Tiffin Management System

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Abstract- *In this hustle and bustle of life, people tend to compromise majorly on the kind, quality and amount of food they eat, which in turn causes a number of health issues like obesity, diabetes, hypertension, cancer, etc. Most of the time, people away from home tend to skip meals or eat any kind of fat loaded junk food that they can find easily around them. This is what made Tiffin service providers realize that there is a growing need for Tiffin services. But the delivery of these tifiins is very static(i.e. it delivers the food only at your house). But our project enables the user to select his/her current location ,which is not available in the currnet system i.e the user can change the destination according to where he/she is. Our application also enables the user to track down the tiffin which a person orders. And also payment methods such as COD , wallet will be made available. Hence, making the system adaptable to the user. Here , architecture and modules for "TIFFIN SERVICES APPLICATION AND LIVE TRACKING" have been proposed. The user needs to give location permission to the application and must have cellular data switched on. In this application the current location of the user will be detected and accordingly nearby franchises will be displayed. This is done by using google API's. Day driven menu will be displayed then, user will be directed to the cart followed by payment page. Various API's are used such as Google places , Location Manager, Place finder. For ETA Google distance matrix API is used. This application is not just for ordering home made tiffins but also it integrates other food orderin apps such as Zomato etc.*

I. INTRODUCTION

Online food ordering is a process of ordering food from a local restaurant or food cooperative through a web page or app. Much like ordering consumer goods online, many of these allow customers to keep accounts with them in order to make frequent ordering convenient. A customer will search for a favorite restaurant, usually filtered via type of cuisine and choose from available items, and choose delivery or pick-up. Payment can be amongst others either by wallet or cash, with the restaurant returning a percentage to the online food company. But the current aspect which the customers are concerned about is time . This application will enable the customers to actively track the tiffin. This application is mainly for ordering home made food from the available franchises

To make home made tiffin easily available to users and tracking the vendor for delivery. Useful for college students, hostel residents and employees. As the application will provide a platform for ordering a home-made meal on the go. The users of the application won't have to worry about the quality of the food, as the food would be as good and hygienic one would expect from his/her home. Also the meal would be easily available at the hands of the application user. The estimated time of arrival is determined and hence user can get to know the exact location of the tiffin box.

II. LITERATURE REVIEW

There are many system developed on restaurant management so to take an idea about all process we reviewed various papers on restaurant management, various algorithms and various android application which are in market.

2.1 Zigbee based smart ordering system: In this they are designed a system based on a part of restaurant management that is to manage order of customer using Zigbee wireless technology which will give advantage of mobility and ease of access. The system uses a small keypad to place orders and the order made by inserting the code on the keypad menu. This code comes along with the menu. The signal will be delivered to the order by the Zigbee technology, and it will automatically be displayed on the screen in the kitchen [1].

2.2 Real-Time Fully Automated Restaurant Management And Communication System RESTO: This paper includes automation of restaurant management for or daring food, feedback, generating report etc. [2].

2.3 e-Restaurant: It is also automated one based on making restaurant online [12]. In addition to this for finding nearest mess we gain information about various algorithms. i) Finding Nearest Facility Location with Open Box Query using Geo-hashing and Map Reduce [8]. ii) Geometric Hashing: An Overview [9]. Also we survey to the different mess in different area of cities to get actual requirements and to know their problems. iii) While surveying we observe that there are various kinds of problems faced by mess providers in terms of wastage, feedback, customers, and many more.

2.4 FoodPanda: The concept is after giving input as area it will display all restaurants in within that area. But after reading some review we observe that there is one sided communication that is user interaction is not there, poor contact between Foodpanda and restaurant, customer cant cancel order given, waiting time is long, sometimes menu items not available, no remove button, no instant response, have to login again and Again, and many more.

2.5 Urbanspoon: It is also for restaurant service. It also has some issues related to service provided

2.6 Eplcurious: It is basically for recipes which are served to customers. All information which are related to recipes like ingredient, how to cook in step by step process is given.

2.7 Veg Out: It is especially for vegetarian food. It displays food in alphabetical order.

2.8 FoodSpotting: It is related to recipes mainly. But review says that there is poor image quality, no push notification, cannot edit post already made, cannot resize image.

2.9 Local Eats: It has list of local restaurants. It uses GPS receiver for location. It also includes alphabetical search. By this survey we decided to club this all functionality into one system with additional facilities and rather than developing system for restaurants and hotel we are developing system for mess service provider with bidirectional communication between service consumer and service provider. Proposed system overcomes all disadvantage of above. Proposed system will includes features like one time login, finding nearest service, menu planner, push notification, uploading facility, instant response facility, message facility, canceling Feature. It also have employee module which includes login, communication between owner and employee, food related information and many more. Searching can be done in different manner like distance wise, cost wise, type wise (veg or non-veg), rating wise so that the user will comfortable to use application with their requirement.

III. PROPOSED SYSTEM

It is a 2-way communication application where user's current location will be detected first. And according to his location nearby franchises will be displayed. For this he must give location permission to the application. By clicking the next button a day wise menu will be shown. And if the user wishes to see other day menu a separate buuton will be kept. User will be directed to the cart then, where one has to select no. of particulars which he want to order. E-wallet and COD

will the payment options given to the user. The vendor has to first register to the application where he can enter his own menu and the cost of the dish. As soon as the customer places an order the vendor's application receives a notification that order has been placed. The user's database , vendor's database is being saved in SQlite Database. After placing the order the User can actively track the tiffin. N-tier architecture is also called multi-tier architecture because the software is engineered to have the processing, data management, and presentation functions physically and logically separated. That means that these different functions are hosted on several machines or clusters, ensuring that services are provided without resources being shared and, as such, these services are delivered at top capacity. The "N" in the name n-tier architecture refers to any number from

1. Not only does your software gain from being able to get services at the best possible rate, but it's also easier to manage. This is because when you work on one section, the changes you make will not affect the other functions. And if there is a problem, you can easily pinpoint where it originates. N-tier architecture would involve dividing an application into three different tiers. These would be the 1. logic tier This layer coordinates the application, process commands, makes logical decisions and evaluations, and performs calculations . It also moves and processes data between the two surrounding layers.

2. The presentation tier The topmost level of application is the user interface. The main function of the interface is to translate tasks and results to something the user can understand.

3. The data tier Here the information is stored and retrieved from the database or file system. The information is the passed back to the logic tier for processing, and then eventually back to the user.

IV. CONCLUSION

The two way home made tiffin services application is useful for both the customer and the vendor. Since, user can order his homemade tiffin at his doorstep or where ever he is. And the vendor will attract lots of customers which results in their profit. Proposed system is based on user need and user centered. The system will 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 will be solved by providing them a full-fledged system.

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