

# Digital e-Commerce Online Shopping Cart Software

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**Abstract:** FOOD KART is a windows application created for use in online food ordering system. This system will cafeteria to boost the level of trade by contracting the employment cost consumed. The software also allows quickly approaching and handily maintaining an on-stream menu which clients can surf and operate to place orders with just few clicks. Motel workers then handle these orders via an easy graphical interface for productive disposing. Hence, the software created for this project will empower clients go online to order for their food. Clients like to buy online because it will be secured and its time and this facility is available at anytime and anywhere. Anyhow, the extant food ordering systems still needs some aspects for ecommerce that are significant for client satisfaction. Clients would evaluate their practice most strengthen when any new application give affability for them to select the delivery method and get the message on their ordering status. When an order is given on the application which is designed, it is inserted into the database by customer and then retrieved by worker, in pretty much real-time, by a desktop application on the motel's end. Within this software, all products in the order are viewed, with their corresponding options and delivery details, in a clear to read manner. This paves way for the food business to immediately go through the orders as they are placed and produce the necessary items with minimal delay and confusion. The greatest advantage of this system is its FLEXIBILITY.

## I. INTRODUCTION

It is known globally that, in today's market, it is too hard to start a new small-scale business and live-through the competition from the well-started and settled entrepreneurs. In fast paced time of today, when everyone is busy with their work, the majority of people are fussy when it comes to placing a food order. The customers of today are not only attracted because placing an order online is satisfied but also because they also know about their items offered, cost and highly simplified navigation for the order.

Online ordering system that I am approaching here, greatly minimizes the ordering process for both the customer and the hotel. It presents an interactive and up-to-date menu with all available options in an easy to use manner. Customer can choose more than one items to place an order which will deliver the Cart. Customer can view all the order details in the cart before checking out. At the end, customer gets order confirmation details. Once the order is placed it will be saved in the database and accessed in pretty much real time. This allows Restaurant Employees to quickly go through the orders as they bought and process all products efficiently and effectively with deliver and confusion .A fast food restaurant also known as quick service restaurant (QSR) within the food service company is a specific type of hotel characterized both by its fast food cuisine and by minimal table service. Food served in fast food restaurants is offered from a limited menu, cooked in large in advance and kept hot, is finished and packaged for order and is usually available ready for pickup or to be delivered though seating may also be provided. The customers presently spend about 60 minutes per day going to the hotel, selecting their food and paying. Some restaurants have the provision of customers making a call to the hotel in advance to order a food to be ready for them for pick or to be delivered to them. Some of the consumers don't always get the selection they want because the restaurants run out of certain items or because there is no provision of ordering custom meals. Various type of food can now shop through the internet such as fast food, bakery, dinner, lunch and others. Customers able to view and select their favorite's food from the list add to cart, choose the delivery types, make payment and the order is complete. However, most of the existing online meal ordering system's still don't have the notification and delivery

facilities which are important for customer satisfaction.

## II .OBJECTIVES

This system will provide an easily manageable Quick Restaurant System with Email notification. Food Kart with notification boosts performance and services for clients via improved in day to day operations.

- Customers will have a visual confirmation about the order status and order will place correctly.
- Customers will able to know food ingredients before ordering.
- Reduces restaurant's food wastage.
- Improves efficiency of restaurant's staff.
- Increase level of accuracy Eliminate pen & paper work.

Online food ordering system with Email notification is helpful for increasing speed of service, sales volume and customer satisfaction.

## III .MOTIVATION

The inclination for creating this software came because solely people don't like waiting for long in the shop or to have to contact them to do an order especially on food time. Lately, I value studied about the CSharp Programming language as well as knowing how efficient and dynamic they are when it comes to windows applications and has lots of features. The programming languages used to create this software are C-Sharp and XAML at customer interaction areas and Mysql database at the back-end for storing data, because I found them to be extremely useful while working on technologies.

## IV. LITERATURE SURVEY

Electronic commerce is a new concept that comes into the business field during the 1970s. E-commerce is completely based on Internet. Here we discuss about e-markets, the effects of software on e-commerce, interaction of clients, and rise of technology. A definition of electronic commerce is advanced in terms of transaction cost theory, marketing, diffusion, information retrieval, and

strategic networking, electronic commerce adds value. Review by clients says that they would like the shopkeeper's to show better results on activities such as tracking ability, time and date of delivering product, easier deliver options and no. of delivering options. Tracking abilities to the clients can be done through software or through the mail or phone message. The review also got that the results of the clients can be done better by doing delivery messages to make the client on to be delivered time and option to choose required place to be delivered. Clients also require an easy way of delivery options. Because it is often restricted to pick-up by themselves only. The results also show that following is also required for clients to view their product status. Clients want a information or message alerts that make them alert when their order is to be delivered because it will issue a problem if the clients are not there when their product is to be delivered. Study by on Online Food Ordering System with Short Message Service Notification shows that the customer of bakery product would like the notification service for the details of order status. Every notification like order is placed or order is processing or order is processed or order is ready to pick. These notifications are sent by SMS (short messaging system).

## V. ABOUT NEW SYSTEM

It is the goal of the new system to address all the problems plaguing the present system. This system will do the analyzing and storing of data either automatically or interactively. It will make use of C#-MYSQL. This will be like this: a document is generated conforming to particular information needed by the management via the monitor. This will require the input of necessary information and record of fast food ordering and delivery and then a report is generated. The proposed system will also have some other features such as:

1. Accuracy in handling of data and information.
2. The volume of paper work will be greatly reduced.
3. Fast rate of operation as in making the ordered food available and delivered on time.
4. Flexibility (i.e. it can be brought in or accessed at any time).

5. Easy way to back up or duplicating data in sql file's in case of data or information loss.
6. Better storage capacity and faster retrieval system to be available in this system
7. Errors in the reports will be greatly minimized.

## VI. MODULES USED

In our proposed system we have four Modules Administration, Customer, Product Deliverer and Managers are which have several purpose like maintaining customer information and details, maintaining delivery information, maintain food court etc. This module provides the functionality for customers to place their order and provide necessary details. Users of the system, namely restaurant clients, must be provided the following functionality:

1. Create or make an account.
2. Manage their account details.
3. Sign in to the system.
4. Operate the restaurant's menu.
5. Select a product from the menu.
6. Add a product to their current order.
7. Report their current order.
8. Remove a product/remove all product from their current order.
9. Provide payment details and information.
10. Place an order.
11. Receive confirmation in the form of a product/order number.
12. View order placed.

### *Menu Management System Module*

This module accessed functionality for the power user-Administrator only. It will not be available to any other users to handle system like Restaurant Employees or Customers. Using a graphical interface, it will allow an Administrator to manage the menu that is displayed to users of the web ordering system:

- Add/update/modify/delete food category to/from the menu.
- Add /update/modify/delete food item to/from the menu.

- Update price for a given food items in menu card.
- Update additional information and details(description, photo, etc.) for a given food item. Before customers can actually use this system, functionality provided by its requirements will have to be configured first. Once the initial configuration is done, this will be the least likely used component as menu updates are mostly seasonal and do not occur frequently.

### *Order Retrieval System Module*

This is the simplest module to compare of all 3 modules. It is designed to be used only by restaurant employee sand workers to be accessed, and provides the following functions:

- Retrieve new orders from the database.
- Display the orders in an easily readable, view, graphical way.
- “Home” menu option:

Allows the users to see all products and food items offered with nice images as well as select a product/item to place an order. “Menu “option: a ‘Drop-Down’ menu, allows users to see all products and food items per category. Item can then be added to the cart using a single button click.

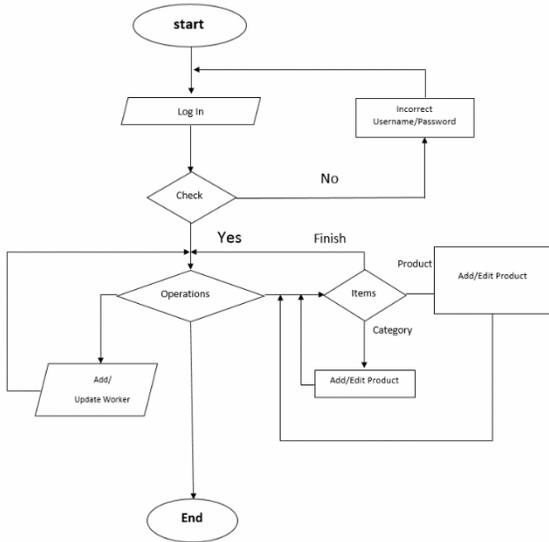
- “My Cart “menu option: - Allows users to see the information of the items placed in cart. Details include Item #, Product Name, Product Image, Product Description, Quantity, Unit Price, Total per item and final Total of the order. It also allows ‘Update’ and ‘Delete’ an item using single button click. Customer can then use a ‘Proceed to checkout’ button to proceed further. - Once, Check Out button is selected, user will be prompted for the Sign In/Sig Up process if not logged in else user will be presented with a simple “Payment Information” form. Customer will be asked to provide all required details in displayed text boxes and make appropriate Dropdown selections. Then, all this details and information can be saved using a ‘Save’ button. – Customer will then be presented with a “Review Order” page, which will display Payment Information along with Order details to review. User can then click the ‘Check Out’ button to place an order. - Once

order is placed, user will be presented with appropriate Order confirmation success/failure message. • “My Account”: a “Drop Down” menu will display the user orders, Sign In and Sign Out options.

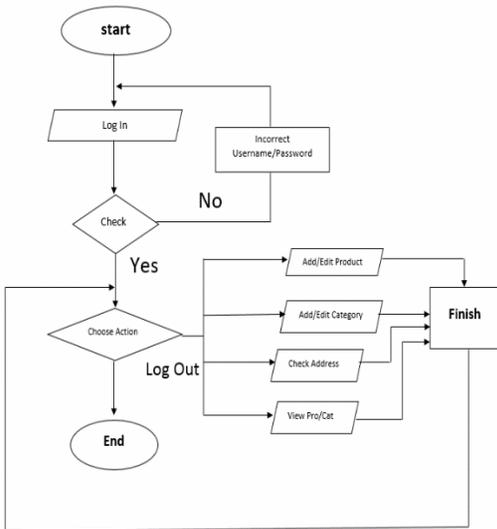
**FLOWCHART**

The flowcharts that are used to describe the function of worker, admin, user and deliver are given as below.

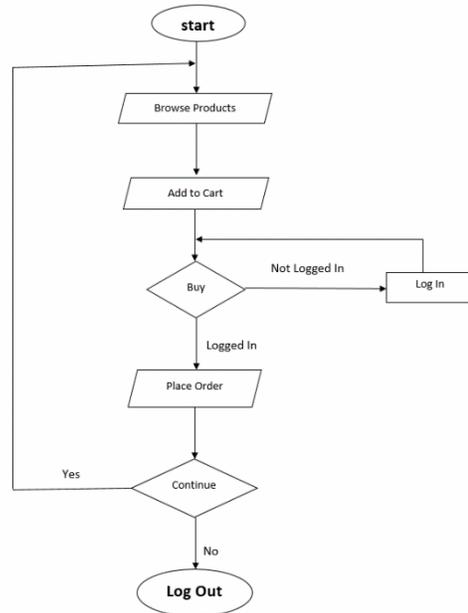
**ADMIN :**



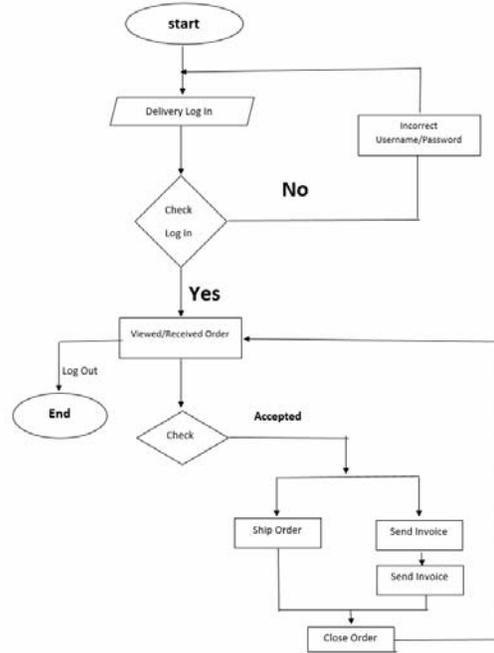
**WORKER :**



**USER :**



**DELIVERY :**



## VII .HARDWARE/SOFTWARE USED

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

### Hardware Interface:

- Pentium Processor
- 100 MB of free hard-drive space
- 128 MB of RAM
- Operating System: Windows 7 or higher

### Software Interface

Visual Studio 2012

Mysql.

## VIII .DATABASE SPECIFICATION

The database system used to implement the back-end of the system is MySQL. Access to the system was made possible by a graphical interface XAML. The database name is shop online and the structure of the data tables in the database are as follows:

1. Admin
2. Orders
3. Products
4. Category
5. Worker
6. User
7. Favorites
8. Recently viewed
9. Special

### *Admin:*

Admin is a database that is used to save administrator details such as administrator name, password, id, image. It saves administrator credentials for login access.

### *Orders:*

Order is a database that is used to store user's order's according to each user. It stores the

product id, user id and special item's id is saved if purchased.

### *Product:*

Product is a database that stores product information. It stores product information such as product id, product name, product description, product type, product quantity, product ingredients, product image.

### *Category:*

Category is a database that stores information about category of product. It stores information about category id, category name, category description and category image.

### *Worker:*

Worker is a database that stores Worker information. It stores Worker information such as Worker id, Worker name, Worker email, worker phone, worker type, Worker image, worker password

### *User:*

User is a database that stores User information. It stores user information such as user id, user name, user email, user address, user phone, user password, user image and the id of order's he shopped.

### *Favorites:*

Favorites is database that stores information about the products that are added as favorites by the user. It stores information about user id and product id.

### *Recently viewed:*

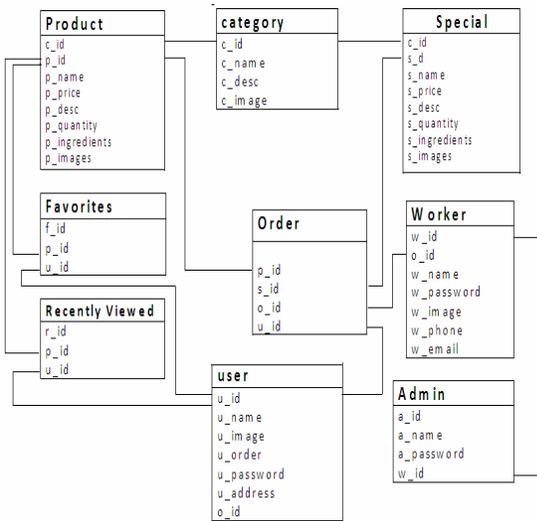
It is database that stores information about the products that are recently viewed by the user. It stores information about user id and product id.

### *Special:*

It is a database that stores special product information. It stores product information such as special product id, special product name, special product description, special product type, specialproduct quantity,special product ingredients, special product image.

ER DIAGRAM

The ER diagram for the application database is given as



IX. CONCLUSION

The online food ordering system using windows application is able to improve the performance of existing system by including the delivery services, Email notifications, and date for order delivery and options for delivery features. The notification is made using Email by using the registered phone Email id to notify the customer when the order is ready to pick up or delivered. The development of online food ordering system involved many phases. The approach used is a top-down one concentrating on what first, then how and moving to successive levels of details. The first phase started with a detailed study of the problems and prospects of ordering in old methodologies. In the course of this study, many problems were discovered to have hindered the effectiveness of the existing manual system. These problems, information needs and activities were documented and later used as the basis for system design, which immediately followed.

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