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Real time Multi-Vendor Homemade Food Service using Android Application

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Abstract: An online food menu is set up by the proposed food ordering system and as per their will customers can easily place the order. Also, customers can easily track the orders with the food menu. The management improve food delivery service and preserves customers database. To get the services efficiently the users of the system provides various facilities. Tiffin service as well as Mess facility is considered by our system for the customers.
Keywords: Multiple Vendors, delicacy, dynamically, limelight, interface, quarantined

I. INTRODUCTION

Food Industry has always been a profitable industry not only for manufacturers, suppliers, but also for the users, distributors. The online food delivery system is the need of hour because of the recent changes in the industry and the increasing use of the internet. Bachelors also keep travelling for job purpose and are in search of healthy homemade food which will be feasible to them. Students also tend to leave their home town for higher education, who are also looking for mess and tiffin service that will be near to them. "Multi-Vendor Homemade Food Service" will provide platform for such vendors to post regarding their delicacies. Separate accounts will be maintained for each user for more secured ordering by providing an ID and a password. Students, bachelors, quarantined people can log into this application to know about homemade food service available near their residence. As multiple vendors will be registering on this application the variety of tastes and food will provide more option to customers. Also, vendors to the new customers will be suggested based on the user ratings through the proposed system. Monthly and weekly orders will be analysed and will be sent to respective vendor. Customer, if required, can also place order for entire week or month. This will resolve his problem of placing order each and every day. Vendors are also able to post today's special and can also edit the earlier posted delicacy. Based on the facility provided as per vendor (takeaway / dine in / door step delivery) tiffin will be served.

II. PROBLEM DEFINITION AND OBJECTIVES

Online food service is a growing industry in today's era. The current system working for this like zomato, swiggy have some drawbacks which will be overcome by our proposed system. Current systems do not provide any facilities for homemade food services like mess and tiffin service. Proposed System will act as platform for such vendors and customers. Also the system will maintain analysis using customers review and ratings and the vendor can see their sale and plan accordingly. Our proposed system will lead to find good and healthy food for customers and also will provide vendor the limelight they need.

1) Multiple vendors can use the application to post their food service.
2) Customers will be able to see homemade food service available in their vicinity first, followed by rest.
3) Customer can also select monthly or weekly service as per preference.
4) Vendor's sales will be shown in pictorial form for better understanding.
5) Vendors will be receiving feedbacks from customers. Feedback can be in form of ratings or reviews.
6) Vendors are also able to upload pictures of their dish.
7) Filtering will be provided based on distance, reviews and one's requirement.

III. LITERATURE SURVEY

A. The currently working systems for food services like Zomato, Swiggy have some disadvantages which will be overcome by our proposed system. These above services do not provide any options for monthly Mess service or Tiffin service.
B. In this pandemic many people who were home quarantined needed tiffin service. Such people were forced to contact their friends or relatives for finding tiffin service which is little difficult. This will be solved by our system, customers can find nearby tiffin service by just looking in our android application.

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C. Many bachelors travel to new places for their jobs or education purpose, so one of the important things they need is a good mess. Normally they personally visit and try different mess to find which is good and suitable as per their budget and timing, but with help of our system they do not have to go through so much trouble, they can decide based on reviews all these things in the system which will save their time.

IV. PROPOSED SYSTEM

To overcome the restrictions of above system, based on Internet of Things an Online Food Ordering System is proposed. The use of mobile technology has revolutionized as the Android devices have gained popularity in the automation of routine task in wireless environment.

For mobile devices such as smart-phones and tablets android is a Linux built operating system. As a general Objective of the study to develop a reliable, convenient and accurate Food Ordering System is considered. As an objective, a system that will surely satisfy the customer service will be considered.

To design a system that can accommodate huge amount of orders at a time and automatically compute the bill is one of the key objectives.

One of the important objective is to evaluate its performance and acceptability in terms of security, user-friendliness, accuracy and reliability. One of key objective is to improve the communication between the client and customers.

V. PROJECT SCOPE

A. Small household mess and tiffin services need limelight, so such vendors can log in to the proposed system.
B. Students and Bachelors who are in need of homemade food can use our application.
C. Physically challenged people can also use our application
D. People who are suffering from illness can get fresh and healthy food using our application.

VI. REQUIREMENTS DEFINITIONS

Analyses based on similar application and determine the necessary features in the application, as well as do the details about the features that will be created with function of each feature. Features that are needed in application for customer are as follows:

1) *New Order:* New Order is the main feature of the customer side application that will be used to make orders. An order can be made in two separate ways, the one is by is using My Favourites feature to make an order by choosing one of the top three favourite restaurant and the other one is by using Make a new order feature to make an order by choosing restaurant and menus provided easily.
2) *Order History:* Customer's order history is shown by this feature namely order history.
3) *Restaurant Profile:* Restaurant's profile is shown by this feature. Through this feature customer can make call to the restaurant directly.
4) *Order Status:* This feature is used to show that order status that includes "order received" means that restaurant has received the order, "order confirmed" means that restaurant has confirmed the order, "cooking" means restaurant is preparing the order, "delivering order" means that delivery of the order is done. While the status is on "delivering order" the customer can also show the delivery map.
5) *Profile Setting:* To show and to change customer profile this feature is used that comprise of name, address, email, and phone number. Features required in website for admin are:
6) *Resto:* Restaurant list is shown by this feature. Admin can modify restaurant data and insert new restaurant including transformation from restaurant active or inactive status through this feature.
7) *Order:* Order list which has been done by each restaurant is shown by this feature.
8) *Menu:* Menu list of each restaurant is shown by this feature. Through this feature admin can also alter each menu.
9) *Courier:* Courier list of each restaurant is shown by this feature. Through this feature admin can also amend each courier data.
10) *Customer:* Customer list in this application is shown by this feature. Through this feature admin can also modify customer profile.

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VII. USE CASE DIAGRAM



Fig 1 Design for user application.

VIII. RESULTS

The result of our system application includes an Android. Once a customer places an order for a restaurant / mess, he/she will get the order Id on the screen dynamically. 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. Once the order is delivered to the customer, a feedback mail is send to the customer regarding his experience with the entire application. The feedback mail consists of the star rating as well as comments of the customer. The customer can track his order through the Tracking Interface provided in the GUI of the application. The restaurant / mess owner as well as customer can track the order in our system application.

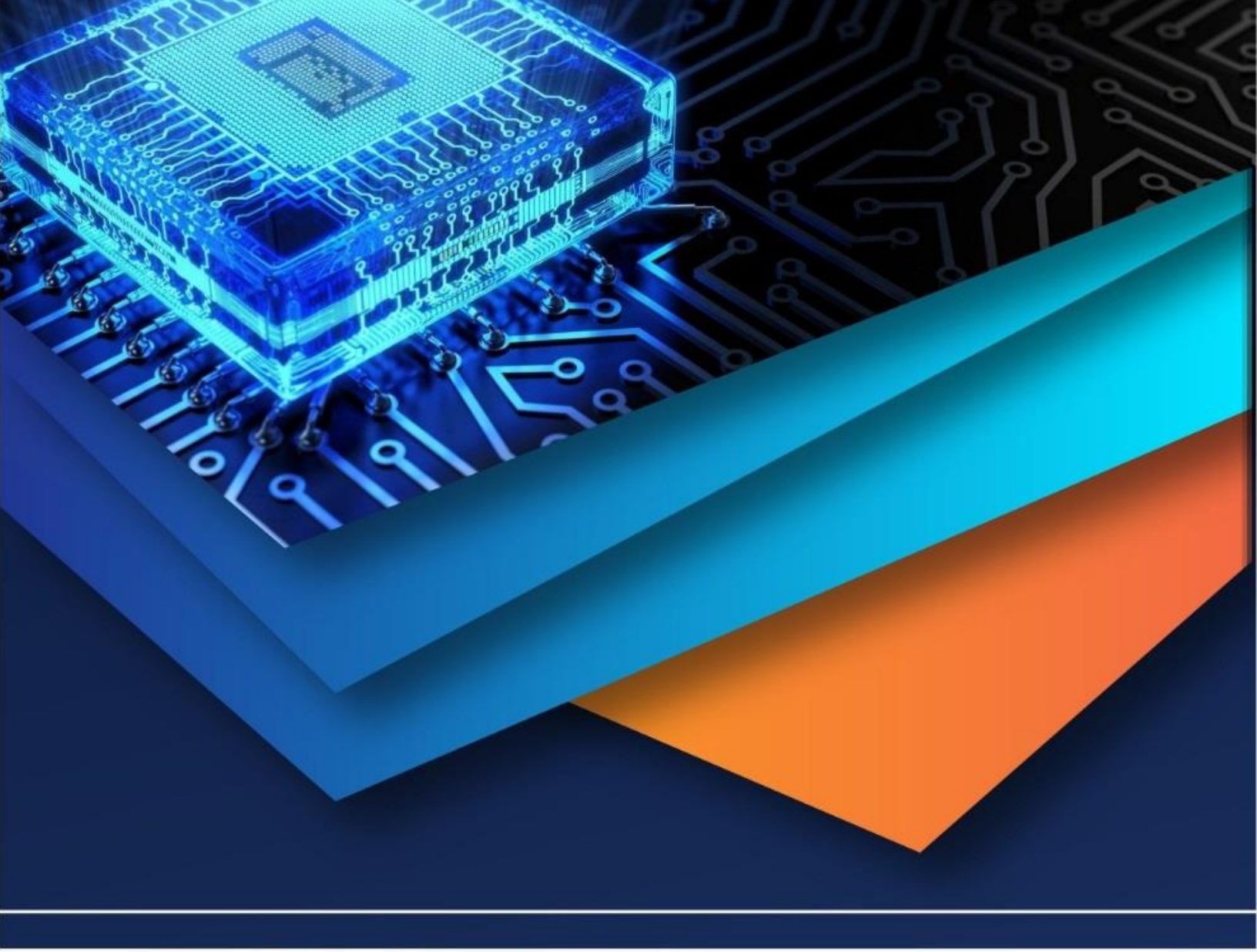
IX. CONCLUSION

The application is based on user's requirement and is user centred. All issues related to all user which are included in this system are developed by this system. If people know how to operate android smart phone wide variety of people can use the application. This system will solve the various issues related to Mess/Tiffin service. To help and solve important problems of people implementation of Online Food Ordering system is done. It can be concluded that, based on the application: Orders are made easily by this system; Information needed in making order to customer is provided by the system. Receiving orders and modifying its data is possible through the application and it also helps admin in controlling all the Food system.

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