

Mess Food Delivery System

Mhetre Sayali Shahaji*, Nale Urmila Narayan**, Pise Surekha Ramdas***, Shaikh Nikatparvin Nyamtulla****

*(Department of Computer Engineering, SPPU/SVPM' College of Engineering, Malegaon(bk)
Email: sayalimhetre321@gmail.com)

** (Department of Computer Engineering, SPPU/SVPM' College of Engineering, Malegaon(bk)
Email: urmilanale1999@gmail.com)

*** (Department of Computer Engineering, SPPU/SVPM' College of Engineering, Malegaon(bk)
Email: surekhapise98610@gmail.com)

**** (Department of Computer Engineering, SPPU/SVPM' College of Engineering, Malegaon(bk)
Email: nikatparvin@gmail.com)

Abstract:

The online food delivery system is one of the fastest-growing marketing strategies for food and hotel industries to gain more profits. Food is a basic need for every human, major business, and industry. It is difficult for business professionals, students to get fresh food available on daily basis due to the workplace busy schedule. So to make good food available at one's doorstep we started an online food delivery service through a very reliable and secured android mess food delivery system application. The Mess food delivery system has a multi-vendor system with a user-friendly dashboard. A user can order our favorite food following easy steps. We can choose the vendor of our choice and go through all the food items it provides. We then, can select the food items and place the order. Now we have to proceed to payment. People can enjoy their favorite food without ever leaving the sofa. Thus it is designed to save the time of waiting at the vendor location; the user can order the food in advance by our app. Average Indian spends around 25% of their income on food and beverages. But good food is not ubiquitous. So, to make good food available at one's doorstep we started an online food delivery service through a very reliable and secured application. A smart food delivery system is designed to save the time of waiting in the mess or front of the food truck. This is how it works: users can order the food in advance by our app. When the restaurants receive the order, they can start cooking before the busy box. The online food ordering system provides convenience for customers. This system increases the takeaway of foods than visitors. Therefore, this system enhances the speed and standardization of taking the order from the customer. It provides a better communication platform.

Keywords —Mess, Customers, Online ordering, Google map API, GPS, Smart Phone, Dynamic Database Management .

I. INTRODUCTION

Food is a basic need in every human life for which he or she is struggling. But even after their struggle people are not happy with their sustenance, then efforts behind it are useless. It

is difficult for business professionals, students to get fresh food available on daily basis due to the workplace busy schedule. The application mainly targets them with the use of this application people can select the food of their choice and they get the delivery at right time.

The food delivery system is designed to save the time of waiting in the mess. Users can order their food in advance. India has a rich tradition in the home-made food industry. But the change in work-life has welcomed the food online delivery app. The popularity of e-commerce technology, which involves the payment via wireless devices has also enhanced the purchase in the tension of people, as it involves less time and effort (Au Kauffman, 2008, Mall at 2007). The revenues from platform to consumer delivery amount to \$ 484m, nearly 7 percent of total revenue on the online food delivery segment. Here the focus is on the market segment, which provides customers the food from their partner restaurants and the delivery of food managed by themselves. The revenue is further expected to grow to 25.2% by 2023. The user penetration is nearly 2.1% and is expected to strike 4.8% by 2023 (The statistical Portal).

II. OBJECTIVES

Our main objective of the project is to deliver healthy and hygienic food to customers on time.

- To make the reliable delivery of food in minimum time.
- To minimize the distance between customer and vendor.
- We are working together to transform our food system by increasing the amount of good, local food served in our region's, schools, hospitals, colleges, and other institutions.
- To provide the different variety of homemade food to the customers at the neighbour places on time.
- Vendors give the more no. of customers through this system.

III. SCOPE OF THE PROJECT

- This document specifies the requirements for a mess paper menu and ordering replacement strategy to alleviate the problems associated with the current archaic method.

- To providing all customers a healthy daily routine food on time it helps in build nation. The system will maintain location-wise meal details of a particular organization.
- The system is going to maintain a calendar for the meal so that administrators can previously plan the menus for a particular time slot. According to that, they work on delivery.
- Flexibility and Timeliness.
- Customer Satisfaction.
Customers need not go outside and stand in queues in mess. They can order in advance and they get food which is of their choice by reducing travel expenses.
- Order Accuracy Improves :
Customers have their OTP with respective orders, So orders are correctly delivered to the right person.
- Reduce Cost.

IV. MOTIVATIONS

- The customer crowd is very large about 20 to 30 cr. It's difficult for business professionals, students to get fresh food available on daily basis due to the workplace busy schedule.
- The application mainly targets to them. With the use of this application, people can select the food of their choice. And they get their delivery at a right time.
- Among those, culture is one significant factor that shapes people's dietary patterns and preferences. This study is conducted as one part of a study project to understand the culture, dietary behaviors, and lifestyle of Indian people.

V. LITERATURE SURVEY

Many new players joining the segment with innovative business models such as delivering food for health-conscious people, home-cooked meals, etc. Food tech is the hot talk in the startuptown. Food tech is a vast market and food delivery startups are just a part of it. Various apps in the Indian market are:

- FoodPanda
- Zomato
- Swiggy
- Box8
- Fasoos
- Zomato
- Swiggy:-

Swiggy was launched in Bangalore in 2016.

- UberEats:-

It is an Indian restaurant aggregator and food delivery start. It founded in May 2017 in India.

VI. SYSTEM ARCHITECTURE

1. Food delivery is hot or not:

To customer whatever food is delivered, that must be fresh, hot. In case ordered food is cooled such as Ice-cream, Cake, etc. then the delivery boy must that food should be frozen. If well food is not delivering to the customer then we get a negative impression.

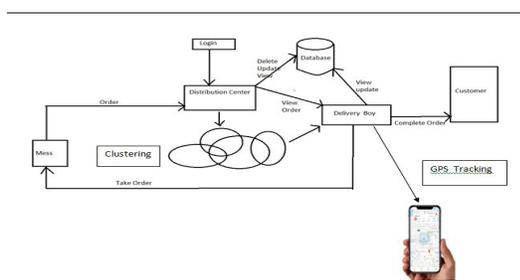


Fig. Proposed System

2. On Delivery time package food must be safely delivered:

Take care that the food does not spill and get mixed in the containers because a mixed up meal will eventually appear unappealing

and less appetizing to the customers. You can implement a different packaging technique and use spill-free containers to order meals to be delivered.

3. Real-time tracking:

The food ordering software is equipped with real-time GPS tracking systems, such that the customers can track the delivery boy bringing their food, along with helping the delivery boys to track down the exact address of the customers.

VII. ALGORITHM

Geofence is a location-based service in which an app or other software uses GPS, RFID, Wi-Fi, or cellular data to trigger a pre-programmed action when a mobile device or RFID tag enters or exits a virtual boundary set up around a geographical location.

How does geofence work?

To make use of geofencing, an administrator or developer must first establish a virtual boundary around a specified location in GPS- or RFID- enabled software. This can be as simple as a circle drawn 100 feet around a location on Google Maps, as specified using APIs when developing a mobile app. This virtual geofence will then trigger a response when an authorized device enters or exits that area, as specified by the administrator or developer.

A geofence can also be set up by end-users using geofencing capabilities in their mobile apps. These apps, such as iOS Reminders, allow you to choose an address or location where you want to trigger a specific alert or push notification. This is called an “if this, then that” command, where an app is programmed to trigger an action based on another action. For example, “If I’m five feet from my front door, turn on my lights.” Or you might ask a reminder app to send you an alert once you reach a specific location.

VIII. RISK ANALYSIS

ID	Risk Description	Probability	Impact		
			Schedule	Quality	Overall
1	Continuous Stream of required changes	Low	High	High	High
2	None of us know how to use technology	Low	Low	Low	Low
3	Real time performance	Low	Low	High	High
4	Incorrect Key Generation	Low	Low	Low	Low
5	Module integration	High	High	High	High
6	System failure like database connectivity	Low	Low	High	High

Table .Risk Analysis

IX. CONCLUSIONS

The proposed system gives chance to the customer to choose the food from the various mess of their city. We are going to design the location for delivery is based on the availability of Mess Vendors. Because the delivery boy is available in a particular area and he wants to go to another cluster it makes double distance for him, to avoid this problem we are going to make the delivery smooth and fast, looking for better service by using K-meansclustering and geofence algorithm. As well as the mess vendors' availability helps us to and out the exact location for the delivery boy, and it will be a great factor for both the system and delivery perspective also.

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