**Lovely Professional University**

**Final Report**

CLASS- K19GX(GROUP 1)

TITLE: Restaurant

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**Abstract**

**Creating a website for your restaurant is crucial if you want to attract new customers. ONLINE FOOD ORDER SYSTEM is a website designed primarily for use in the food delivery industry. This system will allow hotels and restaurants to increase scope of business by reducing the labor cost involved. The system also allows to quickly and easily manage an online menu which customers can browse and use to place orders with just few clicks. Restaurant employees then use these orders through an easy to navigate graphical interface for efficient processing.**

**Introduction**

**It is known globally that, in today’s market, it is extremely difficult to start a new small-scale business and live-through the competition from the well-established and settled owners. In fast paced time of today, when everyone is squeezed for time, the majority of people are finicky when it comes to placing a food order. The customers of today are not only attracted because placing an order online is very convenient but also because they have visibility into the items offered, price and extremely simplified navigation for the order.**

**Online ordering system that I am proposing here, greatly simplifies the ordering process for both the customer and the restaurant. System presents an interactive and up-to-date menu with all available options in an easy to use manner. Customer can choose one or more items to place an order which will land in 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 is entered in the database and retrieved in pretty much real time. This allows Restaurant Employees to quickly go through the orders as they are received and process all orders efficiently and effectively with minimal delays and confusion.**

**Advantages of Having a Restaurant website:**

A website is one of the most important marketing tools for restaurants. Not only does a site solidify your online presence, it enables people to visit your site, view menus, check the price-range of meals, and get an idea of the overall atmosphere. Unfortunately, it’s not always easy to rebuild or launch a restaurant website.

The goal is to make your restaurant website the best it can be, and CX3 Digital is already a proven leader in this arena. Let’s walk through the building of a restaurant website and go over any adjustments you might need to make for your particular type of venue. Following are some of the major benefits of having a website of restaurant :

a) With the help of website you can display endless amount of information about that restaurant at a very lost cost as compared to print media which is accessible 24/7.

b) It gives you a platform to provide basic information about the website without

taking much time of the end user as well as the manager & staff answering the phone call.

c) It also increases awareness of you business because when people are looking for information the first place they will look is on the web.

d) You can easily add an online booking link or app to your website giving your customers a quick way to make reservations on the go.

e) It also helps the customers to get the contact information , location of the restaurant and much more.

f) Many competing restaurants may already use a website to promote themselves; stealing your business. A well-presented easy to use website will help you highlight what you do well and may persuade customers to pick you over alternatives. Lack of a website may also suggest that you are no willing to invest into your business.

**Motivation**

**The motivation for designing this application came because my family is involved in the fast food business and I personally do not like waiting for long in the store or to have to call store to place an order especially during the peak lunch or dinner hours. Moreover, I value recent learning about the Java and JSP Programming languages as well as seeing how powerful and dynamic they are when it comes to web designing and applications. The languages used to build this application are JavaScript, JSP, HTML and Java at client facing whereas Oracle database at the back-end because I found them to be extremely useful while working on the technologies.**

**Aim of the Website**

**This website is developed to help computer science students to learn about the Web application designing using JSP and HTML from their basic capabilities to build a complete working application from scratch. Further, it gives insight about how GUI interacts with server-side language, Java, and finally with the Oracle database.**

**Background and Related Work**

**This Case study looks at the problem of setting up a fast food restaurant. In existing system there are few problems:**

**• For placing any orders customers have to visit hotels or restaurants to know about food items and then place order and pay. In this method time and manual work is required.**

**• While placing an order over the phone, customer lacks the physical copy of the menu item, lack of visual confirmation that the order was placed correctly.**

**• Every restaurant needs certain employees to take the order over phone or in-person, to offer a rich dining experience and process the payment. In today’s market, labor rates are increasing day by day making it difficult to find employees when needed.**

**Hence, to solve this issue, what I propose is an “Online Food Order System, originally designed for small scale business like College Cafeterias, Fast Food restaurant or Take-Out, but this system is just as applicable in any food delivery industry. The main advantage of my system is that it greatly simplifies the ordering process for both the customer and the restaurant and also greatly lightens the load on the restaurant’s end, as the entire process of taking orders is automated.**

**Anticipated Benefits are:**

1. **This will minimize the number of employees at the back of the counter.**
2. **The system will help to reduce labor cost involved. 3. The system will be less probable to make mistake, since it’s a machine.**

**4. This will avoid long queues at the counter due to the speed of execution and number of optimum screens to accommodate the maximum throughput.**

**METHODOLOGY:**

We will have the main home page which will be the main page of our project.

In our website there will be different tabs for each function of the restaurants.

Here are a few tips that will help our advertise for new restaurant website and bring in new customers. Add the Link to Your Social Media Profiles .One of the easiest ways to start advertising your new restaurant site is to link to it in all of your social media profiles. Most networks like Facebook, Twitter, and Instagram have a place to add a website link—so make sure you take advantage of it .Post Meal Photos On Instagram .Instagram is a very popular social network at the time, with over 700 million active users. Many restaurants are already taking advantage of the platform and sharing daily photos of their meals as well as their staff, restaurant interior, and photos that portray their brand in a fun and creative way. With the proper use of hashtags and geo-tagging your photos, you are bound to attract a few new patrons your way on a regular basis. Partner With Popular Food Apps .Consider participating in loyalty programs with popular online apps like [Belly](https://www.bellycard.com/" \t "_blank) or [Level Up](https://www.thelevelup.com/" \t "_blank). The apps encourage their visitors to check out your restaurant using gamification and loyalty programs, which often offer a discount for visiting a place a certain number of times. Use Food Blogger Out reach . Food bloggers usually have a substantial following, both on their blogs and on social media. Consider partnering with them and inviting them to your restaurant. You could offer them a free meal in exchange for an honest review . Offer a Coupon to New Customers .Now that you have a website, consider starting a newsletter as well. You can offer a meal coupon in exchange for an email address and more importantly, once visitors sign up for your email list, you can send them targeted emails that invite them to stop by when you host a special event or have a new signature dish on your menu.

**Program Requirements**

**The structure of the website can be divided into 3 main logical components:**

**• Web Ordering System- provides the functionality for customers to place their order and supply necessary details.**

**• Menu Management-allows the restaurant to control what can be ordered by the customers**

**• Order Retrieval System-This is a final logical component. Allows restaurant to keep track of all orders placed. This component takes care of order retrieving and displaying order information.**

**Product Function: The Online Food Order System application would have the following basic functions:**

**Web Ordering System Module**

**This module provides the functionality for customers to place their order and supply necessary details. Users of the system, namely restaurant customers, must be provided the following functionality:**

**• Create an account.**

**• Manage their account.**

**• Log in to the system.**

**• Navigate the restaurant’s menu.**

**• Select an item from the menu.**

**• Add an item to their current order.**

**• Review their current order.**

**• Remove an item/remove all items from their current order.**

**• Provide payment details.**

**• Place an order.**

**• Receive confirmation in the form of an order number. • View order placed.**

**Additional Feature:**

**• eClub- Allows user to subscribe to eClub to get promotional deals and discounts offers.**

**Out of all the functions outlined above, Account Creation and Management only will be used every time a customer places an order. This will allow to simplify the overall user experience.**

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

**• Add/update/delete food category to/from the menu.**

**• Add /update/delete food item to/from the menu.**

**• Update price for a given food item.**

**• Update additional information (description, photo, etc.) for a given food item.**

**Conclusions and Future Work Conclusion:**

**The main objective of the website is to help Computer Science students understands the basics of CSS, JavaScript and HTML. The following results have been achieved after completing the system and relate back to the system’s objective.**

**• Should allow Computer Science students to browse through the code and application: This can be achieved when students are able to run and install the application. When they run the application, they can browse through the implementation of different objects.**

**• Should allow users to browse through different product categories: This is achieved through an easy to use graphical interface menu options.**

**• Should allow users to save items to the cart and view detailed information about the order: The users can add any number of items to the cart from any of the available food categories by simply clicking the Add to Cart button for each item. Once item is added to the cart, user is presented with detailed order to review or continue shopping.**

**• Should allow the user to CheckOut the item(s): This is achieved using the “Proceed to checkout button” in the cart initially and then “CheckOut” button at last step after “review Order” step.. Button is disabled when there are no items in the cart.**

**• Should allow the user to process the payment: This is achieved when user selects “Processed to Checkout” button and fill up the Payment information details.**

**• Should allow the user to see Success message after placing an order: This is achieved when user successfully places an order. The user is given the order conformation number along with success message.**

**Future Work:**

**The following section describes the work that will be implemented with future releases of the software. • Customize orders: Allow customers to customize food orders**

**• Enhance User Interface by adding more user interactive features. Provide Deals and promotional Offer details to home page. Provide Recipes of the Week/Day to Home Page**

**• Payment Options: Add different payment options such as PayPal, Cash, Gift Cards etc. Allow to save payment details for future use.**

**• Allow to process an order as a Guest**

**• Delivery Options: Add delivery option**

**• Order Process Estimate: Provide customer a visual graphical order status bar**

**• Order Status: Show only Active orders to Restaurant Employees.**

**• Order Ready notification: Send an Order Ready notification to the customer**

**• Restaurant Locator: Allow to find and choose a nearby restaurant**

**• Integrate with In store touch screen devices like iPad**

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