**Chapter 1**

**PROBLEM AND ITS BACKGROUND**

**Background of the Study**

Nowadays, the online publisher prioritized the visitors of their site is to be satisfied of 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 properties as new content becomes available 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 system 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 internet and the technologies associated with it, several opportunities are coming up on the web. So many business and companies now venture into 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 quick preparation and speedy delivery of orders rather than offering a rich dining experience. We the proponents also see the errors by trying their webpages as the developer of a website, you’ll need to ease the traffic jam cause 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 new product.

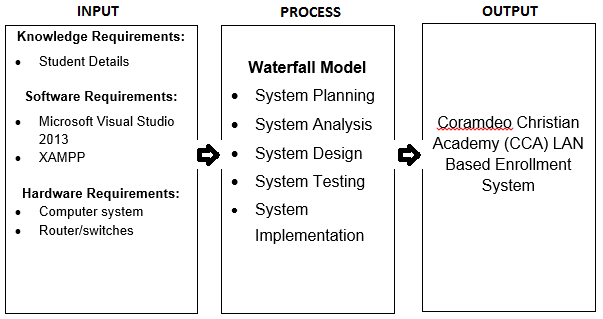
**Statement of the Problem**

The purpose of this study is to develop a management system for food e-commerce with PayPal integration and database algorithms that helps 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 a different modules of management system for food e-commerce with PayPal integration and database algorithms performing to improve the website?
4. How the clients sure if the management system for food e-commerce with PayPal integration and database algorithms is very secure and safe for money transaction to those unethical hackers?
5. What is the performance of the system according to:
6. Accuracy,
7. Productivity,
8. Security?

**Conceptual Framework**

The conceptual framework shows the need of the system.

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

**Waterfall Model**

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

**Knowledge Requirements:**

* Client information
* Client templates design

**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

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.

**Scope and Limitations of the Study**

**Scope:**

The scope shows the features of the system. It has a 3 main modules: Guest side, Client side and the Server side. In the guest side it has a documentation, community and help tabs to help the user to use or to know more about the system, the documentation tab includes all the features in the system and the update of the system, the community tabs in this section the user see the opinions of different user, they want to add to system. In the client side it has a feature which the client can buy a template uploaded to the web server or download it. The template uploaded to the webserver use it for month or even for a year and can downloaded it for offline mode. It has a PayPal which the client paid the template. It has a SMS (Short Message Service) or e-mail for the account verification. The client can manage and operate his or her 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 database. It has a 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 a new designed templates. The template has a 2 main module: Client side and the Server side. The system is accessible to everyone. In the client side of the template, the user can log in then the user can order and pay the bills on PayPal. If the client wants to update his or her template it has an extra charge on it depends on the features they want to added, in the server side, it has a admin for the distributing, monitoring the reports and transaction. And have an agent for the updating the product items and the product quantities and if they have a new product. It can handle many users without the internet traffic issue.

**Limitation:**

* The templates available in this website is only for food E-Commerce Business.
* The downloaded template excluded the web server.

**Significance of the Study**

**Definition of Terms:**

**AJAX (Asynchronous JavaScript and XML)** is a method for websites to send and retrieve data back to the server without refreshing the page.

**API (Application Programming Interface)** is a set of predefined functions, subs, and other methods that are stored in a Library.

**CMS (Content Management System)** supports the creation, management, distribution, publishing, and discovery of corporate information.

**E-Commerce** is selling goods or products over internet.

**Internet traffic** is determined by the number of visitors and the number of pages they visit.

**JavaScript** for adding interactivity to Web pages and creating Web applications.

**jQuery** is super easy to implement and they can do great things to a webpage.

**MySQL** is a database software to create relational database management system to handle data to process the output.

**PayPal** is a worldwide using online payment method.

**PHP (PHP: HYPERTEXT PREPROCESSOR)** is a web programming language used by the proponents.

**SMS (Short Message Service)** is a convenient way of sending a short message to someone.

**Web Server** is to deliver web pages on the request to clients.