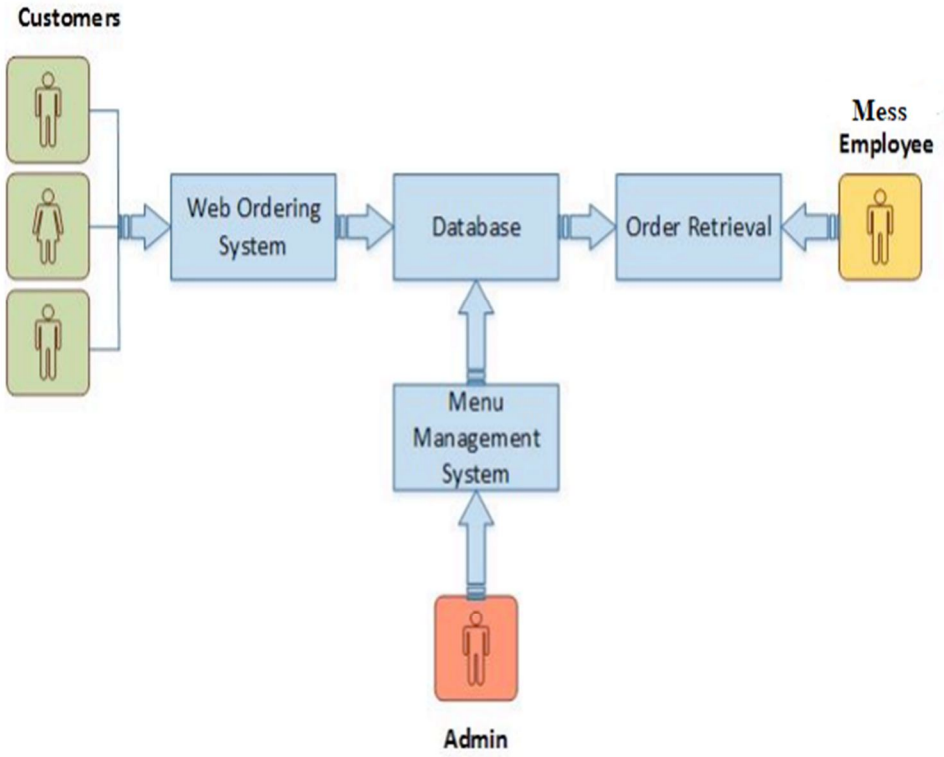

Fig.2: System Design

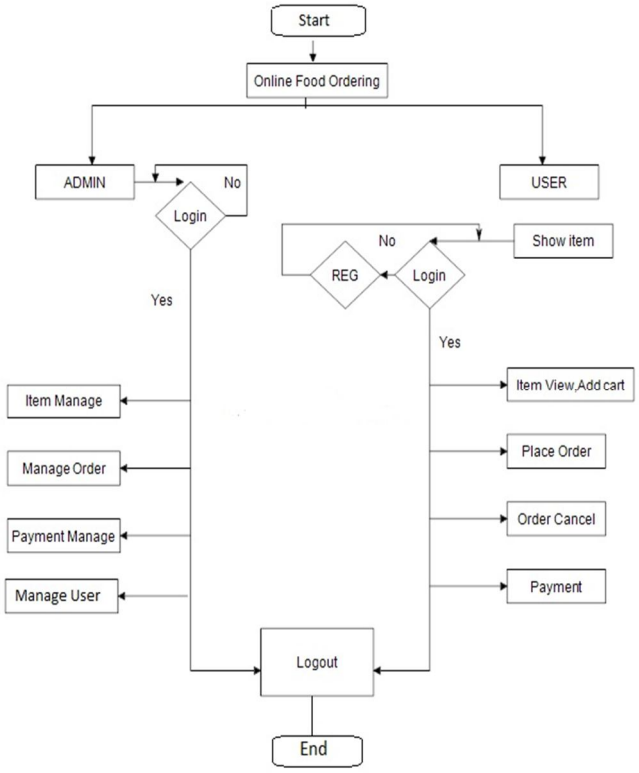

Fig.3: Flow Chart

User can also search by rating. The service that has rating is checked by user given rating and if matched it will give the list of service. Search can be done by accepting distance from user in which user need to search and displaying service provider within that distance. User can communicate to service provider with the help of message box and get notification from provider end if any. On the other end provider has facility to add or reject request from person who want to join the service.

V. CONCLUSION

Therefore, conclusion of the proposed system is based on user's need and is user cantered. The system is developed in considering all issues related to all user which are included in this system. Wide range of people can use this if they know how to operate android smart phone. Various issues related to Mess/Tiffin Service will be solved by providing them a full-fledged system. Thus, implementation of Online Food Ordering system is done to help and solve one of the important problems of people.

Based on the result of this research, it can be concluded: It helps customer in making order easily; It gives information needed in making order to customer. The Food website application made for mess can help them in receiving orders and modifying its data and it is also made for admin so that it helps admin in controlling all the Food system. With online food ordering system, a mess menu online can be set up and the customers can easily place order. Also with a food menu online, tracking the orders is done easily, it maintain customer's database and improve the food delivery service. The mess can even customize online menu and upload images easily. Having a menu on internet, potential customers can easily access it and place order at their convenience. Thus, an automated food ordering system is presented with features of feedback and wireless communication. The proposed system would attract customers and adds to the efficiency of maintaining the ordering and billing sections.

Scope of the 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.

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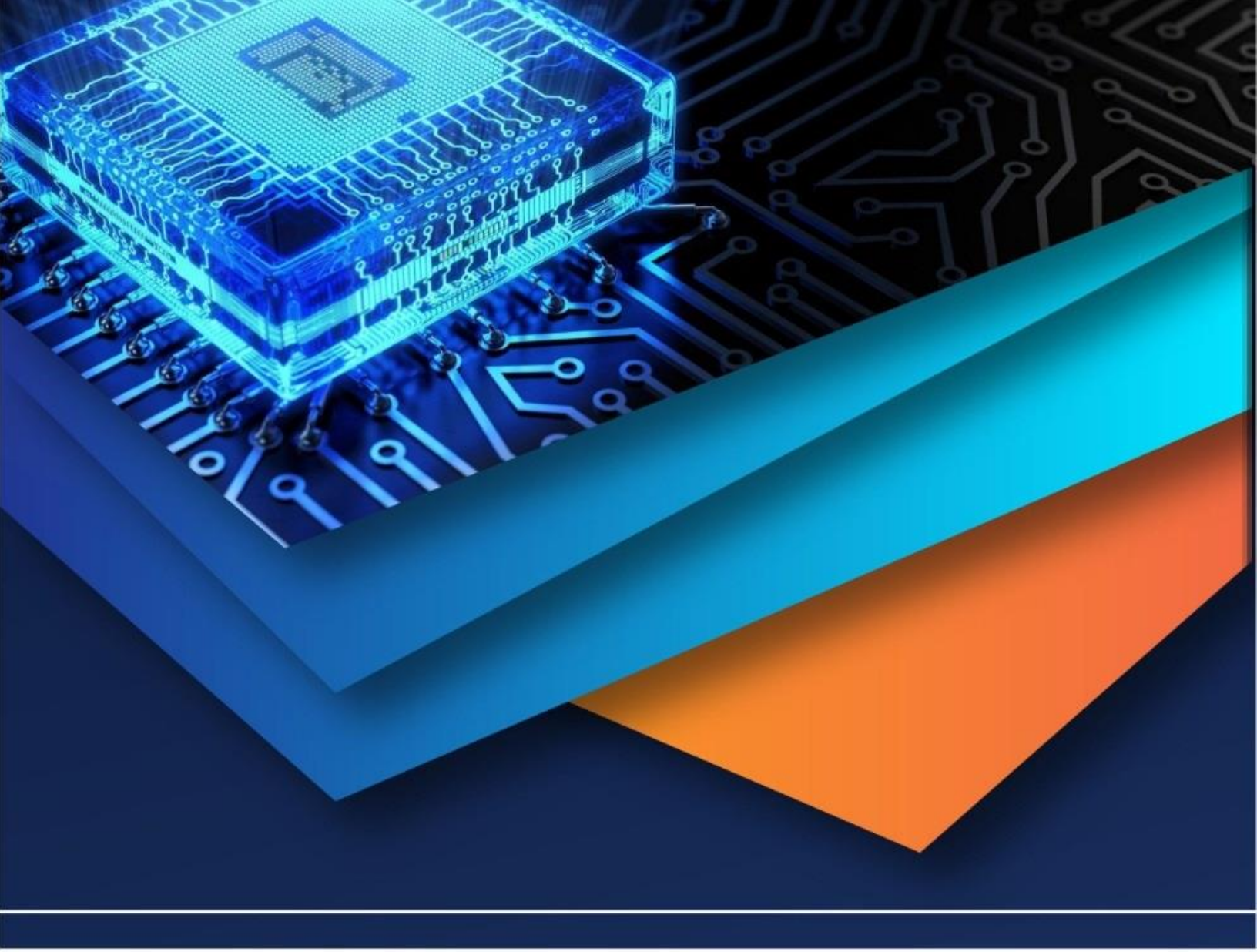

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