

# “Hungry India”- Food and Chef Ordering System at Your Door-Step using Android based Application

Pranav Malve<sup>1</sup> Pranav Shivale<sup>2</sup> Pushpam Patil<sup>3</sup> Sanket Jagtap<sup>4</sup> P. T. Suradkar<sup>5</sup>

<sup>1,2,3,4,5</sup>Department of Computer Science Engineering

<sup>1,2,3,4,5</sup>NBN School of Engineering, Savitribai Phule, Pune University, Pune, India

**Abstract**— Increased demands of restaurants, customer needs more attention for food delivery providing much options with ease of ordering and delivery in need of hours. Technology interface has become mandatory to improve the quality of service and business in this industry. As Sweegy, Zomato, Foodpanda are limited with only restaurants and cafe where we can place orders. All the time it is not affordable for people to order the food from the restaurants, so there is need of an application which will provide the facility of home – made food and mess too. So from this application, we are filling the gap of availability of mess and chef which is not in other food delivery apps. Highlighting feature of our application is chef-at-home and other feature is searching using GPS technology. This app will deal with the real time data as data of food posted on each day will be invalid after one day. Various messes can register through this app and can start their own business. The App will also provide the facility of booking the caterers for various events.

**Keywords:** Personal Digital Assistance (PDA), Global Positioning System (GPS), Android, SQLite database, GPS Server

## I. INTRODUCTION

The online food ordering system sets up food menu online and customers can easily place the order from restaurants and cafes as per they like but every customer may not be each time afford it. Customer like students or unemployed people can't afford all the time and they may need a homemade food. Moreover the food which is available from restaurants there is no availability of home cooked food. Since there is constant migration of people in various states, restaurant food is not assumed to be healthy for regular consumption. The main motivation for it is increasing use of food delivery system on single click.[1]

The convergence of wireless and mobile technologies can facilitate ubiquitous platform for implementing business applications such as food ordering system through mess. Without any information and communication technology facilities, food ordering procedures at mess is currently not exist and users of mess need to visit an each and every mess near him and compare the menu and rate then decide, so it will save the time and efforts of user and recommend the messes according to rating provided by visited users review.[1]

The conventional food ordering system may not affordable all the days even prone to human errors in note making when the number of customers increases during peak hours. Some preliminary efforts have been made to integrate mobile technology in automating the tasks of conventional food ordering system, such as in [2-4]. Thus the system efficiently manages the home cooked food in various strata of society. There can be a provision of membership for regular customer. System provides the recommendation related with

menu. It will also encourage business from home. With this system customer can view the latest meal menu and send order using their smart phone or tablet. The tablet will interact with server in the application through wireless connection. This system will deal with the real time databases so each day menu will get change and new data will get uploaded from sellers. Some users may need a chef on monthly basis for making food at their place or for some reception ceremony there may be need of caterers which is also provided through this system the benefits of our system in offers card and super cash all the time.

Some highlighted features our application achieves are as follows:

- Allows users to create a profile and display their “Menu-for-today” service.
- Users are both clients and service providers.
- The key feature is chef-at-home and caterers for the events.
- Helps in providing recognition for small business from home.
- Easy to search nearby messes and chefs to user's location by using geo-fencing.
- Mini wallet is provided to new users which consists of some coins. They can be used for any of first five orders.
- Rating is provided which helps the buyer to decide the best.

## II. EXISTING METHODOLOGIES

Some early efforts have been made to automate conventional food ordering processes using wireless technology, multiple food hawkers under one management. These wireless food ordering systems enable customers or waiters to key in order using mobile devices, namely, personal digital assistants (PDAs). When a customer or waiter completes the ordering process, the order details will be sent to the server from the PDA.[1]

The mobile devices have been widely used to provide easily access to the web content. We presented a wireless food ordering system based on web services over a wired/wireless integrated local area network, which implements wired and wireless data access to the servers and food ordering functions through both desktop PCs and mobile devices such as PDAs.[2]

In [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. We have presented a customizable wireless food ordering system with real-time

feedback to customers. Instead of using PDAs to interface with customers, we leverage smart phones 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.

### III. BASIC FLOW

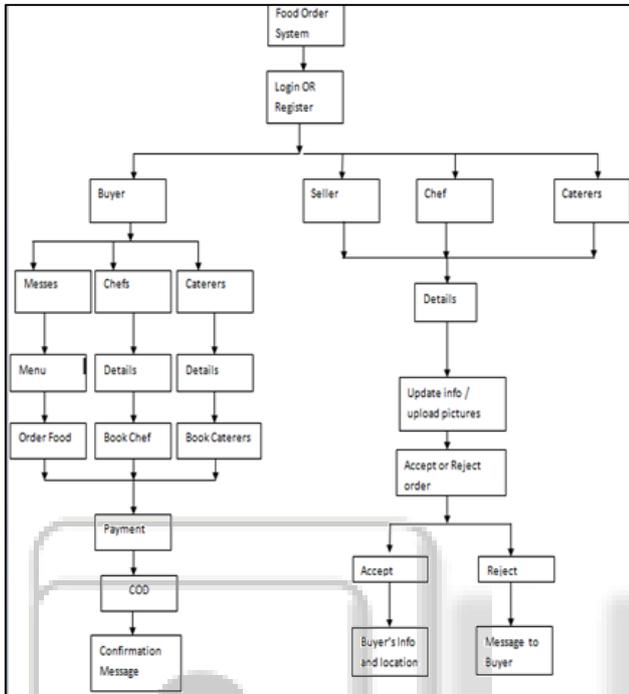


Fig. 3.1: Basic Flow

### IV. WORKING OF SYSTEM

As we can see buyer, seller, chef and caterers all are the users of the application. Buyer can order the food as well as can book chef or caterers. Buyer can easily see the nearby messes or chefs or caterers to his location by using geo-fencing. If interested, buyer also can sell the food. Main advantage of our system is that anyone can prepare food and sell through our application. Chef can start earning by taking orders from buyers and by giving those best of quality and quantity as well. Second main feature of our system is that Chef will be able to go to buyers house and will cook the food there only. Caterers need to publish themselves so as to reach to maximum buyers. Buyer can book the caterers for various events. Publicity of Mess, Chef and Caterers is depend on feedback from buyers. Another new feature of our application is Geo-fencing. Geo-fencing is feature in s/w program that uses global positioning system to define geographical boundaries. Buyer can easily set the boundaries depending upon his location in meters. He can easily reach to the nearby messes or chefs or caterers using geo-fencing.

### V. RESULTS

Some of the demo screenshots of our application are provided below:

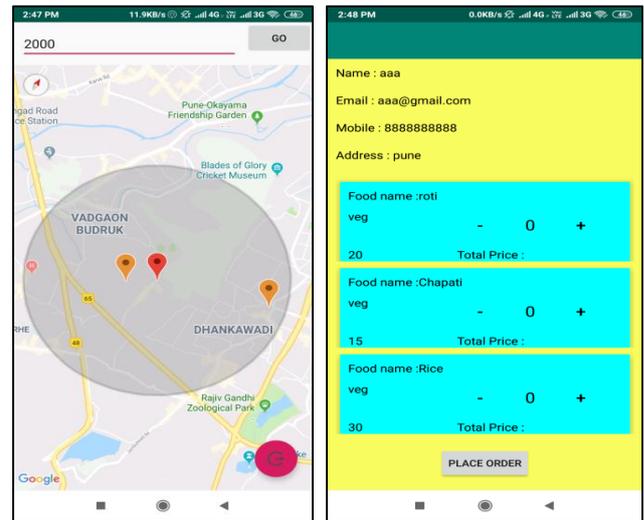


Fig. 5.1: Buyer's View

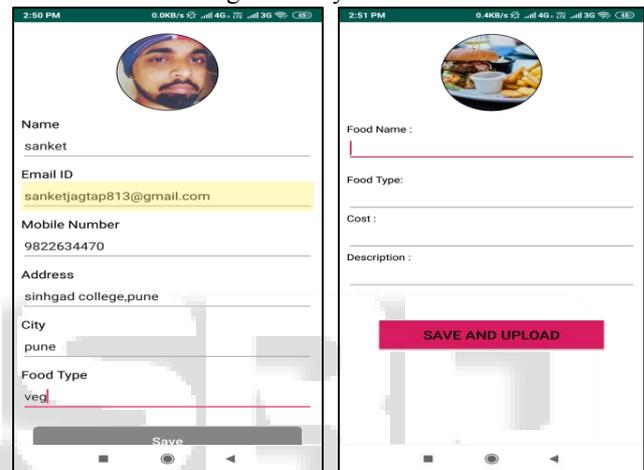


Fig. 5.2: Seller's View

### VI. CONCLUSION

The application is developed in order to solve all of the issues. Now a days, almost everyone can frequently operate smart phones, so by building such a fully-fledged application many people will get the benefit.

Based on result of this research, it can be concluded: It facilitates users to order food easily. It also gives option to pay. Having all the options on internet like menu, customers can easily access it. By providing homemade food, it will be convenient for those who have migrated to other cities. Eating fast food daily is not good for health as well and mostly hostelite's loves to eat homemade food rather than restaurant food, So its best to give them such an amazing option to enjoy homemade food. Our Chef-at-home feature will give customers guaranty of fresh food. Large number of people can make a use of proposed system because now a days, people are migrating to other cities in search of jobs.

### VII. FUTURE SCOPE

Following section describes the work that will be implemented with future releases of the software:

- Customize orders: Allow customers to customize food orders

- Enhance User Interface by adding more user interactive features. Provide Deals and promotional Offer details to home page. Provide Recipes of the Week/Day to Home Page
- Payment Options: Add different payment options such as PayPal, Cash,
- Gift Cards etc. Allow to save payment details for future use.
- Order Process Estimate: Provide customer a visual graphical order status bar
- Food making videos can be posted on App.

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