**PERSONALISED FOOD DELIVERY APPLICATION**

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**Abstract –**

**Corporate people are getting busier through time and this has led to the increase in the demand for ordering and delivery of home cooked food at their doorstep. Also the increase in demand and competition amongst restaurants to achieve full customer satisfaction has created a craze among the customers for trying out new food and offers. Therefore, people use various applications for ordering food. People who cannot cook mostly eat at a mess or order food some hotel. But eating hotel/restaurant food every day is neither pocket friendly nor is it healthy. Therefore, our aim is to create a platform where people can order hygienic home cooked food. This food is made by trained people. In this application our aim is to create a platform which provides the facility to order food from various sources and it also provides an efficient routing algorithm for delivery of these food items. This will be a subscription based food ordering service which offers the option of choosing personalized packages. Since the application is on the user’s smartphone, it provides a means of convenience, improves the efficiency of the system and its accuracy by reducing the errors caused by humans, saving the time and it also provides real time feedback from the customers.**

**Keywords –**

*Personal Digital Assistant (PDA), Global Positioning System (GPS), SQL Database.*

**I. Introduction**

Nowadays, most people order food on line as it saves a lot of time and it is very convenient Ordering food on line has become a norm nowadays. But lately, people have become more health conscious and long for home cooked food. People, especially corporate employees, do not have the time to cook food themselves. Consuming outside food on a daily basis is not considered to be healthy or hygienic. This system efficiently manages the delivery of home cooked food to our customers and provides an efficient routing algorithm for the delivery of the food. This food is made by trained people. This application is a platform which provides the facility to order food from various sources and it also provides an efficient routing algorithm for delivery of these food items. This will be a subscription based food ordering service which offers the option of choosing personalized packages. The system will recommend packages based on the users’ information such as body weight, BMI, diabetes, blood pressure, etc. With this system, the customer can view the latest meal menu also. The system will interact with the server in the application through wireless connection.

Some of the features achieved by our application are highlighted below:

* Generates optimized delivery address routing incorporating pickup points for logistics.
* Provides personalized packages according to user’s details such as age, blood pressure, diabetes, weight, BMI, etc.
* Main motive is to provide hygienic home cooked food to the people.

**II. Existing Methodologies**

**III. Working**

Advantages:

1. Since we are using technologies like OSRM and GPS, the project development cost is economically viable as these technologies are open source.
2. The system will make quality hygienic food available to the customer at a comparatively low price.
3. The system provides a personalized package based on customer’s details such as weight, BMI, blood pressure, sugar level, age, etc.

Disadvantages:

1. An internet connection is always needed to run/access the application.
2. Since this is a subscription based food ordering method, user will not be able to change the subscription in between the subscription period.

**IV. Results**

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

**V. Conclusion**

The processing capability of an Android/IOS system is more than QORDER and PDA based systems. The Graphical User Interface of an Android/IOS system is much more attractive and informative than the PDA and QORDER systems. Thus, Android/IOS based systems are the most economically viable and efficient automation solution for food delivery systems. Also, people who order food on-line on a daily basis are fed up of eating hotel food. Thus, we present a food ordering system that will provide a platform for people to order hygienic home cooked food on-line, as there are very less sources of getting home cooked food on-line. Therefore, this system would prove to be a promising one. This system also ensures good quality of service and customer satisfaction. Therefore, the proposed food ordering system has the potential to attract customers and also adds to the efficiency of maintaining customers ordering and billing sections.

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