**Chapter I**

**PROBLEM AND ITS BACKGROUND**

This chapter will discuss the background and problem of the management system for food e-commerce as well as the objectives of the study and the scope and limitation. It will also explain the significance of the study, the conceptual framework and the definition of terms of the proposed system.

**Background of the Study**

Nowadays, the online publisher prioritized the visitors of their site is to be satisfied with their needs and expectation. The management system for food e-commerce is one of the latest services for fast food restaurants in the western world are adopting. Content management system (CMS) use by web publishers to instantly and dynamically update their web pages and settings as new content becomes accessible so that every visit to a site are engaging, informative, resourceful and meaningful.

Participants explore the fundamentals of planning dynamic websites, content management system database management, and creating database-driven websites through the planning and creating of their own topic-based site. Some of the content management systems integrate with content delivery applications to deliver the content via a website. With this method, food is ordered online and delivered to the customer. This is made possible through the use of electronic payment system. The system designed in this project will enable customers go online and pay through PayPal or cash and place order for their food without any traffic issue.

Due to the great increase in the awareness of the internet and the technologies connected with it, several opportunities are coming up on the web. So many business and companies now deal with their business with ease because of the internet. One of such business that the internet introduced is a management system for food e-commerce. In today’s age of fast food and take out, many restaurants have chosen to focus on rapid preparation and delivery of orders rather than offering a rich dining experience. We the proponents also see the errors by trying their web pages as the developer of a website, you’ll need to ease the traffic jam caused by the many users who use at the same time. The developer should monitor the data that goes in and out and sure the important data.

That’s why we proposed Management System for Food E-Commerce with PayPal integration and database algorithms because we knew having a PayPal payment is less time and less bother to the customer. And we include some database algorithms for the security of our database, faster the manipulation and processing of data, security the customer and clients’ personal information, transaction and even bank accounts. Also included the search algorithms to became more efficient and to optimize the time of searching and loading of the web page. There are 3 users: Administrator for the distributing, monitoring the reports and transaction, Customers for the ordering, transaction, contacting the developers and Agent for the updating the product or templates available, if they have a new product.

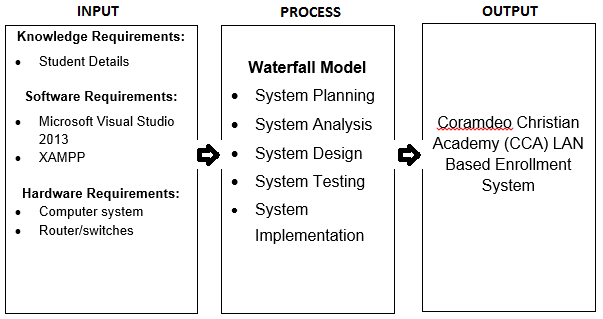
**Statement of the Problem**

The purpose of this study is to develop a management system for food e-commerce with PayPal integration and database algorithms that help the user to control the site they provided or created. The main problem of the other online food ordering website they don’t have PayPal payment, geographical location of the customer, less security provision, internet traffic, and the accurateness of the product management.

Specifically, the researcher’s determined questions for this purpose were the following:

1. How the researchers or proponents will have a file management system that can handle the uploaded files or documents of the user?
2. How the management system for food e-commerce with PayPal integration and database algorithms can maintain and secure the files, product and transaction of the client?
3. What are the helps of having different modules of a management system for food e-commerce with PayPal integration and database algorithms performing to improve the website?
4. How the clients and customer pay their purchased template or product?
5. How the clients sure if the management system for food e-commerce with PayPal integration and database algorithms is very secure and safe for the money transaction to those unethical hackers?
6. What is the performance of the system according to:
7. Accuracy,
8. Productivity,
9. Security?

**Conceptual Framework**

The conceptual framework shows the need of the system.

**Knowledge Requirements:**

* Client information
* Customer information

**Software Requirements:**

* Google Chrome 51.0.2704.103 or any web browsers
* XAMPP
* Operating System – Windows 7 or higher

**Hardware Requirements:**

* A Laptop or Desktop
  + System Requirements
* 1.6 GHz or faster processor
* 2 GB RAM
* 500 GB Hard disk
* 1024 x 768 or higher display resolution
* Internet Connection

Management System for Food E-commerce with PayPal integration and database algorithms

**Waterfall Model**

* System Planning
* System Analysis
* System Design
* System Testing
* System Implementation

This study aims to develop a management system for food e-commerce with PayPal integration and database algorithms with a mobile-friendly design, different modules and application programming interface (API), and the complexity of the entire proposed system. The diagram above shows how the project will be developed. The client and customer information is the main knowledge requirement of this study or system, the client information obtained sales transaction, personal information from us by purchasing template/’s and the customer information contains personal information of the customer for purchasing the product/’s and do the payment through the PayPal.

When it comes in system development life cycle model, the proponents used Waterfall model. Waterfall model is a linear and sequential development method. Each phase of waterfall model has a distinct goal. In planning and analysis phase, the proponents gathered data that needed in their system like as software requirements, hardware requirements and the idea in terms of e-commerce. They analyzed. Before the proponents starts the actual coding, they need to understand the requirements of the client side design and user, and the finished product look like. The design helps in indicating software and hardware requirements, and it helps the overall system planning. In the unit testing and implementation, the work split in different modules and the actual coding must start. The small part is called modules, modules are tested and developed for its functionality. And integrated all modules to the implementation.

Management System for Food E-Commerce with PayPal Integration and Database Algorithms is the output.

**Scope and Limitations of the Study**

**Scope:**

* It has 3 main modules on the main website: Guest side, Client side, and the Server side.
* It has a PayPal which the client paid the purchased template.
* It has an SMS (Short Message Service) or e-mail for the account verification.
* It has a feature which the client can buy a template uploaded to the web server or download it.
* The client can manage and operate its template by updating the file in the content management system feature.
* This system includes database algorithm for better and to optimize the processing of information from the database.
* It has security features which the client can sure their account secured and in the main system have an agent for the updating of the templates and uploading newly designed templates.
* The template has a 2 main module: Client side and the Server side.
* It has an admin of client site for the distributing, monitoring the reports and transaction.
* It can handle many users without the internet traffic issue.
* The administrators can add co-administrators or agent to help them to maintain their website.
* It has a google map feature to see the customer and client address.
* It has a feature which the customer can add a product to the cart.

**Limitation:**

* The templates available on this website is only for food E-Commerce Business.
* This system can only run with the internet connection.
* The downloaded template excluded the web server.

**Significance of the Study**

This study is to create a management system for food e-commerce with PayPal integration and database algorithms that benefit the proponents, clients, customers, and the administrators of the website.

***To the proponents.*** Making a large or complex type website is a big help to the proponents especially on their skills in programming a website. Being a client-side scripting or called as front-end, you will enhance your skills when it comes to color combination, designing, and user interaction. For being a server-side scripting or called as the back-end, you will enhance your patience, logical thinking, and finding the easy way to solve a specific problem.

***To the clients*.** With the help of Management System for Food E-commerce with PayPal Integration and Database Algorithms, the client will minimize their time to think or make a website for their food business. They don’t need to hire a web developer or web designer and fund too much for making them a website. Through this study or system, they can choose a different template with functions for their food business, also they can add some features to the purchased template. Also, they can easily pay the purchased template using PayPal.

***To the customers.*** This study helps the customers of the clients’ food business website, to know the latest food or update. They also can order or transact to the client without difficulty, prior to the payment they can pay through PayPal.

***To the administrators.*** With the help of this study, the administrators can simply facilitate their website or web page. They can update their website or web page without difficulty. They can also process their co-administrator to help them to maintain their website or web page.

**Definition of Terms:**

**AJAX (Asynchronous JavaScript and XML)**. The proponent uses AJAX for their website to send and retrieve their data back to the server or from the server without refreshing the page.

**API (Application Programming Interface).**  API’s makes the proponent life so easy they use predefined functions and other sub-methods that are stored in different libraries on the internet.

**CMS (Content Management System).** They use this for management, publishing, discovery, creation and distribution of information.

**E-Commerce.** They have a feature which the client selling products or goods over the internet

**Internet traffic.** Internet traffic is to determine the number of visitors and the number of pages they visit.

**JavaScript.** The proponent uses a JavaScript scripting language for their user interactivity to web pages.

**jQuery.** This jQuery is one of the frameworks of JavaScript, the proponent uses this to facilitate the implement, can do great things to a web page and very short coding.

**MySQL.** A database software to create a relational database management system to handle data to process the output of the management system for food e-commerce with PayPal Integration and database algorithms.

**PayPal**. The proponent uses PayPal for the payment of purchase template and purchase food product/s of the customer

**PHP (PHP: HYPERTEXT PREPROCESSOR).** A web programming language used by the proponents to develop a complex website.

**SMS (Short Message Service)**. A convenient way of sending a short message to someone used by the proponents.

**Web Server**. The proponents use this to deliver web pages on the request of a client through a URL.