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Food Ordering Android Application

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Abstract - *The purpose of online food and Tiffin ordering applications is to automate the existing physical structure by the help of automated apparatus and full-fledged computer software, satisfying their requirements, so that their appreciated data/information can be deposited for a longer stage with easy retrieving and guidance of the identical. The rampant evolution of wireless knowledge and mobile devices in this era is producing a great impression on our lives. This investigation work goals to automate the food ordering process in near neighborhood and also improve the dining understanding of customers. In this report we deliberate about the design and execution of automated food ordering system with real time customer feedback for vendors. This system, implements wireless data entrance to server. The android application on user's mobile will have all the menu specifics. The order details from customer's mobile are wirelessly rationalized in central database and consequently send to kitchen and cashier correspondingly.*

Key Words: Automate, Apparatus, Full-fledged, Cashier.

1. INTRODUCTION

The "Food Ordering Android Application" has been residential to countermand the problems customary in the practicing handbook system. A location-based service (LBS) is a mobile application that is dependent on the location of a mobile device, like mobile phone[1]. This software is supported to eradicate and in some cases diminish the adversity faced by this breathing system. Moreover this system is designed for exacting need of the company to carry out operations in a smooth and effective manner. The Food Ordering Android Application is the Android Application for customized Tiffin and food ordering. User will be capable to get delivery on his present location by GPS description. Delivery tracking, food production process suggestion, share enduring food, plunder and many more description are there in Food Ordering Android Application. The application is condensed as much as potential to avoid errors while incoming the data. It also provides error message while incoming unsound data. No formal facts is needed for the user to use this system. Thus by this all it provides it is intelligible. Food Ordering Android Application, as described above, can lead to mistake free, protected, reliable and fast administration system. It can help the user to deliberate on their other performance rather to deliberate on the record maintenance.

2. LITERATURE SURVEY

There are currently 4 applications are in trend which are Food panda, Zomato, Swiggy, Faasos. By anaylzing the survey we come to decision that Swiggy and Faasos requires 30% of follow up regarding that order is placed or not? And order is dispatched or not? And in case of Foodpanda and Zomato requires less follow up. At present there are four types of system are available in which manual food ordering system and waiter paging system are outdated whereas touch screen and touch pad projection ordering app. By observing chart we come to know that Food panda and Faasos are providing many features such as reward points, ewallet, discounts, coupons, easy return policy, quality food. Whereas Zomato and Swiggy provides less features.

Different types of system:

1. Manual food ordering system: Manual Food Ordering System uses waiter to take orders from customers.

2. Waiter paging system: The Waiter Paging System allows customers to call for a waiter. The pager unit notifies the waiter via a vibrator or buzzer that a request has been received and displays the request.

3. Touch-Pad Projection System: The Touch Pad-Projection System also allows customers to send food orders directly to the kitchen. Each table has its own image projector, projecting the menu on the table allowing customers to make an order by touching the table surface instead of a monitor screen [3].

Sr. No.	Applications \ Features	Popularity	No. of Follow Up	System Types	Draw back
1.	FoodPanda	25%	25%	Manual	25%
2.	Zomato	25%	15%	Waiter Paging	15%
3.	Swiggy	20%	30%	Touch Screen	30%
4.	Faasos	25%	30%	Touch Pad Projection	30%

Table -1: literature survey

3. EXISTING AND PROPOSED SYSTEM

3.1 Existing System

In an existing system for giving any orders, a user should visit Hotels or Restaurants to know about food items and then give orders and pay in advance or you need to select menu and place an order on call. In this method time and manual work is required. Maintaining critical information in the files and manuals is full of risk and tedious process.

Tracking of Delivery is not available in previous applications and Booking of a particular table in advance is also not available. Customization of Order, Current status of the order is not available. Some systems contain an outdated database that is Restaurant is closed, yet it shows on the application.

3.1.1 Drawbacks of Existing System

1) Do not take mass order.
2) Does not indicate the famous dishes of a particular restaurant.
3) Nobody shows the current status of delivery.
4) Mismatch in delivery expected time.
5) Location facility available in Swiggy only.
6) Outdated data.

3.2 Proposed system

The application is an online food ordering system which consists of GPS option where the application user can select the option to see the restaurants nearby his vicinity. It is mainly implemented using Global Positioning System (GPS).Users with location-aware wireless devices can query about their surroundings at any place, anytime[2]. This android application enables the end users to register on the application, select the food from menu card and order food by an android app. The User will receive a confirmation call, by selecting and ordering the food they want to have. The results after selecting food from menu card will directly appear in web application part on the system of a manager. By using this application the work of waiter is reduced or we can say that work is nullified. The benefit is that if there is a rush in a restaurant then there will be chances that the waiters will be unavailable and then the users can directly order the food by using android application. The user is given Username and Password to Login.

The User can see the list of Restaurants on the basis of the User Ratings given. The user can see the different cuisines offered at the restaurants and the related food menus along with their prices. The User can place the order accordingly and after the order is placed a confirmation mail is sent to the user. Then the bill is generated which has the order price and according to the user location, the delivery charges are calculated. Another module will be consisting of a Manager application where the hotel staff can log in and can update/change the menu and prices accordingly. For every order placed through the application, we have assumed that our portal gets a 20% of royalty.

3.2.1 Advantages of proposed system

1. Tracking of orders.
2. One step registration with android application.
3. Instant notification of the order, when the order is confirmed, dispatched and delivered.
4. Advance ordering.
5. Customize food ordering.
6. Various secured payment methods.
7. Subscription-based registration of hotels, restaurant, and vendors.
8. Ability to order food from nearby restaurants and hotels.
9. Provision of restaurant owners to register themselves with their menus.
10. With the GPS, easy searching of nearby restaurants and hotels.
11. Tiffin services.
12. Table booking.
13. Leftover food is given to NGO.

3.2.2 Disadvantages of proposed system

1. Once an order has been dispatched, it cannot be cancelled.
2. Availability of internet to use application.

4. SYSTEM DESCRIPTION

The system consists of four modules namely Customer module, Server Module, Kitchen Module and Home Delivery Module. The Customer, Server and Kitchen module work in the restaurant environment within a home network with the help of wireless fidelity whereas the Home Delivery and Reservation module works anywhere with proper Internet connectivity.

4.1 Customer Module

The customer module is an android based application that provides a user friendly graphical user interface. With the help of this module the customer can order the meal. This module contains the details of the food to be ordered which includes price of the menu, ingredients and a visual display of the food items Special dishes(e.g. the Chef's Choice)if any could be changed and modified easily at any time by the admin/manager and displayed. Any personalization required by the customer in the food item can easily be implemented under this module. The customer module is run on a tablet and the application to be run on it is made in Eclipse and Android Studio using Java programming. The customer module is connected to the server module through wireless fidelity network.

4.2 Server Module

Server module is a web based module which is handled by the admin (restaurant manager) for managing the database and controlling the entire system. Here the entire details of the item ordered by the customer, time of ordering, bill amount, and bill status etc.is maintained. Also the admin can anytime add and modify menus(e.g. Today's Special), their prices and advertise specific food item including special discount and combo offer server Module is being implemented in XAMPP server where database management is done in MySQL and programming is done using java server pages.

4.3 Home Delivery and Reservation Module

Home delivery and reservation module is also an android based application through which the customer can order the food from anywhere.

Through internet connectivity. The customers can also book table in advance before coming for dinner or lunch and can know whether a table is available or not this module will communicate with server module and the database will be accordingly updated. This will be an android application which will be available on google play store for free.

5. CONCLUSIONS

In this, we planned the automated food ordering system for the restaurant. The system is compared to earlier food ordering traditional methods such as traditional pen and paper methods etc. We have deliberated advantages of the proposed system over those earlier methods. The segregating factor for the proposed methodology is its adjustable efficiency which comes from the technology it uses.

1. It allow users to browse through different product categories.
2. This is accomplished through an easy to use graphical interface menu options.
3. It allow users to save items to the ordered list and view detailed information about the order.
4. The users can add any number of items to the ordered list from any of the available food categories by simply clicking the Add to Order button for each item. Once an item is added to the ordered list, the user is presented with detailed order to review or continue.
5. It allow the user to Proceed-To-Checkout.
6. It allow the user to track the delivery.
7. This is achieved when a user selects "Proceed to Checkout" button and fill up the Payment material details.
8. It allow the user to see notification message after placing an order.
9. This is reached when a user successfully places an order. The user is given the order confirmation number laterally with success message.

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