

FOOD ZONE

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Abstract—Food delivery applications like zomato, swiggy, foodpanada, ubereats & many more nowadays have become one of the most decisive for ordering all kinds of foods. Many methodology have been developed by studying customer's behaviour so as to attract more business development and participation of people. As there are many Food delivery Applications available it becomes difficult for users to choose the best deal for desired food amongst these Applications. Comparison of foods using web mining enables users to analyse prices and get desired food at a minimum price. Users can also select multiple foods that belong to the same category for comparing with multiple food Application with quality. To obtain best deals from food delivery Application Also we include tiffin module that gives you nearby mess food available and it delivers fast from nearby any food delivery boy from that current location.

This way, the paper helps to provide a solution for online customers to order foods at a good deal with discount and save their valuable time, effort and money.

Keywords—Web mining, Data mining, Food delivery application, Zomato, Swiggy, Foodpanada.

I. INTRODUCTION

In the current era of online business, Food delivery has become a huge market for people to order food online. The increasing use of smart devices and other mediums has paved the way for users to order food almost from anywhere. This has increased the same food prices on different Food delivery Applications. An online food menu is set up by the proposed food ordering system and as per their will customers can easily place the order. Also, customers can easily track orders with the food menu. The management improves food delivery service and preserves customer's database. Motivation to develop the system is from the Real-Time Food Ordering system. To get the services efficiently the users of the system provides various facilities. Restaurants, as well as Mess facility, is considered by our system for the customers. Mostly mess users are the person who are shifted to new cities and this can be considered as a motivation to our system.

Another motivation can be considered as the increasing use of smart phones. The system will be designed where users can

track their food items through GPS and where users can provide feedback and recommendations to Restaurants & Mess service providers. There's a need for the system due to lack of a full-fledged application that can fulfil the user requirements by providing him food from the nearby delivery boy (zomato, swiggy, etc.) from that restaurants & mess service.

For the students studying in different cities, our system will be very helpful. The flexibility to the Users to order from either Restaurants or Mess is provided by our system. Recommendations to the customers are also provided from the restaurants & mess owners which are updated daily. There will be no limitation on the amount of order the customer wants by ordering food from our system. As a Start-up Business for the developers, the same system application can be used. Real-time customer's feedback and ratings are provided by our system with the comments to the restaurants & mess owner. It gives proper rating to customers, so if there is any error happened, then there will be a rating dialog toward users.

II. OBJECTIVE

1. To make homemade tiffin easily available to users and tracking the mess for delivery.
2. Useful for college students, hostel residents, and employees. As the application will provide a system ordering a home-made food on the go.
3. The users of the application won't have to worry about the quality of the food, as the food would be as good and clean one would expect from his/her home. Also, the meal would be easily available at the hands of the application user.
4. The approximate time of arrival is determined and hence the user can get to know the current location of the tiffin box delivery boy.
5. The increasing use of smart devices and other mediums has covered the way for users to order food almost from anywhere. This has increased the same food prices on different Food delivery Applications.

III. LITERATURE SURVEY

Given below are the research papers used for our analysis whilst considering various approaches.

In [1] along with customer feedback for a restaurant a design and execution of wireless food ordering system was carried out. It enables restaurant owners to setup the system in wireless environment and update menu presentations easily. Smart phone has been integrated in the customizable wireless food ordering system with real-time customer feedback implementation to facilitate real-time communication between restaurant owners and customers.

In Paper [2], the purpose of this study was to investigate the factors that influence the attitude of internet users towards online food ordering in Turkey among university students. A Technology Acceptance Model (TAM) developed by Davis in 1986 was used to study adoption of Web environment for food ordering. Trust, Innovativeness and External Influences are added to the model as main factors along with TAM.

In Paper [3], the research work aims to automate the food ordering process in restaurant and also improve the dining experience of customers. Design implementation of food ordering system for restaurants were discuss in this paper. This system implements wireless data access to servers. The android application on user's mobile will have all the menu details. Kitchen and cashier receives the order details from the customer mobile wirelessly. These order details are updated in the central database. The restaurant owner can manage the menu modifications easily.

In Paper [4], this research works on efforts taken by owners of restaurants to adopt information and communication technologies such as PDA, wireless LAN, costly multi-touch screens, etc. to enhance dining experience. This paper highlights some of the limitations of the conventional paper based and PDA-based food ordering system and proposed the low-cost touch screen-based Restaurant Management System using an android Smartphone or tablet as a solution.

In Paper [5], the purpose of the study was The application is based on user's requirement and is user centered. All issues related to all user which are included in this system are developed by this system. If people know how to operate android smart phone wide variety of people can use the application. This system will solve the various issues related to Mess service. To help and solve important problems of people implementation of Online Food Ordering system is done. It can be concluded that, based on the application: Orders are made easily by this system; Information needed in making order to customer is provided by the system. Receiving orders and modifying its data is possible through the application and it also helps admin in controlling all the Food system

PROPOSED SYSTEM

1) Many methodology have been developed by studying customer's behaviour so as to attract more business development and participation of people. As there are many Food delivery Applications available it becomes difficult for users to choose the best deal for desired food amongst these Applications. Comparison of foods using web mining enables users to analyse prices and get desired food at a minimum price. Users can also select multiple foods that belong to the same category for comparing with multiple food Application with quality. To obtain best deals from food delivery Application.

2) It is a 2-way communication application where the user's current location will be detected first. And according to his current location nearby hotels/mess 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 menus a separate button will be kept. A user will be directed to the cart then, where one has to select no. of particulars which he wants to order. The mess 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 mess receives a notification that charge has been positioned The user's database mess database is being saved in Firebase. After placing the order the User can actively track the tiffin.

IV. MODULES

1. Admin Module:

- 1) Admin can login the application.
- 2) Admin manages the order and supports customer.
- 3) Admin provides username and password for respective.
- 4) Admin also provides a best deal with discount for user. Zomato, Swiggy, Foodpanda are the admin for our application

2. User Module:

- 1) User can login into the system using username and password.
- 2) User can order the required or favourite food.
- 3) User can also search for best deal with discount offer.

3. Tiffin Module:

- 1) Mess can login the application.
- 2) Mess manages the order and supports admin.
- 3) Mess Accept the order food at the login
- 4) Mess also provides a best deal with discount for user.

IV. IMPLEMENTATION

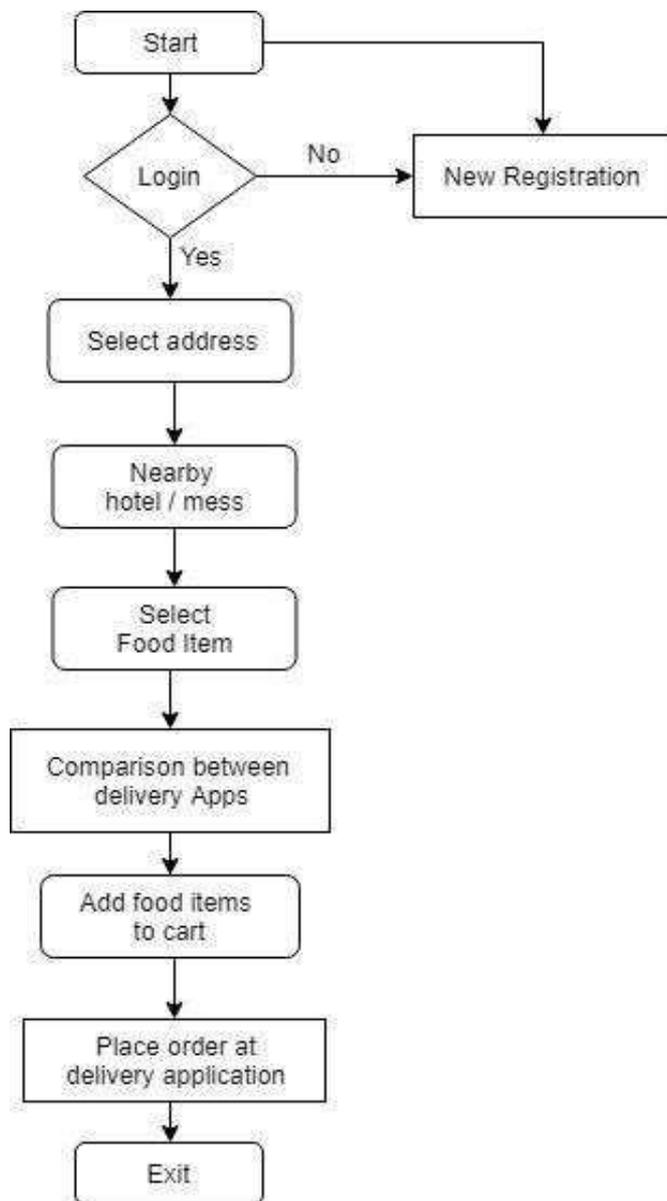


Fig 1. Flowchart for the application ordering process.

The front end system provides a graphical user interface (GUI) in the form of Application where customers interact with the system whereas the backend consists of Firebase database in order to extract food data from different Food delivery Applications. The extracted data of Food delivery foods are stored in a database. Customer requests for desired food from our application. Food Data is displayed on our application. The customer can see prices of required food at one place present on different Food delivery apps. Another feature is provided on the Application that compares foods. The user can add foods of same the category to compare. The user may also analyse the food for its details. It is an application where the 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 another day menu a separate button will be kept. The user will be directed to the cart then, where one has to select no. of particulars which he wants to order.

V. CONCLUSION AND FUTURE SCOPE

Comparison of Food delivery foods Application using web mining is application which will help users in decision making while ordering foods online. This Application will facilitate users to analyse prices that are present on different Food delivery food ordering Applications so that they get to know the cheapest price of food with the best deal. The Application will also have the facility of comparing foods with all its specifications that belong to the same category. This will surely save customer efforts and valuable time. Ultimately, this will bring together methodology, best offers and deals from all leading online ordering Application and will help customers to order online food with low price with the best quality. The two way home made tiffin services application is useful for both the customer and the mess. Since the user can order his homemade tiffin at his doorstep or where ever he/she is. And the mess will attract lots of customers which results in their profit.

VI. REFERENCE

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