EMPLOYEE FOOD ALLOWANCE MANAGEMENT SYSTEM

Kavya S P

SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

ANNA UNIVERSITY

COIMBATORE,TAMILNADU,INDIA

ABSTRACT :

Nowadays, mobile/computer devices with wireless technologies has emerged into the hospitality industry especially food courts with the advancements of food ordering systems. Most food court vendors use manual ordering process involving pen and papers in which noting down the orders can be quite slow and can caused errors in noting down the customers' orders. Based on QSR statistics, young generations usually order food online which caused the online ordering traffic to grow 300% faster than dinein traffic. Moreover, most people preferred to order through mobile/computer as it is more convenient and reduce their waiting time. Hence, E-FoodCart , a mobile/computer application is a employee friendly application for food ordering in which the idea and concept is similar to some existing applications such as Swiggy, Zomato. Whereas E-FoodCart gathers different vendors providing different types of food from the food court that is available in the company's area we can also implement it with the outside vendors as per our employee needs which can be satisfied by the company.E-FoodCart focuses to reduce the waiting time of employees in a queue to get their order . Furthermore, many food courts does not supplies any food ordering service we can add that too to save more time on going and collecting the order. The purpose of this application is to allow and assist the employees to order their food via mobile/computer devices. This is a secure and timesaving application for employees as they are required to register to the application using their own employee identification number. Besides the employees, vendors are also required to register to E-FoodCart application before they can offer their menu to the customer (employees). This is to ensure security and prevent any fraudulent act for both parties. For more secured ordering separate order IDs are maintained for every order uniquely.

Our E-FoodCart application is designed to track every employees food expenses and if it goes beyond the limit as per the companies criteria it will be deducted from the employees salary.

INTRODUCTION :

The labour rates are increasing steadily year on year thus making it difficult to find employees. The food industry is highly labour intensive and the biggest expense in the food industry is the cost of employing the right kind of people to do the work. One of the ways to reduce this expense is to use modern technology to replace some of the jobs done by human beings and make machines do the work. Here we propose an "Employee Food Allowance Management System" that has been designed for faster and error free delivery and maintenance of food from food courts. The system can also be used in any food delivery industry. This simplifies the process of food ordering for both the customer and the vendor, as the entire process of taking orders and maintaining food expenses history of employees is achieved with the help of modern technology.

OBJECTIVE :

To develop mobile/windows application for the tracking of food allowances of each individual employees working in a company.

EXISTING SYSTEM :

The current system is paper based. Papers are used in food courts for displaying the traditional menu cards, writing down the orders of customers, storing the records of expenses of companies. The disadvantages of paper based system are that papers can get easily damaged by water, fire or it can also be lost. Hence, time and money is wasted. As the menu cards are paper based we need alter the menu every time if there is a change and print new one, It leads to money waste. We cannot get the specific data needed as soon as possible in case of paper.This system is time consuming. One has to call a vendor number of times till he notices it, and wait for him to arrive at them to take their order.
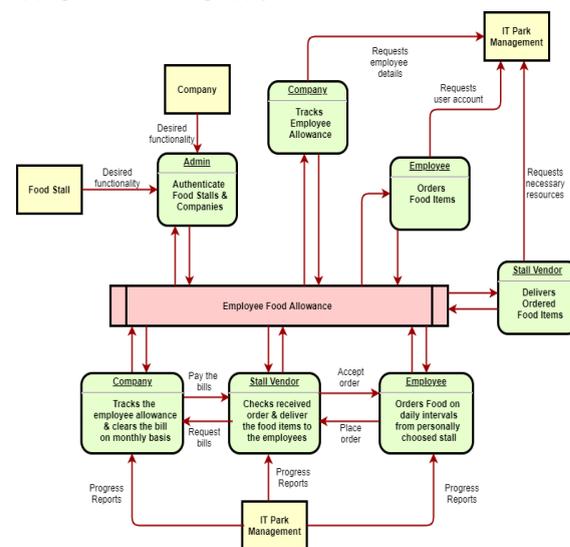
Also the vendor can misinterpret the employees order since he is writing the order on paper, and the case of wrong entry of order history is possible.For placing any orders employees have to visit food court to know about food items and then place order and pay.Here both time and human work is wasted.On placing order over phone, we lacks visual confirmation of food and also if order is placed correctly or not Every food court needs certain employees to take the order over phone or in-person, to make the order ready and process the payment. In today's market, employee rates are increasing day by day making it difficult to find labour when needed.

PROPOSED SYSTEM :

There is an universal fact that "People will purchase more when they can buy instantly rather than waiting for the service." Our proposed system is the advancement from man to machine work.It overcomes the error free of records of data for a long period of time until we delete.It reduces the manual calculation of payment by vendor.It also reduces the waiting time to order food and get food.It maintains the expenses of every employee of the companies that are available on monthly basis and if the expense is more than the company's food allowance limit for an employee, the extra amount will be deducted from their salary.So there wont be any problem to watch how much does each spend daily.Our E-Food Cart has made it simple and secure. Proposed system consists of following modules: Module 1:Login Module In login module the employee and vendors login will be taken while they already registered on the application. Every user will have login id and password to login to the application. Module 2:Registration Module This module is displayed to the visitors if they need to perform some order placements, and new registration for vendors who wants to do business with us on our online restaurant management application. Module 3:Home Page This module is used to display all the food vendors that are available in the food court and all the module tabs which perform separate tasks. Module 4:Profile Here the user details are displayed with their photo and their monthly expenses are listed. Module 5:Food Catalog Module This module describes the list of items

with prices that are available in every food vendors that are present in the food court. Module 6:Order Module The activity is performed by employee itself whose registration is already done. Once the verification is done by app, the order gets confirmed and food will be given to the respective employee. If the employee is new he can only order after the registration is complete. Module 7:Checkout Module This is additional feature given to add the food items in customer's virtual basket just like pending orders or the orders which customer wants to do later. Module 8: Order History The users can repeat their order from the history of purchase. Module 9: Order ID Module A unique ID will be generated for every order confirmation to maintain security and error free delivery. Module 10:Expense Tracker Every months food expenses of the employee will be displayed in their profile.Module 11:Admin ModuleIn this module the admin will have the power to add or remove the food vendors that are available in food court and has the list of companies that are using food court facility.Module 12: Vendor Module:In this module all the vendors that are available will have their user interface and they can add or edit, delete food items according to their daily menu. Module 13:Logout Module The last module describes that after placing order or performing some actions on the application the customer will click logout profile.

WORK FLOW:

SOFTWARE REQUIREMENTS :

Below mentioned are the modules we have used in our project Employee Food Allowance Management system, Desktop Application: C# is a general-

purpose, multi-paradigm programming language encompassing static typing, strong typing, lexically scoped, imperative, declarative, functional, generic, object-orientedand

component-orientedprogramming language which we have used to build for desktop application. As we use MYSQL for database it requires a server to be interpreted. Therefore, we have used WAMP server.WAMP Server refers to a software stack for the Microsoft Windows operating system, consisting of the Apache web server, MySQL database and PHP programming language. MySQL is a relational database management system based on SQL – Structured Query Language.We used it to maintain records and retrieve.Advantages of using MySQL:High speed, using the SQL queries, the user can quickly and efficiently retrieve a large amount of records from a database & it is very easy to manage the database system. For Mobile Application we use React Native & Firebase, React Native is an open-source mobile application framework created by Facebook, Inc. It is used to develop applications for Android,iOS,Web, Windows,etc. by enabling developers to use React's framework along with native platform capabilities.Firebase is Google's mobile application development platform that helps you build, improve, and grow your app.

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CONCLUSION:

Therefore, conclusion of the proposed system is based on user's need and is time saving and error free as compared to the traditional system.Moreover, this application is useful to all the introverts who hesitate to interact with others.The system is developed in considering all issues related to all user which are included in this system. Wide range of users can use this if they know how to operate smart phone. Various issues related to expense monitoring & ordering Service will be solved by providing them a fullfledged system. Thus, implementation of E-Food Cart is done to help and solve one of the important problems of people. Based on the result of this research.It helps customer in making order easily; It gives information needed in making order to customer. The Food website application made for food court can help vendors in receiving orders and modifying its data and it is also made for admin so that it helps admin in controlling all the Food system. With online food ordering system, a food court menu online can be set up and the customers can easily place order. Also ordering food through E-Food Cart makes tracking the orders easy, it maintain employee's database and improve the food delivery service. The vendors can even customize online food court menu and upload images easily. Having a food court menu on internet, potential customers can easily access it and place order at their convenience.

The idea of the advanced e-food cart can also be extended for future using GPRS module. GPRS module can be used to monitor and track where the employee is there in order to server them in time.And we can all implement delivery at their doorstep.

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