Project Proposal

Online Food Ordering System

Project - ICT 2212

Bachelor of Information and Communication Technology (BICT)

Degree Programme

Department of Information and Communication Technology

Faculty of Technology

Rajarata University of Sri Lanka

Mihintale

Details of the project

Project Title   : Online Food Ordering System

Group Number   : Group Number 07

Group Name   : OMICRON

Submission Date :

Group Members   :

Name	Registration Number	Signature
1. M.U.K.Gunawardhana	ITT/2017/2018/030	
2. K.B.Shalika	ITT/2017/2018/069	
3.M.G.Y.D.Gamage	ITT/2017/2018/028	
4. W.M.D.D.B.Wijesooriya	ITT/2017/2018/088	
5. S.Tharsan	ITT/2017/2018/075	

Internal Supervisor(s)

  Name   :   Mrs. Dinusha Premasiri

  Designation :   Lecturer (Probationary)

  Department :   Department of Information Communication and Technology

  Email   :   dmpremas@tech.rjt.ac.lk

  Signature :   _____ Date _____

External Supervisor(s)

  Name   :   _____

  Designation :   _____

  Department :   _____

  Email   :   _____

  Signature :   _____ Date _____

Faculty of Technology   Rajarata University of Sri Lanka

Table of Contents

List of Table

List of Chart

List of Figures

Faculty of Technology   Rajarata University of Sri Lanka

1. Introduction

An online food ordering system is a process that allows you to order a wide variety of food and beverages from local restaurants and hotels over the internet at home or wherever you are. The order will then be delivered to the specified location. Whether in the city or in the country, people lead busy lives. But especially when it comes to urban areas and big cities, people are too busy to have time to eat properly.

Today women are no less inferior than men in any field. In big cities, wives are also working women, so small families usually don't have time, so they can order food elsewhere. It's one of the growing markets. This system developed something similar to earn a better income and serve the country. Recently, I often eat lunch at restaurants. Online food ordering systems offer convenience to people who are less flashy but generally busy in society.

Thus, the system improves the speed of food delivery to the plate and the quality and manner of customer orders. We provide a better communication platform. User data is stored electronically. The Online Food Ordering System offers menus online and allows customers to order easily with the click or push of a button on their smartphone. online food ordering system also allows people to easily track orders, allows managers to maintain customer databases, and develop food delivery systems

2. Existing Problem

In the current scenario, unaware of the advanced technology in certain places, most of the time people have to actually go to hotels and restaurants to eat and pay in cash.
This method requires time and physical labor, of which no one has enough time.
Traditional food ordering processes are not efficient enough for hotels and restaurants as they must deal with crowds in restaurants.
The old methods can be divided into paper-based and oral-based categories. In a paper-based job, a waiter would come, take notes on the dishes ordered by the customer, and then pass the meal list on paper to the chef or cook in the kitchen for further processing.
Maintaining records and accounts in physical files is also a cumbersome and tedious task from an owner's point of view.
It is also risky because anyone can access and change the data.

3.   Proposed Solution

This system is a set of advantages from different points of view. This online application allows the end-user to register online with the system, select her preferred foods from a menu list, and order food online.

Also the payment can be made through online mode or at the time of home delivery depending upon the customer's choice and convenience. The selection made by the customers will be available to the hotel reception or to the person handling work assignment.

Faculty of Technology   Rajarata University of Sri Lanka

The same person now assigns the order to Chef to ensure that the order is filled within the specified time period.As soon as the chef prepares the food, the later person forwards the package along with the billing status to the carrier along with the customer's location and customer ID**.**

This application reduces the workload of hotel waiters, or eliminates them in some situations. One of the many advantages of this system is that if the restaurant has a rush or a large crowd, the restaurant's customers may turn away due to the table not being available.

Also there will be chances that the waiters are unavailable as they are busy in handling others, so the customer can directly order the food to the chef online by using this application, by checking the seat availability in the restaurant.

This system allow the staff to serve customer within less time as compared to the manual system.

4. Scope of the Project

4.1.Customer

This represents the set of customers, which are the clients who will be using this application. The customers are for whom the system is being designed.

Its attribute set includes:

- Name: Customer is the name of the customer, searching or purchasing the products. It is the composite attribute which contains two more attributes that is First_Name and Last_Name. That contains user's first name and last name. This is done for the future referencing and maintaining the user's data record (history).

- Cus_id: This is the identity number assigned by the admin to the users so as to identify them uniquely in future. This is mainly to manage the huge database system where the entire data is stored. It is a permanent identity number given by the administrator to the customer to maintain customer history.
- Cus_order_id: This is the identity number given to determine and manage the sequence of servicing. Since multiple customer will place orders, so as to schedule whom to give the delivery first is determined by the help of this number. It will be unique for each order a day, but can be repeated on a new day.

4.2.Address

This field is for the physical address of the customer where the restaurant authority is required to deliver the parcels.

- Address_id: An identity through which categorization of places may be done. As address may or may not be unique for each customer registered. But still this identity helps the delivery person to identify the right place to deliver.

- Zip_code: It is the pin code or the postal code of a region, and which is utmost important in any address, since multiple places, streets, bungalows with same name exist. This is even important in any national level identification of address. Also this will help the owner in surveying that which region has their more demand so as to expand their business in that region.

- Tp_Number: The users contact number is something that must be correct, because if at some point of time delivery person gets confuse with the address, it can be used for confirmation. Also the restaurant authority can contact to their customers for any type of feedbacks or to know the delivery service is good or not.

4.3. Order

The customers places order, which is not only till here, there are some work that need to be done in the database in order to maintain records for keeping track on monthly basis.

- **Order_id:** This is the identity number given to determine and manage the sequence of servicing. Since multiple customer will place orders, so as to schedule whom to give the delivery first is determined by the help of this number, so as to maintain consistency in the system working procedure. It will be unique for each order a day. But the same id can be repeated on a new day, as it is mainly for the restaurant's reference and to prevent any type of overlapping of thoughts between customers and owners. It is mainly for the chef's refrnce.

- **Cus_id:** This is the identity number assigned by the admin to the users so as to identify them uniquely in future. This identity number is helpful in fetching data of individual user from a big set..
- **Total_price:** This attribute manages the total price sum of the orders user has made in one attempt. It is one of the most important attribute, since most of the times people change their menu order list contents depending upon their needs, health and economical situation.
- **Timing:** Time is something most important to be valued. And one of the major reason behind the success of this food ordering system.

4.4. Payment

It defines the payment to be done by the customer for order placed from the web store at worth price. Also various security encryption mechanisms have been used, so the customer details of accounts and other credentials are safe and secure.

- Payment_type: The user is provided with lots of options that he/she can opt for making the payment depending upon their ease. There are two choices available like card payments (credit card, Debit card),and cash on delivery.

- Payment_id: It is for the benefit of user as well as the website owners, since the payment_id is helpful in maintaining the payment record in the database, as well as it is also provided to the customer after the successful completion of

Faculty of Technology   Rajarata University of Sri Lanka

payment. As later customer can claim anytime that they have already done the payments and the owners cannot deny. So it is useful to prevent any kind of fraud from both the sides.

- Price: It is the record of the total sum amount the user needs to pay, and after the payment, it is used to update in the server-side database to keep the record of the net profit or loss on daily basis.

4.5. Workers

The base of any company, restaurant or hotel is its employee. It is said that an organization is known by its employee and work. Employees will work honestly and with complete dedication if they are paid sufficient money.

- Worker_name: The name of worker is important to maintain their database of work and payment record. Also if any complaints are filed then it is required.

- Timing: Time is something most important to be valued. And one of the major reason behind the success of this food ordering system. So managing this cause becomes a goal to be completed. In order to maintain the business work better, the authority must stick to its commitment. Workers are paid for their good work and more than that for completion of work before time.

- Worker_id: To uniquely identify each worker and prevent any type of redundancy in records.

- Salary: The amount of money to be paid to the workers for their effective and on time work done.

4.6. Delivery-Mode

The delivery sequence and choice is not same for everyone but varies person to person. It may happen that even some time a person says no to home delivery as he/she is passing by and can pick the parcel themselves.

- Urgent: In some cases, like un invited guest arrival, late night, people prefer to pay more and get the order delivered urgently. So restaurants manage such situations by not following the sequence of order place, as they are getting more than usual. And with other customer whom they have delayed they manage it with some small gifts or offers.

- Normal: The usual mode of delivery, that is followed by the sequence of orders placed. It is the normal and majority case. The hotels manage do not need to put an extra effort to manage these.

5.Aim and Objectives

- Aim : The main aim of this project is the supplying of best foods and service to customers by using this system.
- Objective : Creating an efficient and accurate environment by minimizing human error committed by workers

6.Technical Approach

User can see home page and there are many buttons(select product,menu,my cart) to go related interfaces in the home page. After selecting their own products, they can add to cart. Next there is condition to check whether product no is equal to zero or no. If it is zero, user automatically return to home page to select product. If it is not zero, then check whether user is login to the website. if user logged, check payment details then payment details are correct. display an order confirmation message. If the user doesn't log then user moves to sign in page and if payment details are incorrect then cannot confirm order.

We use Laravel frame work (backend) to design web site with database. This website use to order products as well as we create mobile application using android studio .it is used by distributor to get details of order to deliver relevant destination. The databases are connected globely.
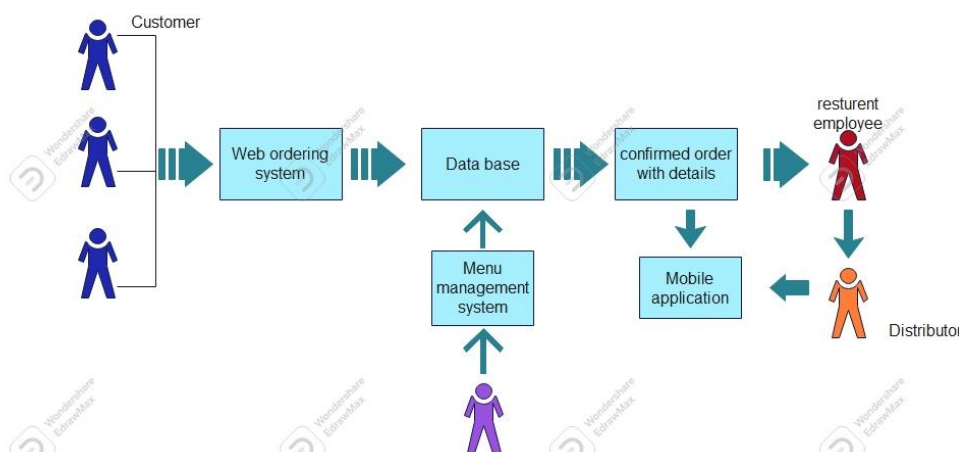

Figure1. Technical Approach(System model)

7. Project Work Plan

Task	Week	Date
Group Registration	01 week	
Proposal submission	01 week	
SRS report	02 week	
SRS Presentation	02 week	
SDS report	03 week	
SDS presentation	03 week	
Progress review meeting	02 week	
Progress Presentation	06 week	
Final report	02 week	

Table 1- Project Work Plan

Faculty of Technology   Rajarata University of Sri Lanka

Task	June 1	2	3	4	July 1	2	3	4	August 1	2	3	4	September 1	2	3	4	October 1	2	3	4	November 1	2	3	4
Group Registration				■																				
Proposal submission					■	■																		
SRS report						■	■																	
SRS Presentation									■															
SDS report										■	■													
SDS presentation											■	■												
Progress review meeting													■	■										
Progress Presentation															■	■	■	■	■	■				
Final report																					■	■	■	■

Chart 1- Gantt chart

8.Functional Requirement Specifications
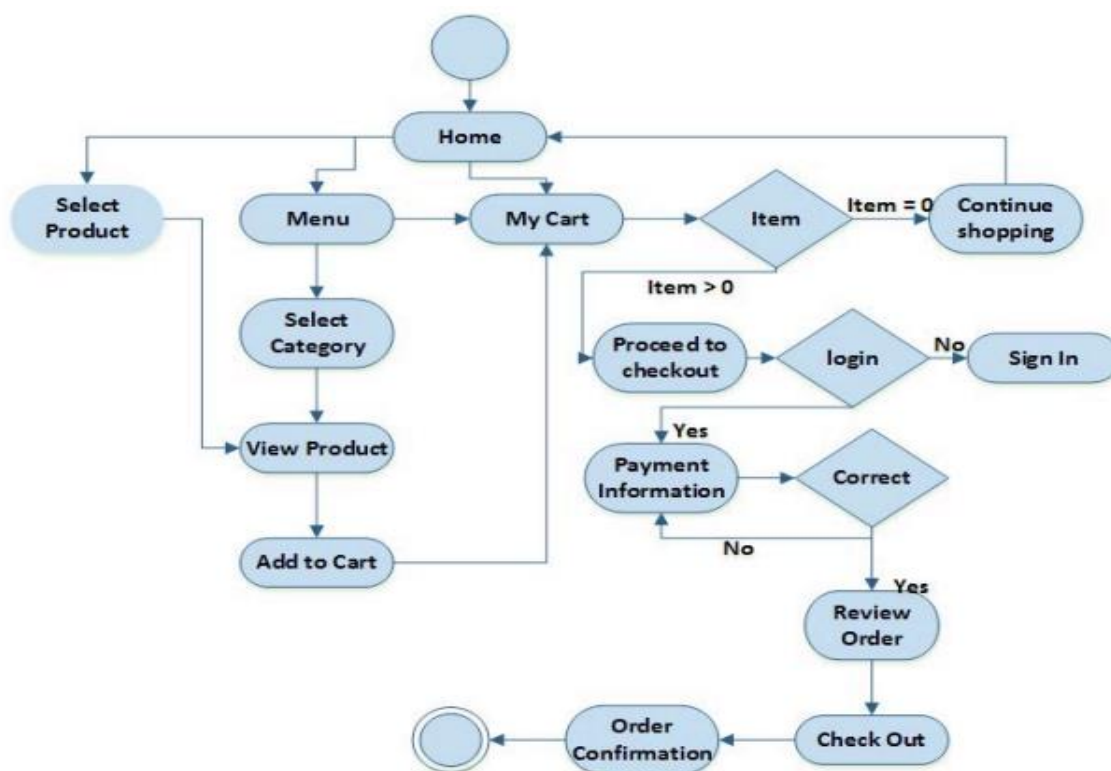
Activity Diagram:

Figure 2.Functional requirement(Activity diagram)

9. Project Resources

This section lists the minimum hardware and software requirements needed to run the system efficiently.

9.1.Human Resource

Task	Registration Number	Coordinators

Table 2- Human Resources

9.2 Hardware Resources

1. Pentium Processor
2. 60 MB of free hard-drive space
3. 128 MB of RAM
4. A desktop computer with Intel Core i3 64 bit processor

9.3 Software Resources

1. Operating System: Windows (Vista/7 or above)
2. Web Browser: IE 10 or above, Mozilla FF 31 and above or Google Chrome
3. Drivers: Java Runtime Environment
4. Integrated Development Environment: Eclipse J2EE or Apache Tomcat
5. Laravel frame work,Android Studio

10. Conclusion

In this era people trying to save more time and be as fast as possible with modern technology. Therefore, we found out some problems that occur when people buy food from restaurants. Lack of efficiency because of common human errors of bakery workers and poor management of customers were the problems. We were trying to give solutions to those problems that we mentioned before. After we implement our system, customers can order their needs by using our system quicker than before, there will be no errors and also the customer management will be better than before because our system will assign a table for each customer.