International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056
Volume: 08 Issue: 04 | Apr 2021 www.irjet.net p-ISSN: 2395-0072

Food Pay with Big Data Handling

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Abstract - In today's scenario everything or problem has an online solution. In many hotels they deal with the problem of manually written the order of every customer which causes the wastage of time and also the wastage of paper. Every staff need to remember and written the course of the menu for their mills and also customer need to wait until he finishes the writing of first order. And he also needs to wait for paying their mills or performing the transaction. So, to reduce the human work load and saving their time Food pay is a solution to them to make their transactions secure and easily without wasting their time. This is an android application for the transaction which stores their monthly records and for generating the bills for payment.

Key Words: Food Ordering, Android Application, Big data handling, firebase.

1. INTRODUCTION

Food Pay with Big Data Handling is an android application which uses to reduce the human workload and for the secure transaction for the mills which will ordered by customers who come into the hotels. Firstly, with the help of android studio we build an GUI for our application with the help of this GUI customer can order their mills. This data we are storing into the firebase which is real-time database platform-as-a-service. In firebase stored the record of staff and customer about their mills along with the price now, we fetch this data using cloud technology then we will write a google script for accessing the data and this script we are going to connect with google sheet which shows the record to the admin and at the time of payment. google sheet calculate the record of every staff or customer separately and generate the bill and send it to the personal account of every staff or customer. Then the click on the navigation bar and apply for the payment we are going to connect UPI with the application so they can easily pay their month bill.

2. LITERATURE SURVEY

Following are the research papers, we studied for our system:

[1] Annu Lambora and Kunal Gupta proposed a wireless menu card system. This is a personal digital assistance (PDS) system for the effective working of restaurants. PDA is wireless based system where customer can give the order from the tablets through an application from reserved table. Firstly, customer needs to register himself/herself through the application. Customer can see the menu on the tablet with the images and select the dishes. All selected dishes will get stored in the cart. From card user can give the conformation for dishes. Ordered food will directly go to the kitchen end, where the owner can see the customer order and proceed further.[1]

[2] Rohith and others developed a technology that provides fast ordering system inside the restaurant using restaurant's Wi-Fi by giving internet access to the authenticated customers. As customer gets connected to the hotel Wi-Fi, a page gets displayed to enter table number for authentication purpose. During this time, he/she cannot access any sites other than hotel's menu page. A unique password will be assigned and displayed on the LCD display mounted on respective table. As he/she completes the authentication, the menu page will be displayed on his/her phone, through which the customer can place the order. As the customer selects the dishes, it will be stored in the cart, from which he/she can verify again and modify the quantity details and then place the order. After placing the first order the network will allow the customer to access other sites. It also provides paperless billing system to the customer. [2]

[3] Lavine mall and Nihal Sheikh developed a "Canteen Management System Using RFID Technology Based on Cloud Computing". This system is much easier for ordering food through online and make the payment way easy and secure. It also provides a trustworthy way for storing records and keeping the money safe as mostly the payments are made online via virtual money. This automation procedure is achieved by using radio frequency identification (RFID) card and cloud computing. Here the RFID tag is used to pay the money for food ordering.[3]

[4] Adithya R, etal proposed "Online Food Ordering System". In this system the food menu is posted online. The customer can order his / her food online. This system is developed in such a way that

customer can track the food items ordered. The system also offers a way for the customer to give feedback for the food items.[4]

3. METHODOLOGY

Here customer first registers his/her details to the application. A login screen for entering the username, password will be provided. Access to different screens will be based upon the user i.e. admin has different access and user have different access. There is a screen for placing order as per choice i.e. Breakfast, Lunch, and Dinner. There is screen for billing of food booking and for changing profiles information regarding personal information. There is a screen for getting order as per orders made by user for that hotel. There is choice for changing menu and select the food items according their choice. There is a screen for kitchen staff for displaying information regarding orders to be made by user. If the user entered wrong username and password the message will be displayed that the username and password are invalid. If account does not exist then the message would be displayed that the account is not exist. User must verify their email id or phone number by pin number send by server. Users should have basic knowledge and should be comfortable using general purpose applications on mobile. Then we provide a payment module with the help of that module customers can pay the bill online for that we attach different UPI with that module which helps customer to secure their transactions.

4. PROPOSED SYSTEM

In our propose system first our user register him/her details to the application. A login screen will be provided for entering username and password. There is a screen for placing order as per choice i.e. breakfast, lunch and dinner. There is screen for billing of order food item which will give monthly food bill of user. All the login, register and food order item these all data collectively store in cloud and we fetch that data and analyze it in well-structured format and perform clustering. And store it in real time database that in our project we using google firebase for storing data which store the data in tree like structure in JSON format i.e. key-value pair. whenever user order food item these data of user goes and update on google sheet and these all-user data is helpful for generating monthly bill of user ordered food and this bill will be displayed on user application.

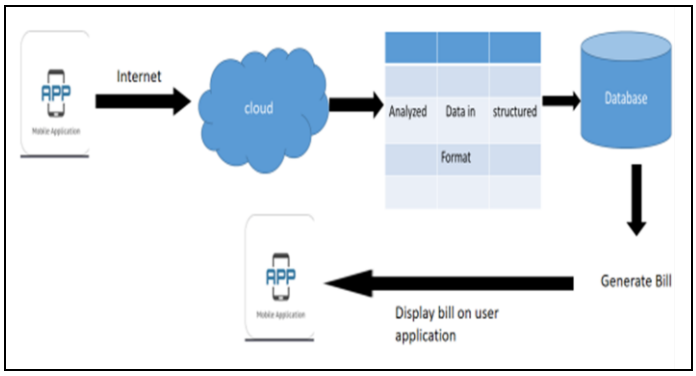

FIG. PROPOSED SYSTEM

5. KEY FEATURES OF SYSTEM

1. User make her/his own profile
2. Make book or order food from anywhere only they need strong internet connection
3. According to their plan they cancel they order also.
4. Generate monthly billing of their ordered food

6. ACKNOWLEDGEMENT

We would like to thank Prof. Anil Lohar Sir of Anantrao Pawar College of Engineering & Research, Pune for his expert guidance and valuable contribution for the betterment of the project.

7. CONCLUSION

In this paper we are providing information of online ordering of food. This application will lead helping to order their food on time and according to their need and also, they can pay bill also from this application. This also helpful for hotels, restaurants, school and college hostels for ordering food their as per their need and time.

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