ONLINE ORDERING AND RECORD MANAGEMENT SYSTEM OF LV'S SWEET HOMEMADE DELICACIES IN POBLACION, DAGOHOY, BOHOL

College of Technology and Allied Sciences
BOHOL ISLAND STATE UNIVERSITY
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A Thesis
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In Partial Fulfilment
Of the Requirements for the Degree
In Bachelor of Science in Computer Science

_____

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Jessa M. Casing
Angel R. Hagopit

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APPROVAL SHEET

This thesis entitled **"Online Ordering and Record Management System of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol"** prepared and submitted by *Josephine O. Moria, Jessa M. Casing and Angel R. Hagopit* in partial fulfillment of the requirements for the degree Bachelor of Science in Computer Science has been examined and recommended for acceptance and approval for oral defense.

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The Developers

ABSTRACT

The study aimed to develop an Online Ordering and Record Management System for LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol. Currently, the operation of the business uses the manual recording in ordering and sales transactions. It encountered gaps in recording of orders such as overlooked sales orders, time-consuming in finding the individual orders, and summative reports that would have shown essential data was done. The identified issues had led the developers to come up with a solution to secure the customer's information, create ease to prevent loss or misplacement of orders, and ease of access. With the needs identified, the online ordering and record management system was developed with the following modules: Acquisition, Ordering, Payment, Recording, Administration and Generation of Reports. The functionality of the developed system was performed on the identified users using a web usability questionnaire adopted from MIT Information Technology and Services. The results of the evaluation was 4.5 or "Excellent", rating this indicates that the system achieved the individual's expectation of the features. With this, it is highly recommended to implement the Online Ordering and Record Management System of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol.

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THE PROBLEM AND ITS SCOPE

Rationale

Using modern technological solutions can allow a business to gain significantly better exposure than possible in the past (Hoffmann, R. 2019). Technology is not only necessary for day-to-day business operations, it can also aid both small and large enterprises in growing and succeeding. Businesses view technology as a way to automate processes and use it to open up new ways of doing business in all ways. With the new technology that businesses have adopted today, accessibility and productivity have changed. Moreover, as this Covid-19 pandemic existed, the growth of small businesses through the web is arising. Instead of relying on time-tested, conventional marketing strategies, using a contemporary solution can increase a company's exposure at a low cost. One of the contemporary methods that can aid firms is building a website.

LV's Sweets Homemade Delicacies is one of the food service industries which offers desserts, homemade delicacies, and birthday packages. It is located at Poblacion, Dagohoy, Bohol along the national highway. The pandemic has pushed owners into pursuing online marketing to gather sales. Products are posted on social media as means of promotion and to be able to acquire sales transactions. It caters to delivering orders within selected areas in Dagohoy or pick up orders according to customers' preferences. Orders taken from customers outside Dagohoy, Bohol area is bound for pick-up. Customers can only order

through the business owner's personal social media profile where information for ordering and product availability is posted. At present, recording orders from the customer was done manually and written on a piece of paper. Customers encountered gaps in recording of orders such as overlooked sales and may encounter inconvenience in browsing products on their social media account. Social media can only give limited coverage of promotions (friends of friends). Organization of data such as sales, customers, and products must be done to take into account the growth of the business.

With the problems identified, the researchers intend to develop an online ordering system. The system intends to create a centralized system that focuses on the products of LV Sweet Home Delights where the customer views and may order the products in a more convenient way. It aims to will lessen the burden of the owner in keeping records of products and orders and provide a better means of data storage.

Literature Background

Based on the 1987 Constitution of the Republic of the Philippines, Article XIV, Section 10:

> "*Science and technology are essential for national development and progress. The State shall give priority to research and development, invention, innovation, and their utilization; and to science and technology education, training, and services. It shall support indigenous, appropriate, and self-reliant scientific and technological capabilities, and their application to the country's productive systems and national life."*

According to this article, the state shall promote and give importance science and technology. As of the article stated, it is essential to use the technology in the development and growth of the country. In coping up with the modern technology the state encourages all organization in utilizing and innovating science and technology. The use of technology such as the use of computerization of promoting tourism and businesses is one of the ways in coping up the challenges in modernization at the present times. Online platforms are one of the ways of utilizing the modern technology use as of today, websites are used in promoting services of small and big business. In relation to the article above the developers created an Online Ordering and Record Management System of LV's Sweets Homemade Delicacies of Dagohoy, Bohol where this system has the capability to help and improve the services in the said business.

To be able to gauge the effectiveness of technology utilization, Technology Acceptance Model (TAM; Fred Davis, 1989) has been one of the most influential models in terms of technology acceptance. It uses two primary factors influencing an individual's intention to use new technology: perceived ease of use and perceived usefulness. Davis defined perceived usefulness as the degree to which a person believes that using a particular system would enhance his or her job performance while perceived ease of use is defined as the degree to which person believes that using a particular system would be free from effort. The TAM features its emphasis on the perceptions of the potential user which will help the developers know if the future user is satisfied with the proposed system.

The rule of the Relational Database Management System (Codd, 1965) is followed in the concept database. The law states that for a system to qualify as an RDBMS, it must be able to manage the database entirely through the relational capabilities. The designs of tables in the database are related to the use of keys to connect tables. Such practice promotes the integrity of data and dynamic updates. Moreover, data can be retrieved from a relational database in sets constructed of data from multiple tables (Codd, 1965). The researchers cited this theory because this helps in managing the data of the system to be developed.

To provide accurate and reliable online ordering and record management systems, numerous related systems are accessible as references. The studies were:

1. Restaurant Ordering System. Wong, SJ. (2019) of Universiti Tunku Abdul Rahman. This reserach works on ordering system which the Wong identifies all the processes and address the problems faced by the current manual operations. Each module identified and addressed accordingly by the developer by creating admin management and user interface which let the customers used in online mechanism. This study is relevant to the developers as most of the operations is nearly the same with the operations that the current system that the researcher developed. Their propose approach in identifying the problems is by highlighting what have been achieved in operations and in the report organization. In identifying the functions for the user of the system Wong

use comparison table between similar systems. The study also shows the design of every modules that serves as a good reference to the researcher in developing system.

2. Web Based System for Café Wee of Avissawella, Colombo District. This Restaurant Management Software worked by Watagedara, PS. is a powerful web-based database application which helps the restaurant management to manage the restaurant more effectively and efficiently by computerizing meal ordering, billing, and stock management & accounting. This application is also designed for inventory, control, menu, recipe, sales management. The web-based system includes the modules in user management, menu management, customer management, billing and printing and accountancy and sales. The study clearly identifies and describes the problem and requirement and set a clear goal for the project using fact finding techniques. This study helps the researcher understand more in problem analysis as its applications and challenges is analyzed by requirement analysis with its functional and non-functional requirement. The study explains functional requirement that involves the actor or the users of the system, in the other hand the nonfunctional requirement involves the performance, reliability, usability and availability of the system (Watagedara, PS 2017).
3. Web-based ordering and Sales Management system of Quarteros bread and Cakes of Looc, Jagna, Bohol. Yray, et al. works on an online

ordering system and sales management for a bakeshop that enable customers to order their bread and cakes from the bakeshop. The system has modules for ordering, purchasing, sales and inventory, acquisition and administration. The system is related to our study because it has web-based application that enables customers to order products online. The flow of the study in a presentation of finding and analysis for the presentation of data helps us understand the background of manual operations and how it works that may apply to the computerization of the system. The presentation of needs of the existing operation helps us in identifying the use case narrative in describing the dialogue between the users and the system. This system is similar in terms of features and infrastructure, however, the researchers developed system has different product offered and has reports capability not found in the cited system (Yray, 2020).

The related studies listed above influence how the developed system is configured. The system that was created for the study is quite functional and updated, and it covers the aspects of efficient online ordering in Online Ordering and Record Management system of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol. The existence of related systems and the developed system has variances in terms of characteristics and information due to the system's provision of online ordering.

THE PROBLEM

Statement of the Problem

The study aimed to develop an online ordering and record management system of LV's sweets homemade delicacies in Poblacion, Dagohoy, Bohol.

Specifically, the research sought to answer the following questions:

1. What are the current operations and processes in the management of records and reservation in LV's Sweet Homemade Delicacies?
2. What are the problems and needs in the operations of reservation in the LV's Sweets Homemade Delicacies?
3. What are the possible solutions of the problem encountered?
4. What is the level of web acceptability as perceived by the owner of LV's Sweets Homemade Delicacies?

The system developed is called the Online Ordering and Record Management System of LV's Sweet Homemade Delicacies implements an online system that will help the customers in ordering and allows the owner to manage the orders. It covers modules in acquisition, inquiry, ordering, management, and report.

Scope and Limitation

The study focuses on the Online Ordering and Record Management System of LV's Sweet Homemade Delicacies. The following are the scope of the developed system.

1. **Online Mechanism.** This provides the official website of LV's Sweet Homemade Delicacies. And with this website, the customers simply access it to get information about the products it offers, such as the kinds of products with its price and description.
2. **Acquisition.** This includes the online ordering of homemade delicacies, customer information and product information. Incorporates a simple search facility which would be interfaced with module for easy searching of records.
3. **Online Ordering.** This includes the process in ordering the products which the customer chooses. This module comes after the customer acquires the product info and inputting his/her personal info and order details for the conformation of order.
4. **Purchasing.** The system will provide a method of payment mode thru G-cash or Cash on delivery. Customers' data in payment are being monitored and stored for future reference.
5. **Recording.** The system will provide records of ordered products and sales income. The system will provide module were the owner can manage the records of ordered products and view sales income.
6. **Administration.** The system will provide privileges and security and manage the records of customer's orders and products when logging-on the system. The system will provide a module where owner can add, update and delete the food items, category and records of order.

The study was limited to the standard operation and procedures of the ordering and recording of LV's Sweet Homemade Delicacies located at Poblacion,

Dagohoy, Bohol. The administrator has full access in this system. The customers can only view and order the available products.

Significance of the Study

The study aims to design and develop an online ordering and record management system of LV's Sweet Homemade Delicacies. The development of an online reservation and record management provide accurate, presentable information with easy and reliable access which optimize better service to the client and its customer.

Hence, this study will benefit the following:

Owner. The owner can have easy management of operations. Sales transactions are recorded accordingly. Product records and orders are organized given highlights and emphasis which will contribute to the effectiveness and efficiency of the business.

Staff. The system lets the staff view and manage the records of orders and also handle walk in orders.

Customers. The customer can have a central portal to view products and place orders. Placing of order is made to be convenient by providing a standard form. This will promote good, fast, reliable, and time-efficient services for them.

Prospect customer. The system will give the prospect viewer an easy access in viewing the products offered.

Public community. The presence of the online profile allows promotion of the availability of good food in the municipality of Dagohoy. It will also help to promote local products and other business owners to upgrade their ways to transact business.

Researchers. This study helped the researchers understand and familiarize the flow and processing of the ordering and recording system in general. The ability to communicate with other people through data gathering and observation was practiced. It also helped them enhance and widen their knowledge and skills in system analysis and design. This will also serve as a stepping-stone in the application of such potential for their future job.

Other Researchers. This study will serve as a basis and reference for similar processes covered. It encourages future researchers on conducting studies in relation to the adoption of technology applicable to boost and manage a business in the local municipalities.

RESEARCH METHODOLOGY

Development Framework

Figure 1 in the next page presents the conceptual diagram of the study that follows the principles of input-process-output. These are input coming from the owner, customer and staff. The process includes the Acquisition, Ordering, Payment, Recording and Administration. The output provides the decision support to the owner.

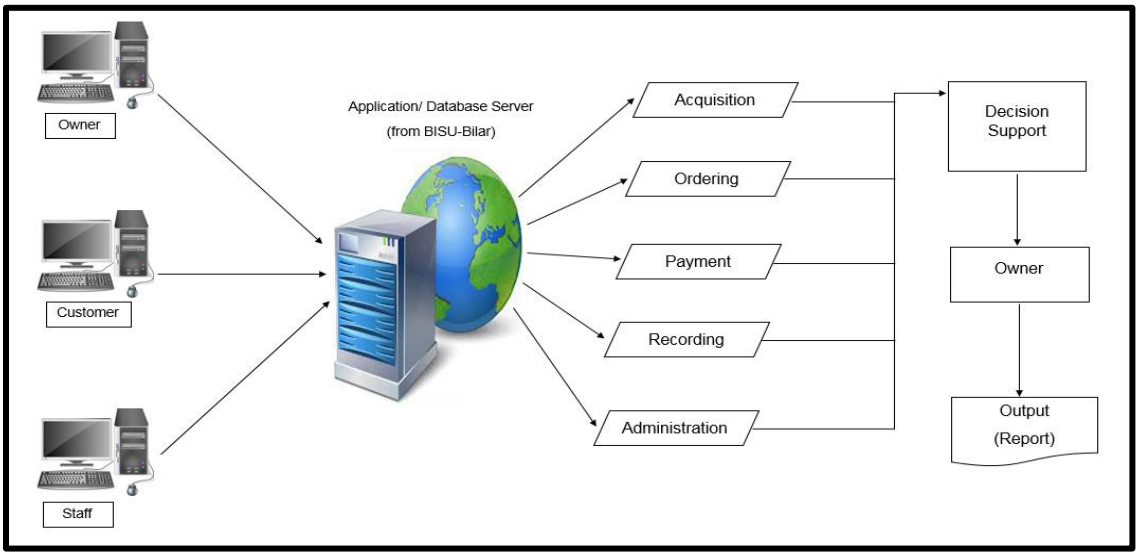


Figure 1. Conceptual Diagram of the Developed System

Figure 2 in the next page shows the block diagram of the developed Ordering and Management System of LV's Sweets Homemade Delicacies. It covers the basic functionality of the system that represents the person who will be involved in using and maintaining the system. The system provides the specification of the basic features of the system that serves with the entities, functionalities, inputs and expected outputs of the system.

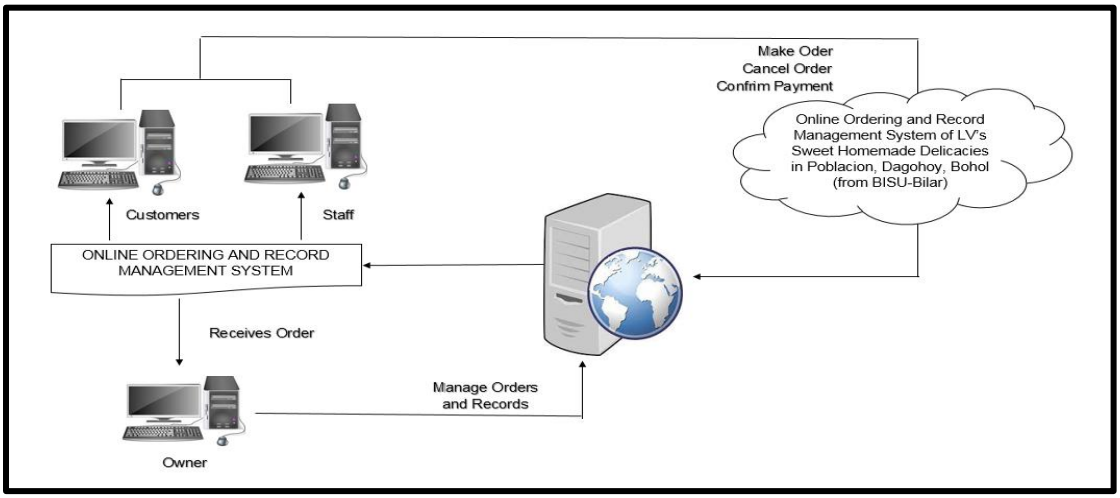


Figure 2. Block Diagram of the Developed System

Development Models and Approaches

In designing the software, the developers used the Rapid Application Development model to develop the Online Ordering and Record Management System of LV's Sweets Homemade Delicacies. Rapid Application Development takes advantage of powerful application methodology that involves techniques like iterative development and software prototyping.

There are four phases of RAD that has to follow. In the analysis and quick design phase, researchers gathered data and identified the problem. Analysis of the problem was made and identifying features to incorporate in the system was made. The researchers also use existing system to be a basis of concept and implementation as reference to the study.

In the prototype phase, design, build and refine activities were done. After identifying the elements to be incorporated in the website, coding was carried. Each module identified was implemented one by one within the structure of the website. Further improvement of design and enhancement of modules was covered until the researcher and owner were satisfied with the outcome.

When the design of the system and the build phase in the prototype was completed, and the application software was implemented for testing. Activities to prepare for the transition of the system to production status was also performed.

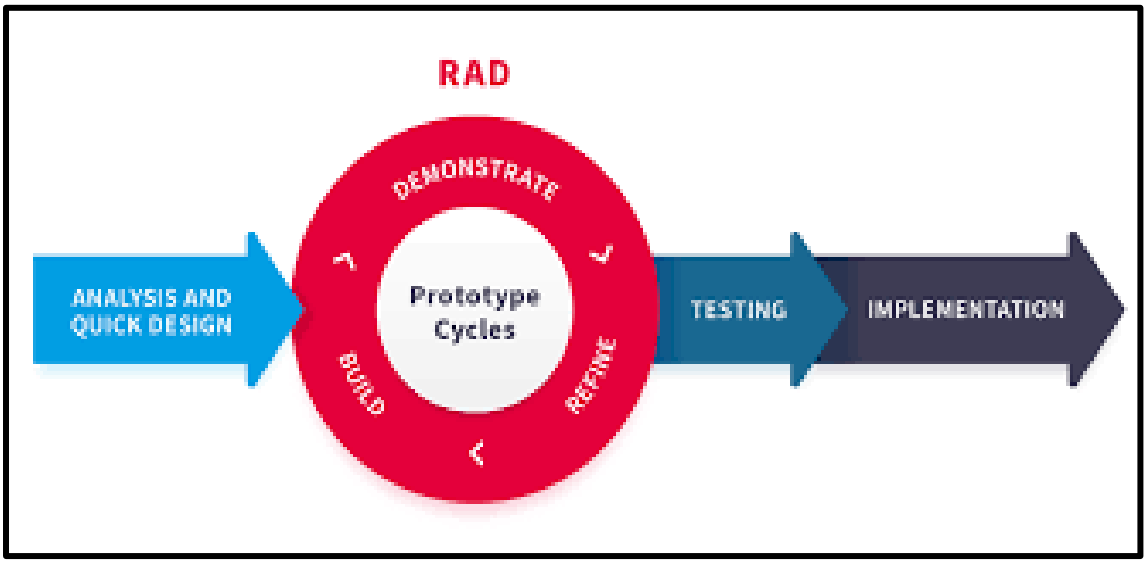


Figure 3. Rapid Application Development Model

These were the tools used in the development and analysis phase of Online Ordering and Record Management System of LV's Sweets Homemade Delicacies.

1. **WAMP Server** – is a window web development environment that allows creating web applications with apache2, Php and MySQL Database. It was used in the connectivity of the Apache server and MySQL databases.
2. **MySQL** – it is the world's most popular open-source database, enabling the cost-effective delivery of reliable, high-performance and scale Web-based and embedded database applications. It will be used in the connectivity of databases in the programming of the proposed system.
3. **PHP –** is a general-purpose scripting language geared towards web development. It will be used in the scripting language for the development of the Online Ordering and Record Management System of LV's Sweet Homemade Delicacies.

4. **Hostgator** – is a popular web hosting service that offers shared hosting plans, a cPanel dashboard for managing your website, and excellent customer service. It is used in the online implementation of Online Ordering and Record Management System of LV's Sweet Homemade Delicacies.
5. **HTML –** The **Hypertext Markup Language** or **HTML** is the standard markup language for documents designed to be displayed in a web browser.
6. **CSS –** it is a language that describes the style of an HTML document and describes how HTML elements should be displayed.
7. **Adobe Photoshop CS 6** – A software program developed by Adobe that allows users to edit graphics. It is used as a tool for enhancing the design for the development of the developed system.
8. **Notepad++ –** is a basic text editor that's built into Windows. It is excellent for writing relatively short text documents that you want to save as plain text. This tool enables the researchers to easily make modifications during the development of the system. It was used to edit PHP scripting language.
9. **JavaScript –** is a scripting or programming language that allows you to implement complex features on web pages. It is used to enhance HTML code. It is also an intercepted language. It helps to render Online Ordering and Record Management System of LV's Sweet Homemade Delicacies web pages interactively and dynamically.
10. **Bootstrap** – is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS – and, optionally, JavaScript – based design templates for typography, forms, buttons,

navigation, and other interface components of the develop system. It is used to design the interface of the Online Ordering and Record Management System of LV's Sweet Homemade Delicacies.

11. **JQuery** – is a script library that allows web researchers to add extra functionality to their websites. It can also work with scripting languages such as PHP and ASP, to access data from the database develop.

Environment and Participants

The study was conducted at LV's Sweet Homemade Delicacies at Poblacion, Dagohoy, Bohol. The business started operating from the year 2018 up through the present. The business is operating in the home of the client with no physical store as the business works in Facebook. The owner's residence is located 1 kilometer from Dagohoy Public Market.

The client of this study was Mrs. Elvie Morica, the business owner of LV's Sweet Homemade Delicacies. In order to gather the exact data needed in the study, the developers personally interviewed the business owner to know the current processes, problems and needs to be addressed by the online ordering and record management system.

Data Collection

The developers asked permission from the owner of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol to conduct a study in on her business. Researchers conducted a personal interview, document review and observation. The observation was conducted on the existing operation and file

management. In the document review, hard files were evaluated, including the different forms used in the recording of customer order and product information, as well as the sales of products. The business documents such as the order slip and ordering of products were reviewed with regards to the procedures and processes of the existing operations, which is needed for the development of Online Ordering and Record Management System of LV's Sweets Homemade Delicacies.

In the web usability, a questionnaire developed by MIT information services and technology was used as an instrument to determine the perception of the target users as to system acceptability. In web usability, the operation and features of the system were presented to the target clients.

Testing and evaluation were performed to determine the general acceptability of the system. Performance evaluation of the system was expressed in terms of web usability.

In the web usability, operation, and features, the system was presented to all possible users. There were thirteen (13) respondent who answered the system and web usability testing. The 13 respondents were the business owner, an IT expert and the customers of the LV's Sweet Homemade Delicacies. After the presentation, the clients were allowed to do hands-on activities with the system. After the orientation and hands-on activities, a web usability questionnaire was provided to the respondents to assess the level of system and web acceptability.

The respondents were given enough time to rate the number of items in the adapted questionnaire. The table 1 below shows the Summary of respondent in the System and Web Usability.

Table 1

Summary of respondent in the System and Web Usability

N = 13

Respondents	No. of Respondents
Web Users:	
Owner	1
IT Expert	1
Customer	11

Table 2 in the next page shows the guide for the interpretation of the results in web usability.

Table 2

Interpretative Guide of the Web Usability

Weight	Range	Description	Interpretation
5	4.3 – 5.0	Excellent	The respondents find the application to be excellent with regards to web usability.
4	3.5 – 4.2	Very Good	The respondents find the application to be very good, with minor inconsistencies and aesthetics.
3	2.7 – 3.4	Good	The respondents find the application to be good with non-critical errors causing confusion.
2	1.9 – 2.6	Fair	The respondents find the application to be fair, having serious problems that need high priority fix.
1	1.0 – 1.8	Poor	The respondents find the application to be poor with severe problem.

To evaluate/assess the system acceptability level, the researchers computed the average weighted mean score using the following formula.

$$WMS = \frac{1f1 + 2f2 + 3f3 + 4f4 + 5f5}{N}$$

Where

WMS = Weighted Mean Score

f_1 = frequency of respondents given a rate of 1

f_2 = frequency of respondents given a rate of 2

f_3 = frequency of respondents given a rate of 3

f_4 = frequency of respondents given a rate of 4

f_5 = frequency of respondents given a rate of 5

N = total number of respondents

1, 2…5= constant (rating to the service provided)

OPERATIONAL DEFINITION OF TERMS

To have a better understanding of the study, the following terms were operationally defined:

Admin Login. It is the function that provides privilege and security for the Administrator in logging - on the system. It also supports the system administration tools for system maintenance and system configuration. This is where the admin inputs the username and password.

Admin Management. This module includes ordering management, adding user, feature and services of the business, comments, adding products and inventory. This is where the admin can manage the entire system.

Customer. The person who will order the products.

Owner. The owner of LV's Sweets Homemade Delights which manages all the operation of the business.

Dashboard. Dashboard displays the order details of the customers.

Ordering. Ordering let the customers to choose what they want to order. This includes the date order and expected date of delivery. It enables the customer to select the products and personal details to make an official order.

Order Details. This is where the details of order will be displayed.

Personal Details. Customer personal information in ordering.

Chapter II

PRESENTATION OF FINDINGS, ANALYSIS AND INTERPRETATION OF DATA

Existing Operations and Processes

The Ordering and Record Management of LV's Sweet Homemade Delicacies is still using the manual process. Products are classified as daily products, one which is available daily and good until supplies last and another made to order products. Recording of available products and accumulated sales uses the traditional record book. Preordering of products uses a notebook to log all orders and schedule of delivery. Due to the recent pandemic that took place, the owner had to innovate means to sell. Online selling using social media was utilized. These were the following processes that took place in ordering and record management of LV's Sweet Homemade Delicacies.

A. Recording and posting online products

The owner has a menu prepared for customers. Due to pandemic, posting of pictures the products that can be avail was done thru a social media up application. Each product has corresponding prices under each picture.

B. Inquiry Process

Customers browsed the owner's social media profile where products are posted for customer viewing. Clients sends query as to the availability of products and packages offered. Since the owner directly manage the social account, respond to query was done without any reference. Basic information as to prices, and packages inclusion have been posted directly under each photo posted.

For packages offered, the owner refers to the order notebook to check if the package can still be avail.

C. Ordering of Products

When a customer orders product, he/she can send a message with information such as name, orders (name of product) quantity by using a social media application. The owner acknowledges this order and asks for further information such as pick-up date and time. Daily orders are written in a piece of paper and packages are written in the order notebook which serves as reference.

D. Cancellation of Orders

If the customer wants to cancel the order, they will contact the owner four days before canceling his/her order through call/text or in Facebook messenger. Cancellation of order is only allowed when food is not ready. For food package cancellation, the owner manually cancels the orders made by the customer in the order notebook.

E. Payment of order product

In purchasing the products, the costumer will choose from the posted product on Facebook or products that is available and displayed on their store. Due payment will be computed and details of delivery will be asked. For cash on delivery mode, the owner will give the delivery details to the rider and once back from the delivery will turn over the sales and the owner will record in the sales notebook. G-cash and cash payment for pick up orders will be recorded in the sales notebook by writing the amount of sales transaction.

F. Generation of Report

Accumulated sales written in the notebook will be summated and be reflected as sales of the day.

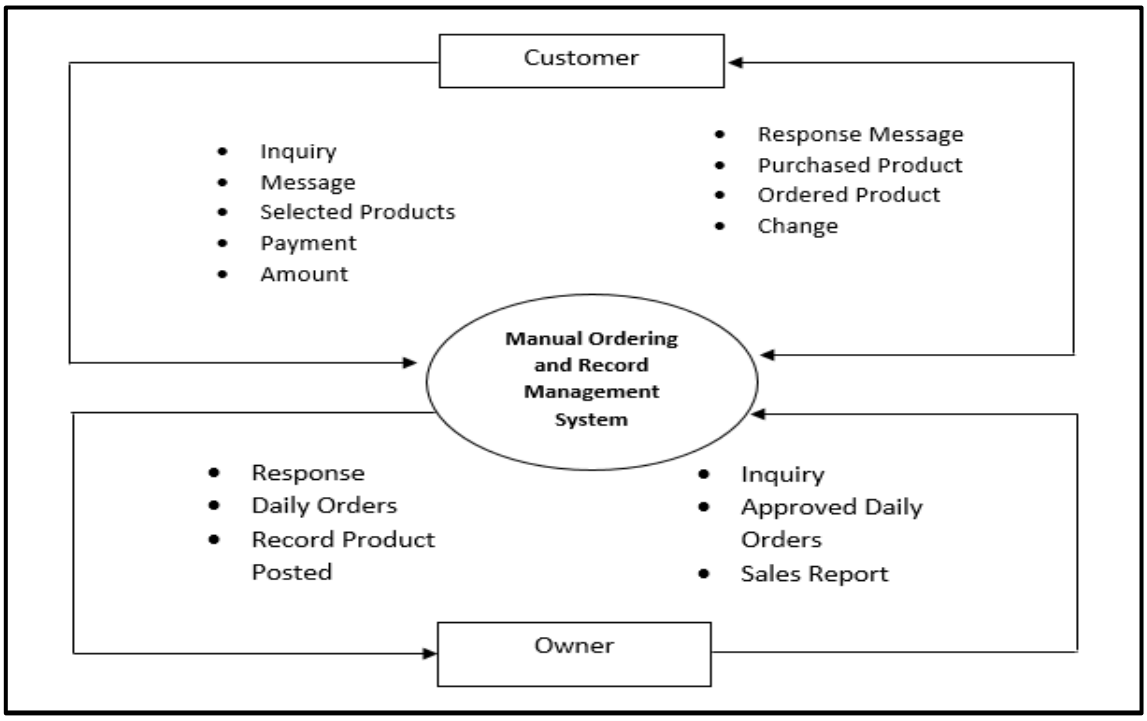


Figure 4. Contextual Diagram

Event Specification

Event List:

1. Owner records the orders and posts the products online
2. Customer inquire products
3. Customer orders products
4. Customer cancels product
5. Customer pays ordered product
6. Generate report

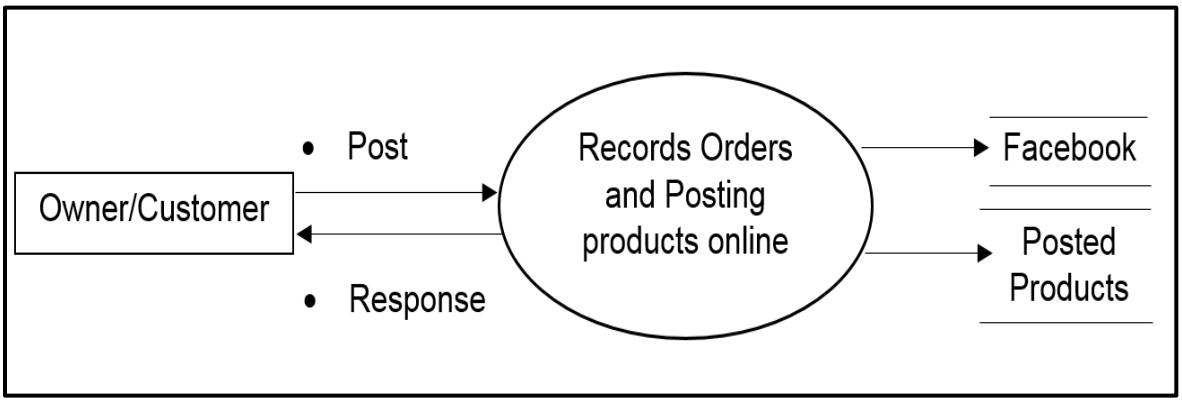


Figure 5 (Event 1). Recording of Orders and Posting products online

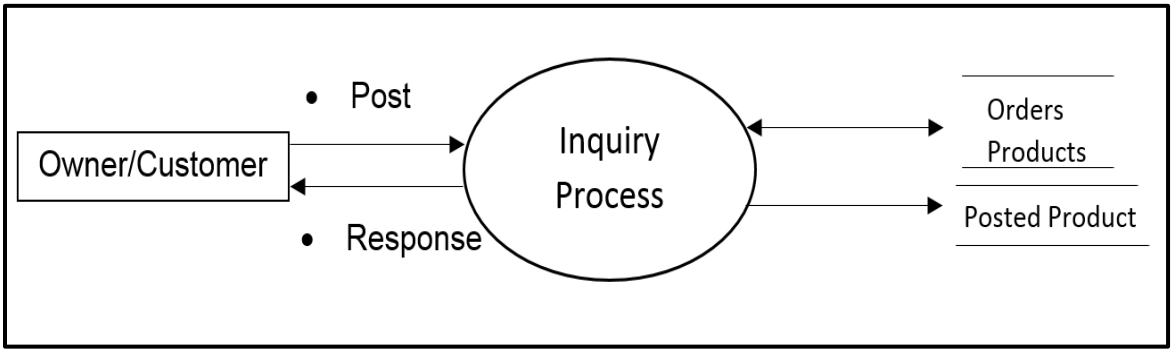


Figure 6. (Event 2). Customer Inquire Product

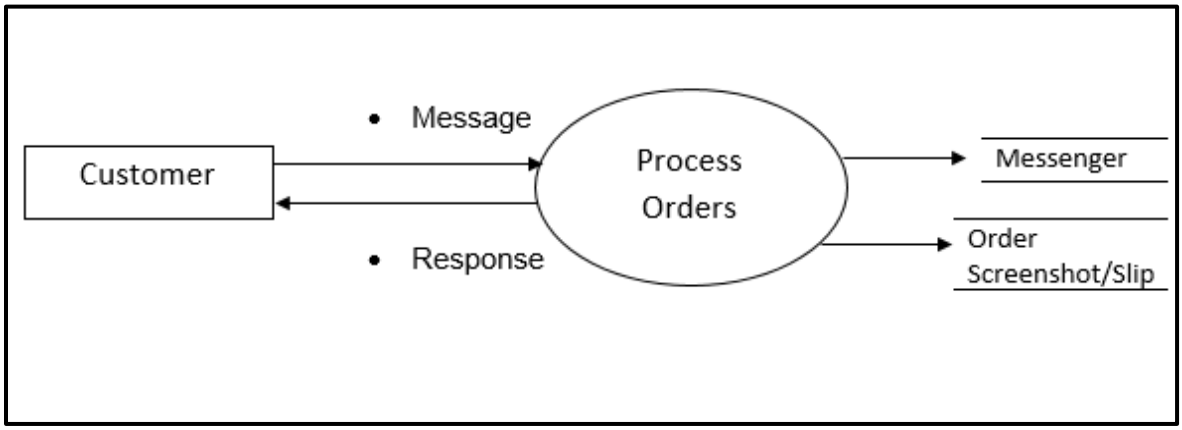


Figure 7 (Event 3). Customer Orders Products

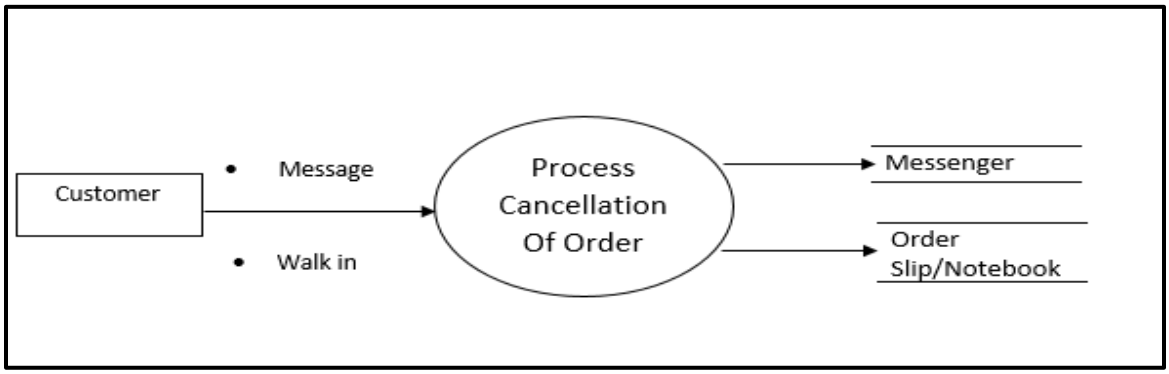


Figure 8 (Event 4). Customer cancels order

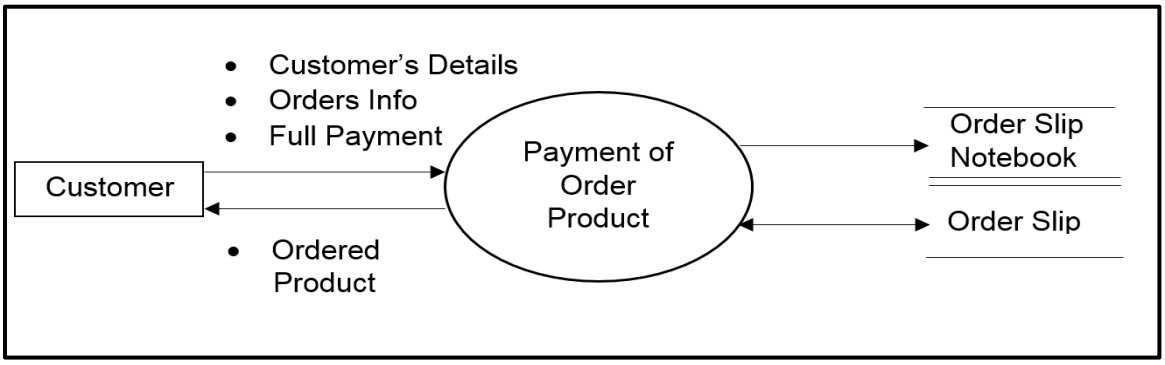


Figure 9 (Event 5). Payment of Order Product

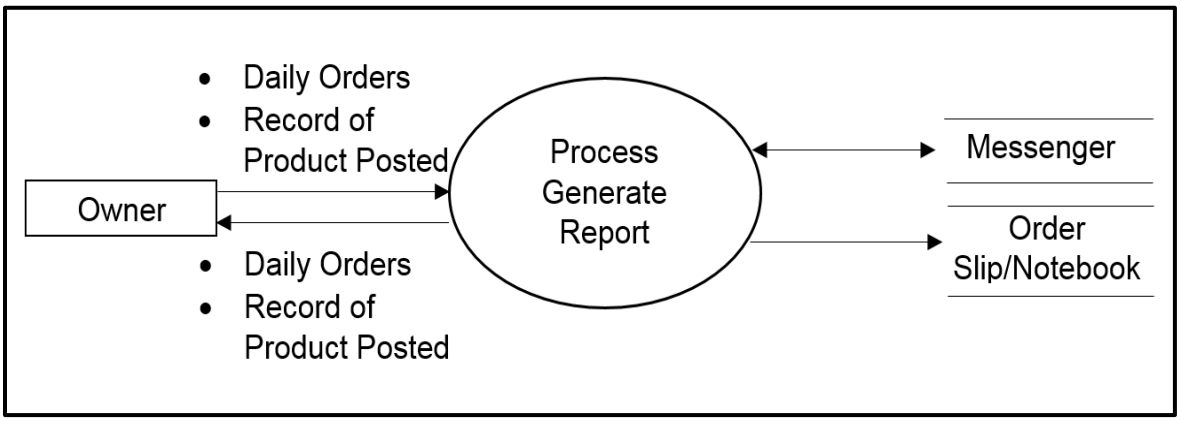


Figure 10 (Event 6). Generate report

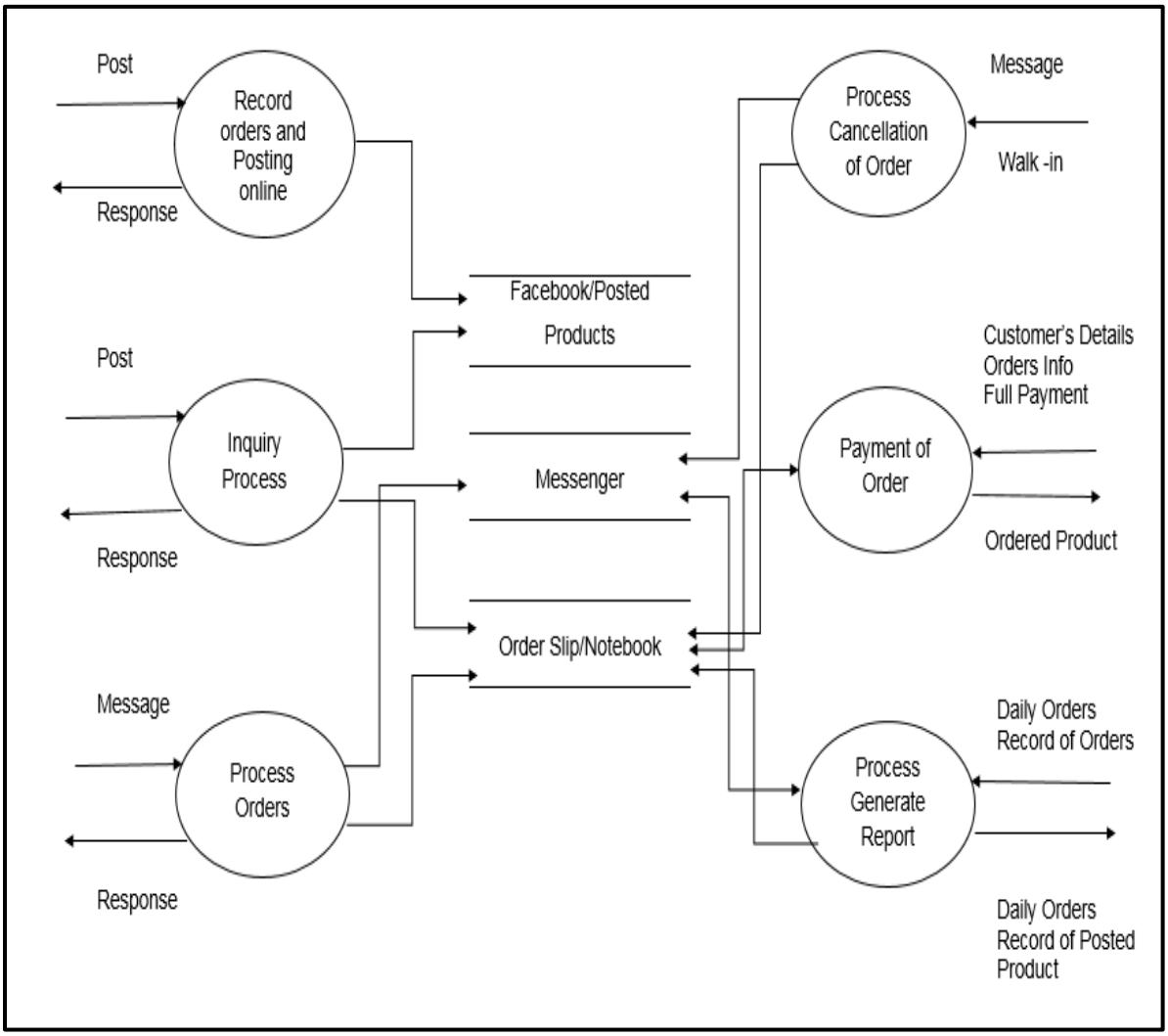


Figure 11. Top Level of the Present System

Needs of the Existing Operation

Based on the identified problems with consideration to the existing operation and processes in the ordering and record management of the business, the developers had observed and identified the following needs:

1. Organized or Systematic recording of records,
2. Organized information of transaction for easy to retrieval,

3. Secured database for records and proper file management with security and ease of access in the retrieval of records,
4. Adopting an online ordering system for fast, accessible, and efficient data management in record management of orders.
5. A platform for promotion, online ordering, and delivery of delicacies.

Online Ordering and Record Management System of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol

With the gathering of data and information, the needs of the present system serve as the basis for the development of the features of the Online Ordering and Record Management System of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol. This study is expected to address the problems encountered in the present system.

A. Administration

Log-in would be adopted by the owner to ensure the security of all the records of orders and products of her business. The overall control of the system is the owner of the business serve as the administrator of the system and the customers who will fill up the information that required on the system. Before accessing the system, the owner must have an account that would require a username and a password for security purposes of the system.

B. Acquisition

In the acquisition, it includes the adding, updating, deleting of food products and viewing the records of the ordered products.

C. Ordering

The customers could order by selecting the desired food products that they want, adding the selected product to their cart and then, check out their orders.

D. Payment

The customer could pay their order via Cash-on-Delivery or GCash.

E. Recording

The owner can view the records of pending, confirmed, cancelled, denied and delivered orders of the customers and the owner can also view records of all the available and made to order products by adding it on the list of food products.

F. Generation of Reports

The owner can generate reports such as daily, monthly or annual sales report.

Use Case Diagram

Use case diagram is a presentation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user in involved. Each use case should provide some observable and valuable result to the actors or other stakeholders of the system.

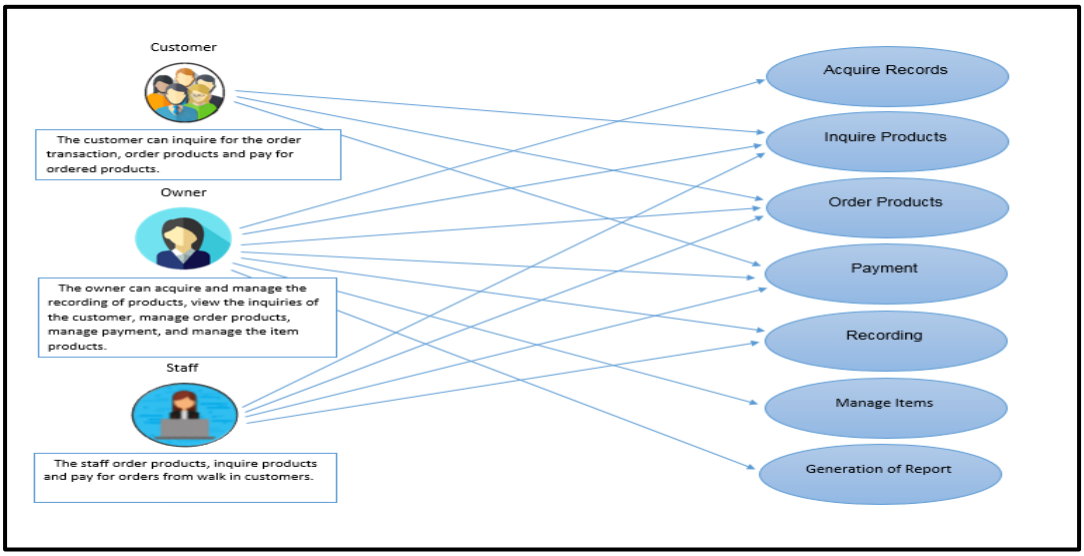


Figure 12. Use Case Diagram – Online Ordering and Record Management System

Use case narrative is describing the use case that could be supplemented with the decision trees or other easily understood notations, it requires both the frame context of the use case and describe the dialogue between users. In every use case narrative there are preconditions, process and post-conditions. Use case 1 is an acquisition for owner, it is a module for product information, order and purchase information, and customer's information wherein it is expected to record product information and customer information as well as viewing of records/transaction. Use case 2 is the inquiry module where the customer can message/contact the owner for the order transactions. For the owner, it is a module for viewing the customer's inquiries about the orders transactions. Use case 3 is for ordering products wherein the customer chooses the product he wants to order, for the staff to manage the orders for walk-in customers and for the owner to manage and view the ordered products. Use case 4 is a payment

module where the customer and staff as the walk-in customer can pay the orders through COD and Gcash and for the owner to manage the payment of the orders. Use case 5 is the recording for the owner and staff, it is the module where the owner and staff can manage all the orders from the customers. Use case 6 is the management for the owner, it is a module for managing product where the owner can add, update, and delete product items to be ordered by the customers.

Use Case Narrative

Use Case 1 Narrative – Acquisition

Acquisition (UC1)	
Scope Level	Online-Ordering and Record Management System User Goal
Goal in Context	Present a menu from which one can select and/or record and/or view product, order, customer information and register.
Primary Actors Stakeholders	Owner and Customer Owner: Wants to add staff and manage the product, order, and customer information. Customer: Wants to enter and manage the customer information and select and/or view product information.
Preconditions Triggers	Enter the required information Owner stores the product and customer information and view orders Customers stores customer information and view product and order information
Success Guarantee	Online Ordering and Record Management System waits for user input

Use Case 2 Narrative – Inquiry

Inquiry (UC2)	
Scope Level	Online-Ordering and Record Management System User Goal
Goal in Context	Present a menu from which one can search available product and view order information.
Primary Actors Stakeholders	Customer and Owner

	Customer: Wants to enter and view the available and made to order products, product information and order information. Owner: Can manage the inquiries from the customers.
Preconditions Triggers	Enter the required information Customer: Select product on the menu then select the product to view product information.
Success Guarantee	Online Ordering and Record Management System: Waits for user input

Use Case 3 Narrative – Ordering

Ordering (UC3)	
Scope Level	Online-Ordering and Record Management System User Goal
Goal in Context	Present a menu from which one can order available product and view order information.
Primary Actors Stakeholders	Owner, Customer and Staff Owner: Wants to enter and view the available and made to order products, product information and order information Customer: Wants to enter and view the available and made to order products, product information and order information. Staff: Select product in the menu then select a product to add to cart then order product and view order information
Preconditions Triggers	Enter the required information Owner: Select product in the menu then select a product to add to cart then order product then view order information. Customer: Select product in the menu then select a product to add to cart then order product then view order information Staff: Select product in the menu then select a product to add to cart then order product then view order information
Success Guarantee	Online Ordering and Record Management System: Waits for user input

Use Case 4 Narrative – Payment

Payment (UC4)	
Scope Level	Online-Ordering and Record Management System User Goal
Goal in Context Primary Actors Stakeholders	Present a menu from which one can manage database records and generate and view report Customer, Owner and Staff

	Owner/ Staff: Wants to give customer payment options (Cash & GCash). Customer: Wants to pay his/ her order with his/ her chosen payment option.
Preconditions Triggers	Enter the required information Owner/ Staff: Provides customers payment option which he has to fulfill upon receiving his order. Customer: Picks his desired payment option and pays the exact amount of payment for his orders.
Success Guarantee	Online Ordering and Record Management System: Waits for user input

Use Case 5 Narrative – Recording

Recording (UC5)	
Scope Level	Online-Ordering and Record Management System User Goal
Goal in Context	Present a menu from which one can manage database records and generate and view report
Primary Actors Stakeholders	Owner and Staff Owner/ Staff: Manage the record of orders.
Preconditions Triggers	Enter the required information Owner/ Staff: Select the orders and view the records of all the orders.
Success Guarantee	Online Ordering and Record Management System: Waits for user input

Use Case 6 Narrative – Management and report

Management and Report (UC6)	
Scope Level	Online-Ordering and Record Management System User Goal
Goal in Context	Present a menu from which one can manage database records and generate and view report
Primary Actors Stakeholders	Owner Owner: Wants to enter the product information, customer information, orders and record and generate and view reports
Preconditions Triggers	Enter the required information Owner: Select the product on the menu then manage product information. Select customer on the menu then manages customer information. Select customer's orders and manage their orders.

	The select report in the menu then generates and view report information.
Success Guarantee	Online Ordering and Record Management System: Waits for user input

Database Design

Database design is an essential activity in the system development cycle. It is a process of defining the architecture components, modules, interfaces, and data for the system to satisfying requirements. Systems design could be seen as the application of systems theory to product development. In order to enhance the present information system, the researchers designed a new system that would be used by the client in each operation.

This would show the design of the developed system, and forms involve in recording and retrieval, inquiry as well as other operation involved. The purpose of the design is to illustrate the framework of the forms, database and procedure involved in the database management.

The design would be typically shown by screen appearance, and program hierarchy presented. The design would also serve as the specification for the working relations between all the parts of a system in terms of their actions, functions and capabilities.

Class Diagram

In software engineering, a class diagram in the Unified Modern Language (UML) is a type of static structure diagram that describes the structures of a

system by showing the systems classes, their attributes, operational methods, and the relationships among objects.

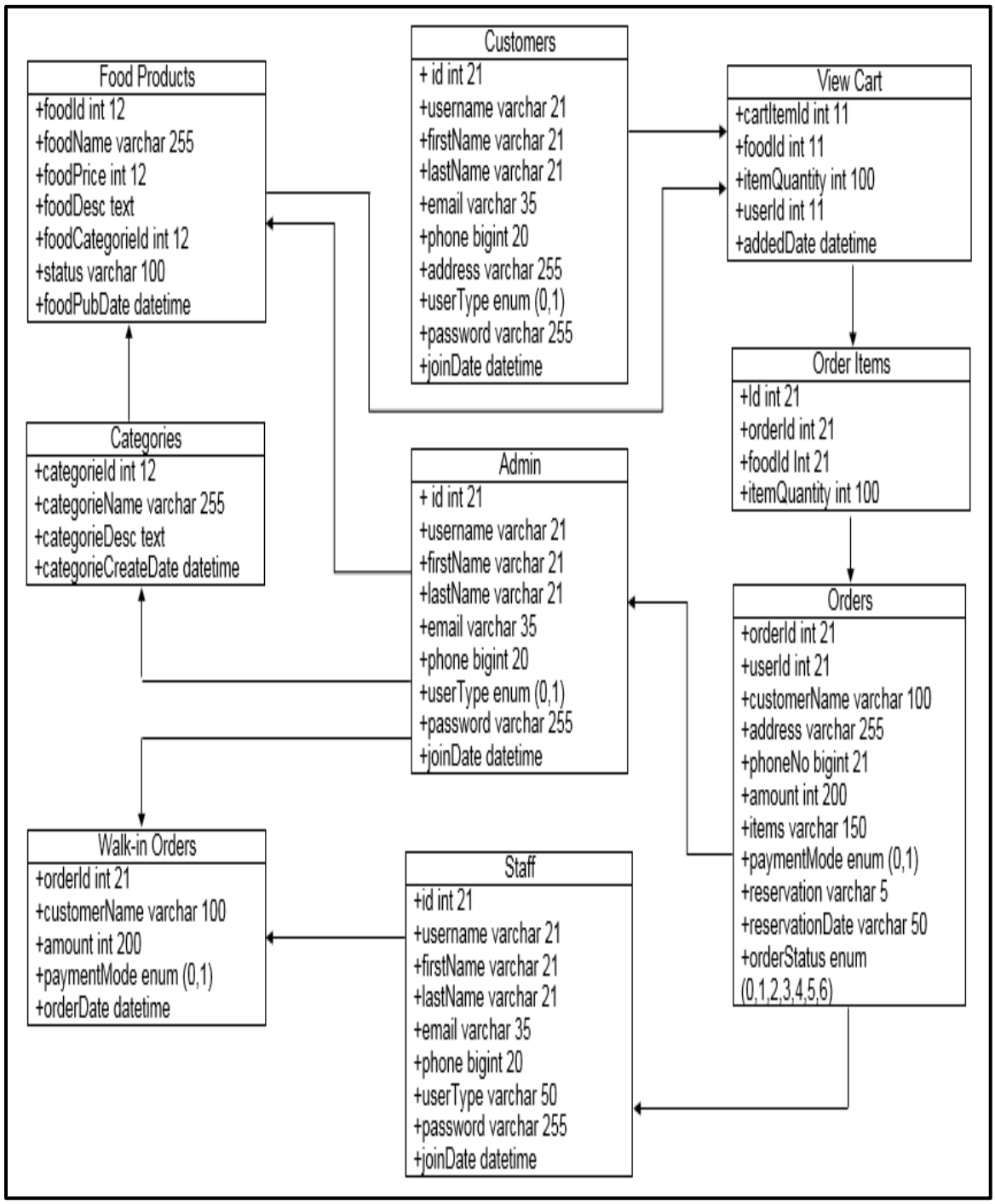


Figure 13. Class Diagram of the System

Data Structure

The following database tables were used in storing the information inputted in the system together with the collection of operations that facilitate searching, sorting, recombination, and of similar activities.

Table 5
Database Structure for Administrator

Field	Field Name	Type	Width	Description
1	id	int	21	I.D of Record Number
2	username	varchar	21	Username of Administrator
3	firstName	varchar	21	First name of Administrator
4	lastName	varchar	21	Last name of Administrator
5	email	varchar	35	Email of Administrator
6	phone	bigint	20	Phone of Administrator
7	userType	enum	0,1	User Type of Administrator
8	Password	varchar	255	Password of Administrator
9	joinDate	datetime		Join Date of Administrator

Table 6
Database Structure for Customers

Field	Field Name	Type	Width	Description
1	id	int	21	I.D of Record Number
2	username	varchar	21	Username of Customer
3	firstName	varchar	21	First name of Customer
4	lastName	varchar	21	Last name of Customer
5	email	varchar	35	Email of Customer
6	phone	bigint	20	Phone of Customer
7	address	varchar	250	Address of Customer
8	userType	enum	0,1	User Type of Customer
9	Password		255	Password of Customer
10	joinDate	datetime		Date of Customer

Table 7
Database Structure for Online Orders

Field	Field Name	Type	Width	Description
1	orderId	int	21	I.D of Record Number
2	userId	int	21	User I.D of Orders
3	address	varchar	255	Address of Orders
4	phoneNo	bigint	21	Phone No. of Orders
5	amount	int	200	Amount of Orders
6	paymentMode	enum	0,1	Payment of Orders
7	status	varchar	150	Status of Orders
8	orderStatus	enum		Order Status or Orders
9	orderDate	datetime		Order Date of Orders

Table 8

Database Structure for Order Items

Field	Field Name	Type	Width	Description
1	id	int	21	I.D of Record Number
2	orderId	int	21	Order I.D of Order Items
3	foodId	int	21	Food I.D for Order Items
4	itemQuantity	int	100	Item Quantity for Orders

Table 9

Database Structure for Food Products

Field	Field Name	Type	Width	Description
1	foodId	int	12	I.D of Record Number
2	foodName	varchar	255	Name of Products
3	foodPrice	int	12	Price of Products
4	foodDesc	text		Description of Products
5	foodCategorieId	int	12	Category I.D of Products
6	foodPubDate			Date of Products

Table 10

Database Structure for Categories

Field	Field Name	Type	Width	Description
1	categorieId	int	12	I.D of Record Number
2	categorieName	varchar	255	Name of Categories
3	categorieDesc	text		Description of Categories
4	categoryCreateDate	datetime		Date of Categories

Table 13

Database Structure for View Cart

Field	Field Name	Type	Width	Description
1	cartItemId	int	11	I.D of Record Number
2	foodId	int	11	I.D for Food Item
3	itemQuantity	int	100	Quantity for Food Item
4	userId	int	11	User ID of the Customer
5	addedDate	datetime		Date

Program Hierarchy

A program hierarchy is a chart which shows the breakdown of a system to its lowest manageable levels. Each module is represented by a box, which contains the module's name. The hierarchy visualizes the relationships between modules. The program hierarchy, according to Wolber (2009), "is used to specify the high-level design, or architecture, of a computer program.

As a design tool, the aid the programmer in dividing and conquering a large software problem, that is, recursively breaking a problem down into parts that is small enough to be understood by a human brain.

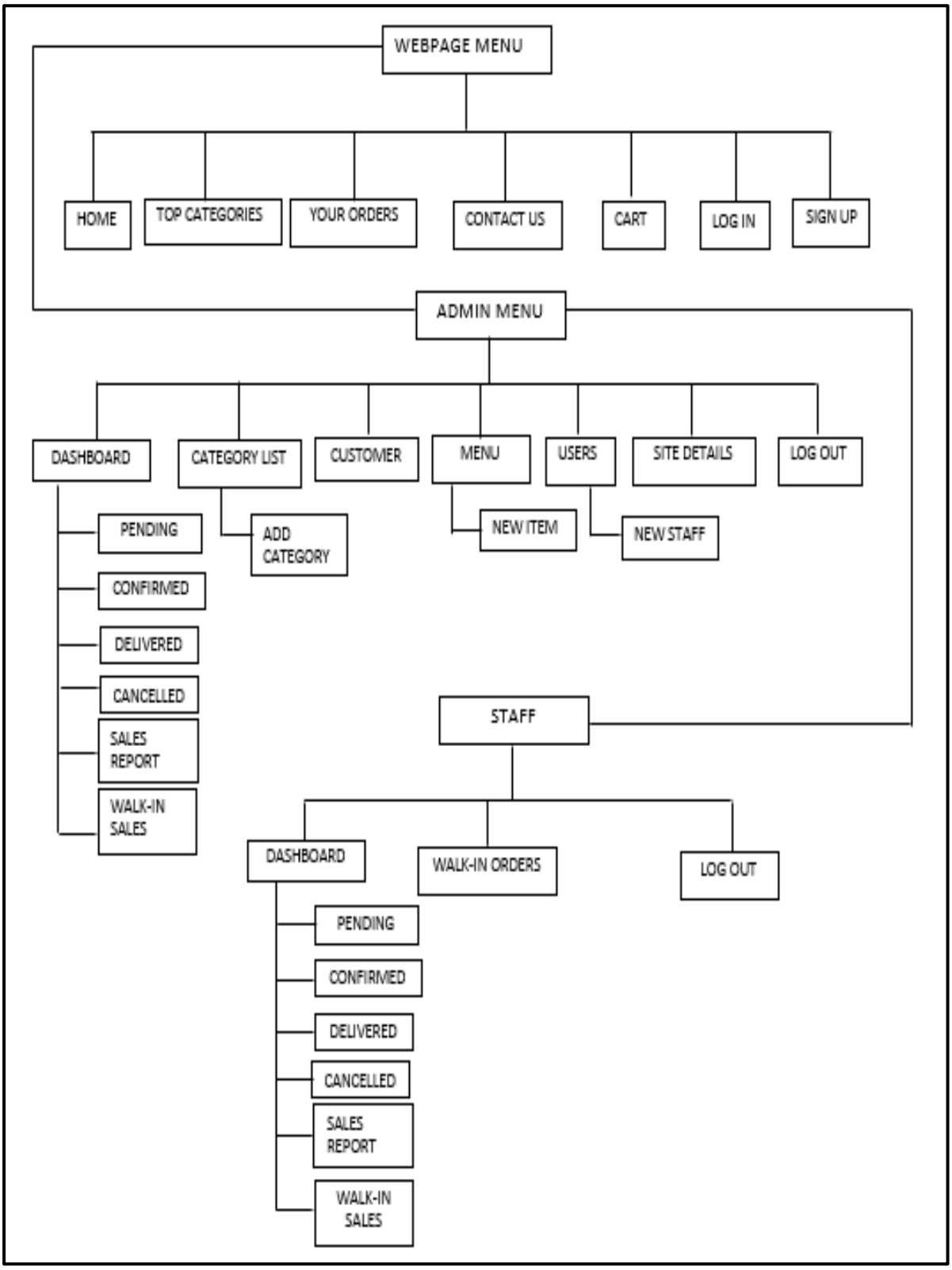


Figure 14. Program Hierarchy of the System

Functional Requirements

A functional requirement defines a function of a software system or its components. A function is described as a set of inputs, behavior and outputs. The functional requirement may be shown as calculations, technical details, data manipulation and processing and other specific functionality that define what a system is supposed to accomplish. The functionalities of a system are as follows:

1. Process Order

FREQ 1: The system should be able to process the order transaction should be able to process the order transaction of the customer through an online mechanism.

FREQ 2: The system should allow the owner and staff to manage the products that have been ordered by the customer.

2. Process Payment

FREQ 3: The system should be able to compute the payment of the customer.

FREQ 4: The system should be able to know the total payment of the customer.

3. Process Cancel Order

FREQ 5: The system should allow the customer to contact the owner of the business to cancel his/her order.

FREQ 6: The system should allow the cancellation of the customer ordered.

FREQ 7: The system should allow the cancellation through message.

4. Reports

FREQ 8: The system should allow the administrator to report the sales of its food products.

5. Recording

FREQ 9: The system should allow the owner to manage the record of orders.

FREQ 10: The system should allow the owner to view the record of orders.

5. Access the system

FREQ 10: Access the system must be password protected.

FREQ 11: Access the system username and password should be matching.

Non-Functional Requirement

A non-functional requirement is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specific behaviours. This should be contrasted with functional requirements that define specific behaviour or functions.

1. The system must have protection from unauthorized users by username and password.
2. The system should be used on any web browser (online).

Test Cases

A test case is a set of conditions or variables under which a tester will determine whether an application or software system is working correctly or not, a detailed procedure that fully tests a feature or an aspect of a feature. It also a set of input values, execution preconditions, expected results and executions,

developed for a particular objective or test condition, such as to exercise a particular program path or to verify compliance with specific requirements.

These are the test case scenario conducted during the acceptance testing. The test plan is to let the users use the system and follow the instructors in each test case to test the proposed system. The system should perform the expected result in each test case in order to be considered successful.

The following are the details of each test case:

User account log-in:

Test Case 1:

Module: Admin account

Instructions:

1. On the URL Add/ admin
2. Input username and password
3. Then click the option “Login” button.

Expected Result:

1. User can access all the modules of the system.

Clean-up: Click the “Logout” button to close module.

Test Case 2:

Module: Staff account.

Instructions:

1. On the URL Add/ staff
2. Input username and password
3. Then click the option “Login” button.

Expected Result:

1. User can access all the modules of the system.

Clean-up: Click the “Logout” button to close module.

Test case 3

Module: Customer account.

Instructions:

1. On the Webpage click Login.
2. Input username and password.
3. Then click the option “Login” button.

Expected Result:

1. User can access their account and can now order products.

Clean – up: Click the “Logout” button to close module.

User account registration

Test Case 1:

Module: Customer Account Registration

Instructions:

1. On the Webpage click the Login.
2. Click Sign-up now.
3. Input Customer Information
4. Click register

Expected Result:

1. Customer is successfully added in the database

Clean-up: Close browser to close the module.

Online Product Management:

Test Case 1.

Module: Adding Category

Instructions:

1. On the main menu, click “Category List”
2. Input food category details.
3. Click the “Create” button.

Expected Result:

1. The newly added food category should be successfully save to the database.

Test Case 2

Module: Adding Product

Instructions:

1. On the main menu, click “Menu”.
2. Input food product details.
3. Click the “Create” button.

Expected Result:

1. The newly added food product should be successfully saved to the database.

Test Case 3

Module: Add to Cart Product

Instructions:

1. Select the product you want to add to cart.

2. Click “Add to Cart” button below the product selected.

3. Input fields for some product details.

4. Click “Add to Cart” button.

Expected Result:

1. The product should be added to the cart successfully.

Order Management:

Test Case 1.

Module: Order Product

Instructions:

1. On the Webpage click “Top Categories” then select a category.

2. Select the product you want to add to cart.

3. Click “Add to Cart” button below the product selected.

4. Input fields for some product details.

5. Click “Add to Cart” button, then click the “Checkout” button.

6. Input fields for the customer information and payment method.

7. Click “Order” button.

Expected Result:

1. The food product you want will be successfully ordered.

Test Case 2.

Module: Payment

Instructions:

1. On the main menu, click the “Confirmed Orders”.

2. Click the “arrow icon” in the column “Payment Status”

3. A modal will appear on the screen.

4. Select “Payment Status” and choose “Cash or Gcash”

5. If Gcash is selected enter “A reference code” then submit.

Report Management:

Test Case 1

Module: Report of Orders

Instructions:

1. On the admin dashboard, Click “View” on the Confirmed Orders.

2. Click the “Order Report” button.

3. Then click the “Print” button.

Expected Result:

1. The Order Report or record will be displayed and can be print out.

Clean-up: Click the “Cancel” button to close the module.

Technical Requirement

A wise selection of hardware, software and people involved in the operation is important. Proper identification of the components is necessary so that the system will be used correctly. Implementation of the system is a necessarily to ensure that is applicable and effective.

Hardware refers to the physical aspects of computers system, telecommunications, and other devices. It includes the following: computer case, motherboard which contains the Central Processing Unit (CPU), Random Access Memory (RAM), basic input-output devices; buses; power supply, USB hard disk, soundcard and networking, keyboard, mouse, printer, monitor, headset and

speakers, and other peripherals. These parts work together, responsible for fast and accurate processing of data and provide space for data storage

Software is simply a list of instructions for the computers they execute. Commonly software is of an algorithm form that translates into being to a sequence of machine instructions. These would accurate, effective and understandable to the users.

Peopleware refers to the users who would operate the computer system. He should have the ability to do the task correctly to ensure effectiveness of the system and generate efficient result in every information processing.

Minimum Hardware Requirements

This covers the minimum hardware specification needed by the system to function as intended and expected. The considerations of these specifications were based on what is available in the market and what most computer package system offers.

Component	Specification
Microprocessor Hard Disk Drive Random Access Memory	Runs in any various platforms that support internet browser. Runs in mobile devices.

Minimum Software Specification

LV's Sweet Homemade Delicacies requires various softwares to function properly. This software was enumerated below with its corresponding

specifications. The specifications, as provided, were based in the specification of the computer units utilized during the development of the system.

Component	Specification
Operating System	Runs in any various platforms that support internet browser.
Internet Browser	Any internet platforms.

Hosting and Implementation

Web hosting is a type of Internet hosting service which allows individual and organizations to make their website accessible via the World Wide Web. Web hosts were companies that provide space on the server owned or leased for use by clients, as well as providing Internet Connectivity, typically in a data center.

In the hosting implementation of the system study, the developers used hosting connectivity from HostGator. The developers have also given an account lvsweets.bisublar.org for the connectivity of the online management system and provide hosting for websites on virtual servers which pull their computing resource from extensive underlying networks of a physical web server.

Economic Performance Evaluation

In any project analysis is one of the most important parts of any system and design project. This includes the calculation of the expected cost that the developed system will need as well as the benefits that it gives. This section determines the proposed budget of resources that will be used.

In the presentation of the economic performance evaluation, the length of time it takes for the new system to generate cost-saving operations to cover its development and expenses and is hereby determined to give them the idea of whether they will proceed with computerization or not.

Table 17

Initial Investment and Annual Operating Cost

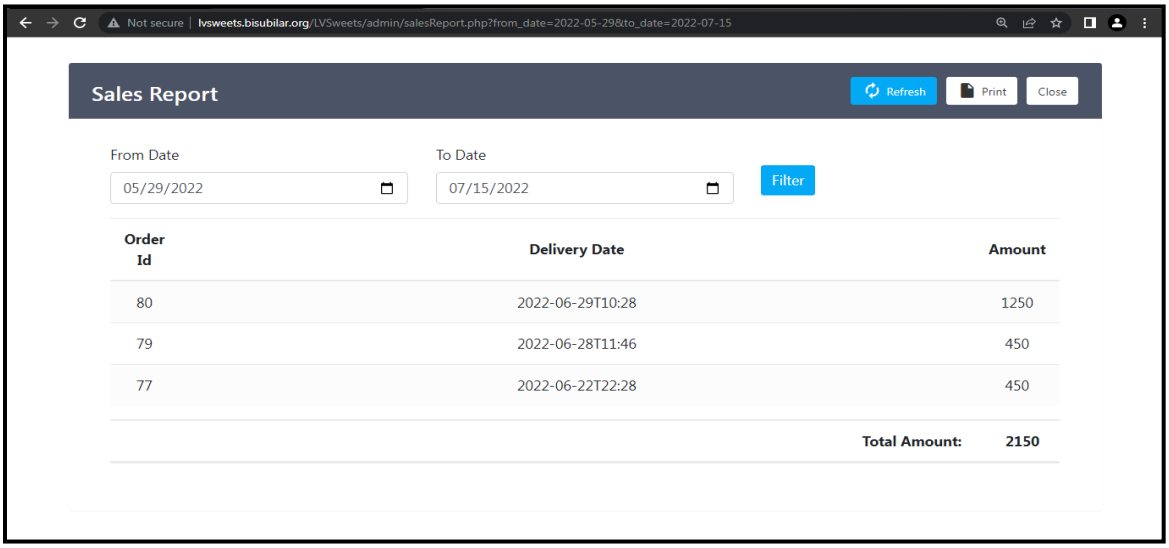
Items	Quantity	Unit	Unit Price	Total
A. Software				
Software Development	1	Subscription	₱15,000.00	₱15,000.00
Software Training	2	Days	₱5,000.00	₱10,000.00
Software Hosting	1	Subscription	₱1,200.00	₱1,200.00
Total Software Cost				**₱26,200.00**
B. Hardware				
Printer	1	Unit	₱12,000.00	₱12,000.00
Router	1	Unit	₱5,000.00	₱5,000.00
Total Hardware Cost				**₱17,000.00**
C. Office Supplies				
Bond Paper	2	Ream	₱160.00	₱320.00
Ballpen	10	Pieces	₱7.00	₱70.00
Notebook	2	Pieces	₱20.00	₱40.00
Printer Ink: Black	1	Piece	₱250.00	₱250.00
Electricity	12	Kwh	₱300.00	₱3,600.00
Internet Connectivity	12	Subscription	₱299.00	₱3,588.00
System Maintenance	1	Days	₱1,000.00	₱1,000.00
Total Office Supply Cost				**₱8, 868.00**
			TOTAL:	**₱52,068.00**

Business Intelligence Integration

Business Intelligence (BI) refers to technologies, tools, and practices for collecting, integrating, analyzing, and presenting large volumes of information to enable better decision making (Cody et al., 2002). Additionally, integrating the data from disparate sources across an organization has unique challenges. It is a set

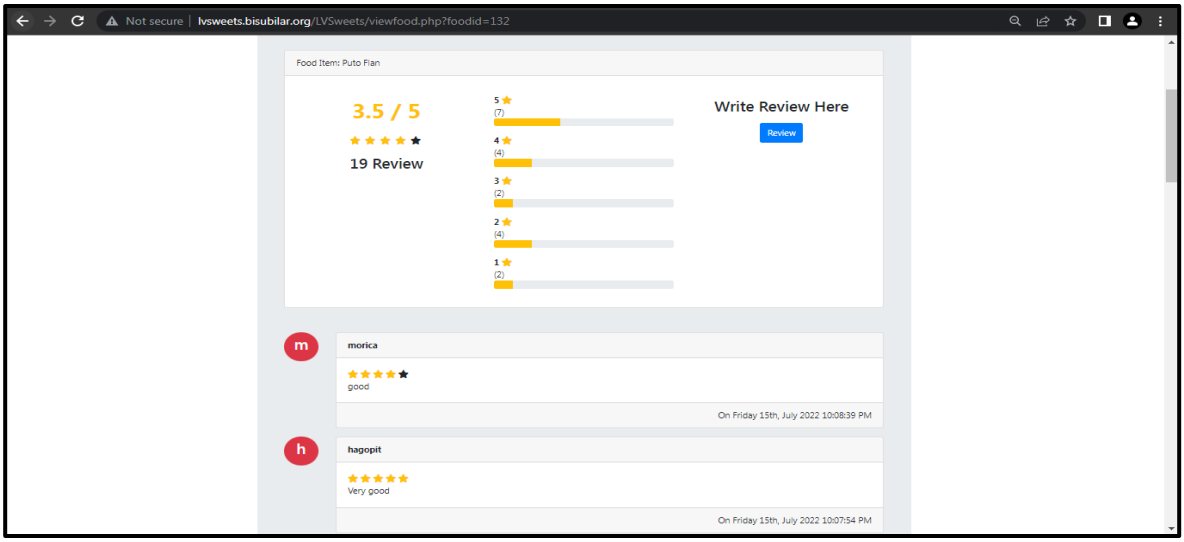
of theories, methodologies, processes architectures, and technologies that transform raw data into meaningful and useful information for the business process.

Preview 1 shows the system view of Sales Report presented in a filterable table.



Preview 1- Sales Report

Preview 2 shows the system view of the Food Rating with comments presented in a bar graph.

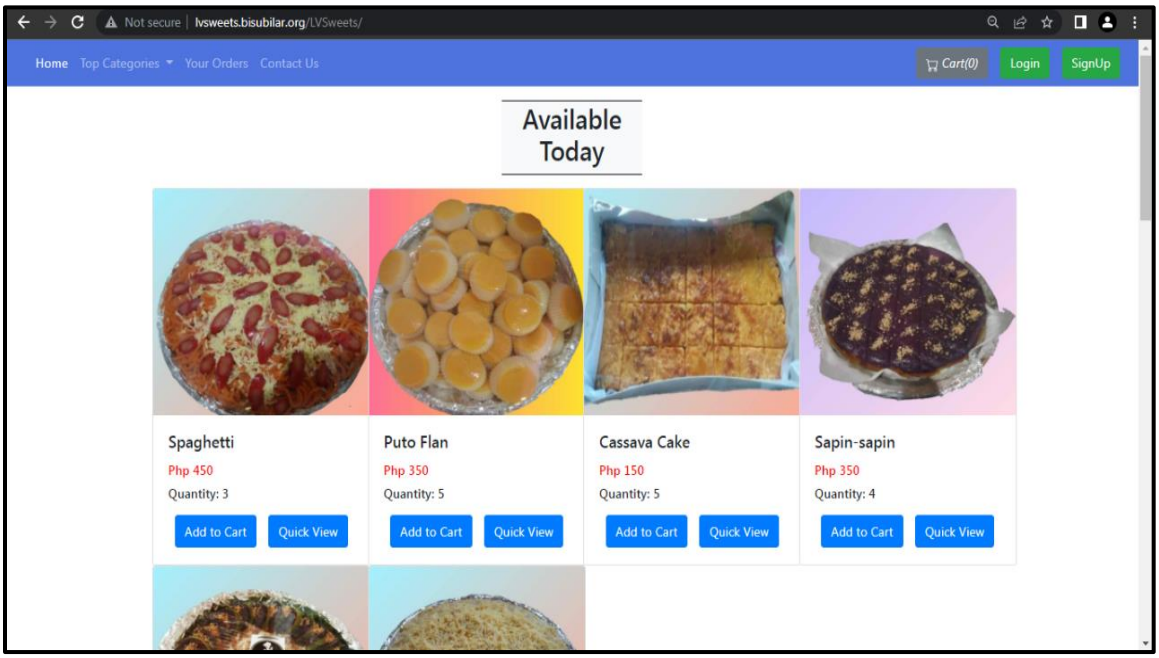


Preview 2- Food Rating

Screen Layouts

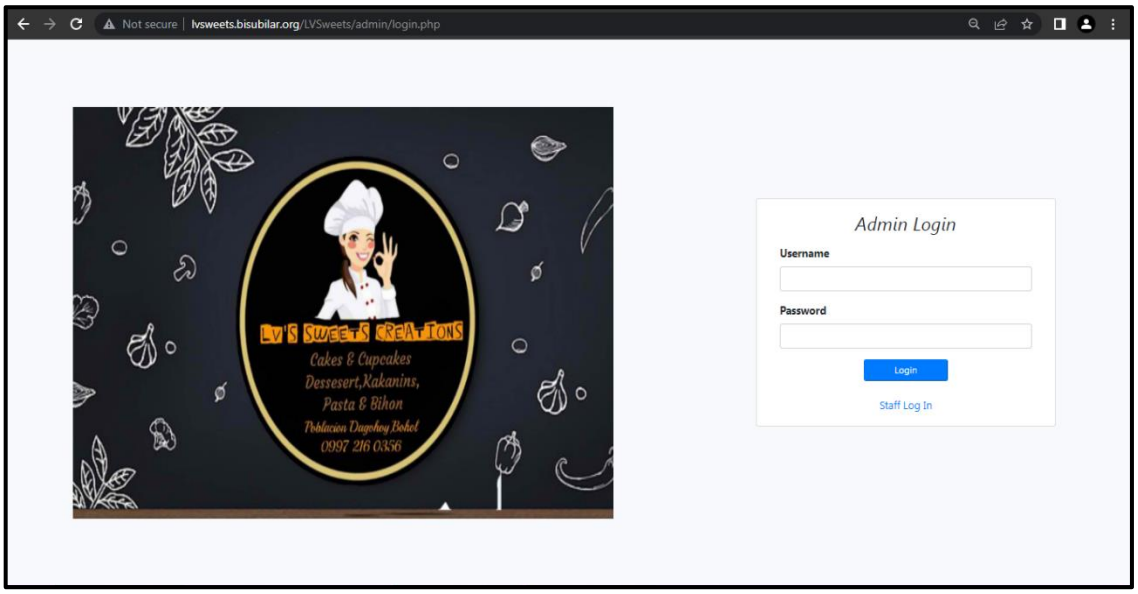
The screen layout is one of the many attributes to provide-user friendliness to the system. It serves as a guide to the users on how to operate the system, and it recognizes the users to the task needed to perform to the system. It should be designed in such a way the browser can navigate the system quickly and easily.

Preview 3 shows the Homepage Menu screen layout. This includes Categories, Your Orders, Contact Us, Search, Cart, Log In and Sign Up and viewing of the products.



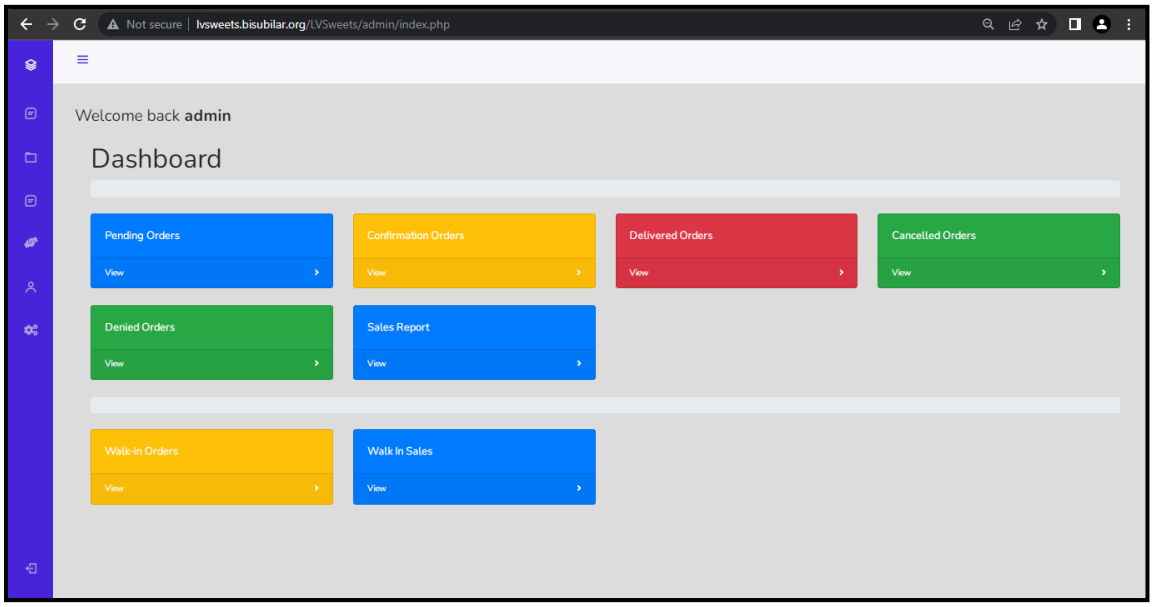
Preview 3 -Homepage Main Menu

Preview 4 shows the Log In screen layout which serves as access to the system for use in which the administrator handles the accessibility.



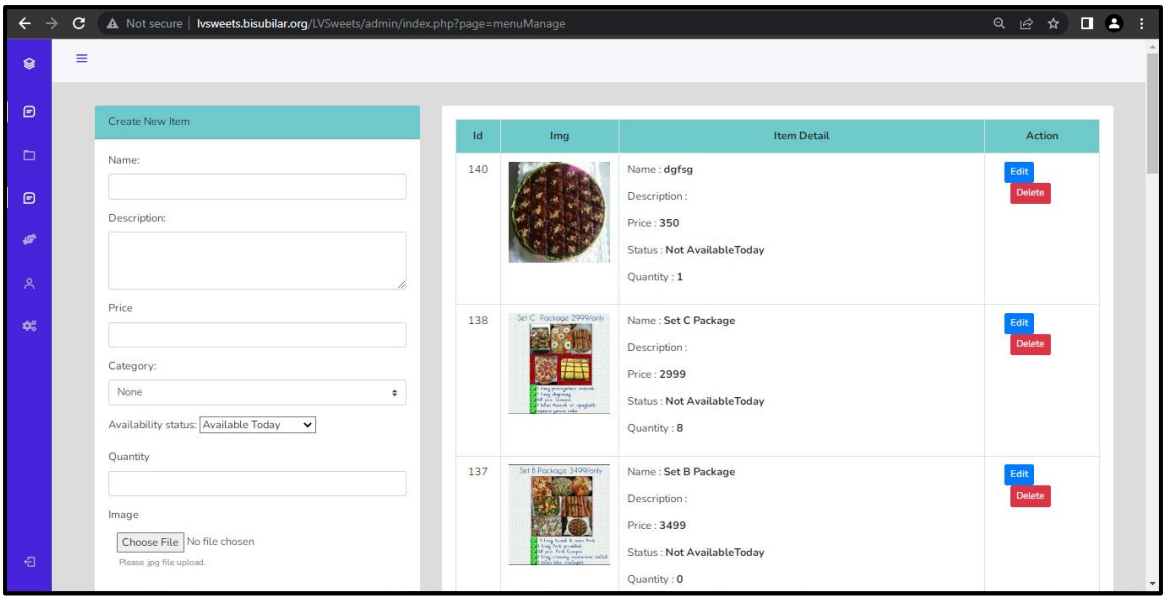
Preview 4 – Log-In User

Preview 5 shows the Main Menu screen layout that holds the menu of the system. This includes the Register of Products, Order of Products and Register of Employee.



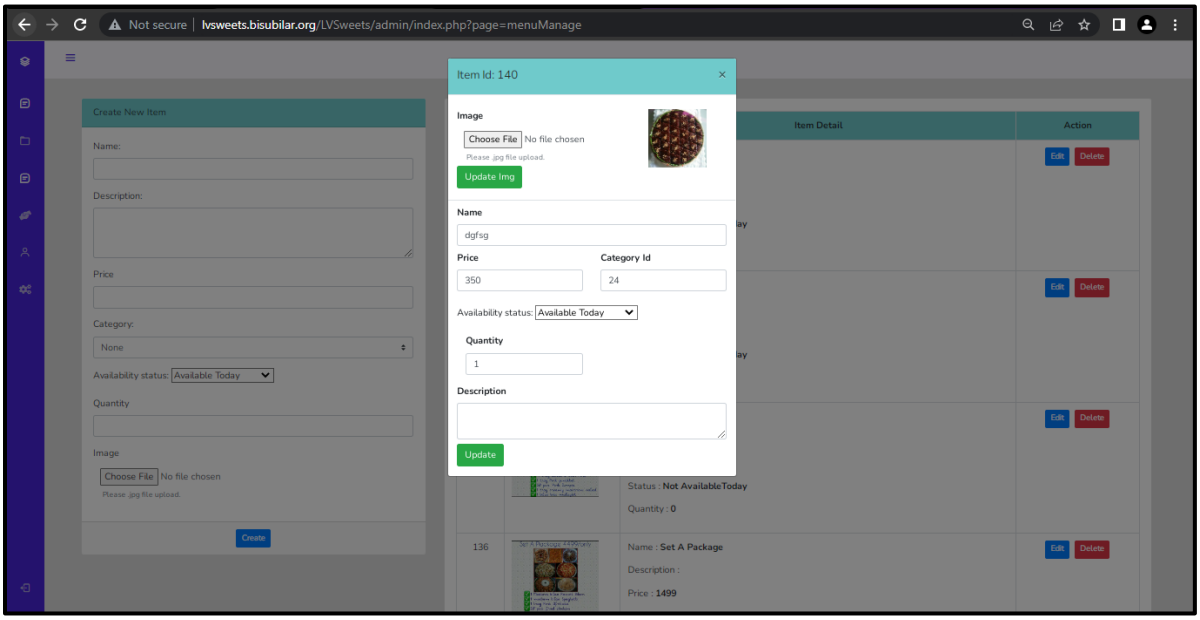
Preview 5 – Admin Main Menu

Preview 6 shows Add Products screen layout where it displays the information of the product.



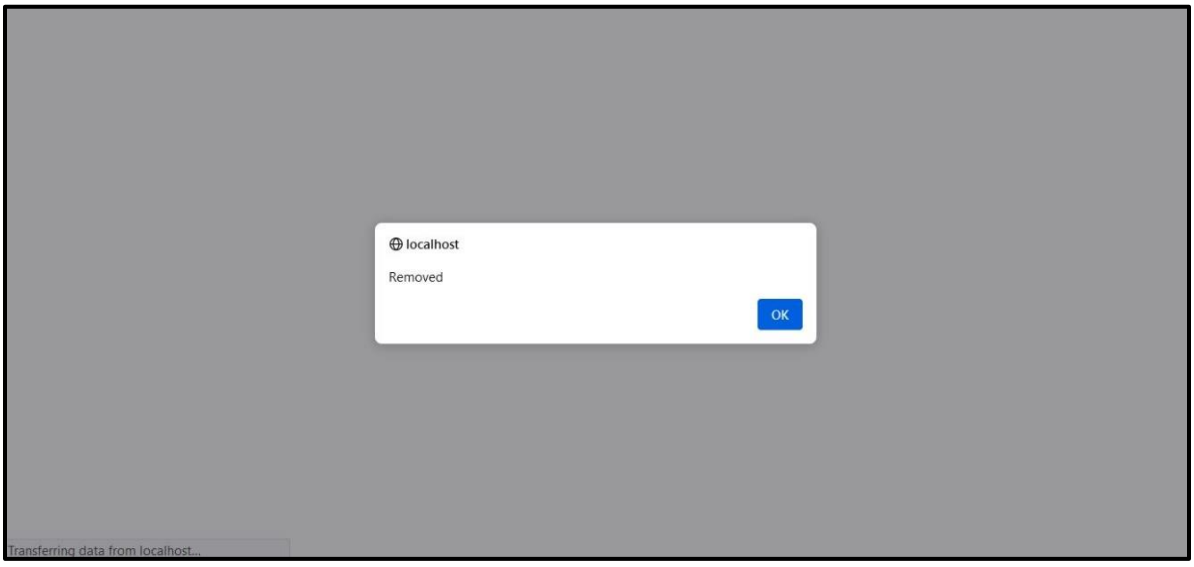
Preview 6 - Add Products

Preview 7 shows the Update of Products screen layout where it corrects some field in the product information.



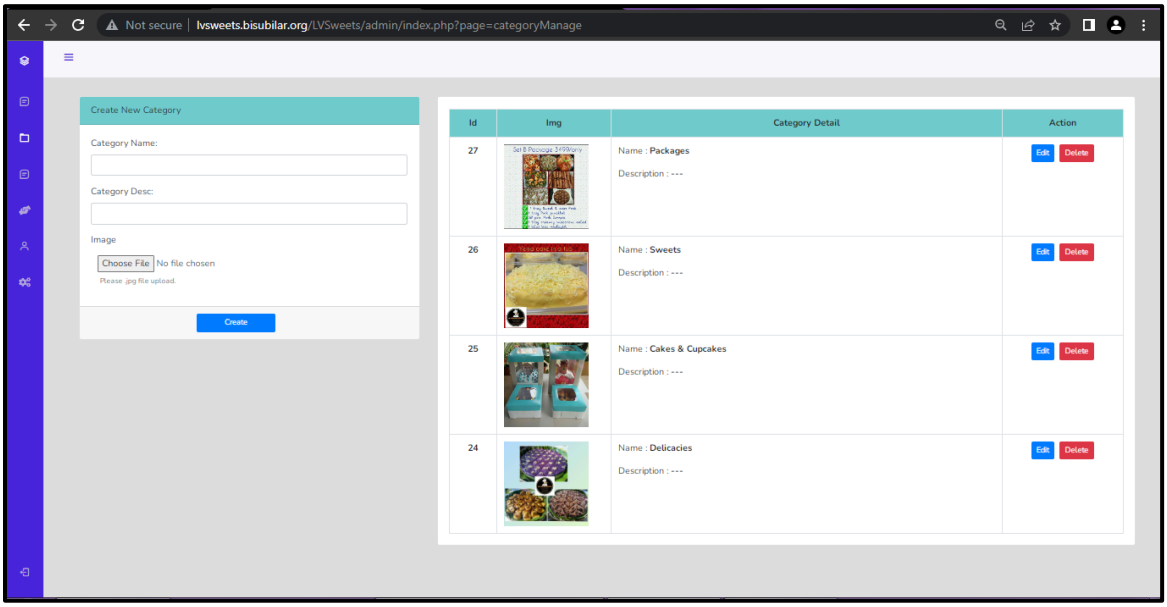
Preview 7 - Update Product

Preview 8 shows the Removing of Products screen layout where it removes registered product.



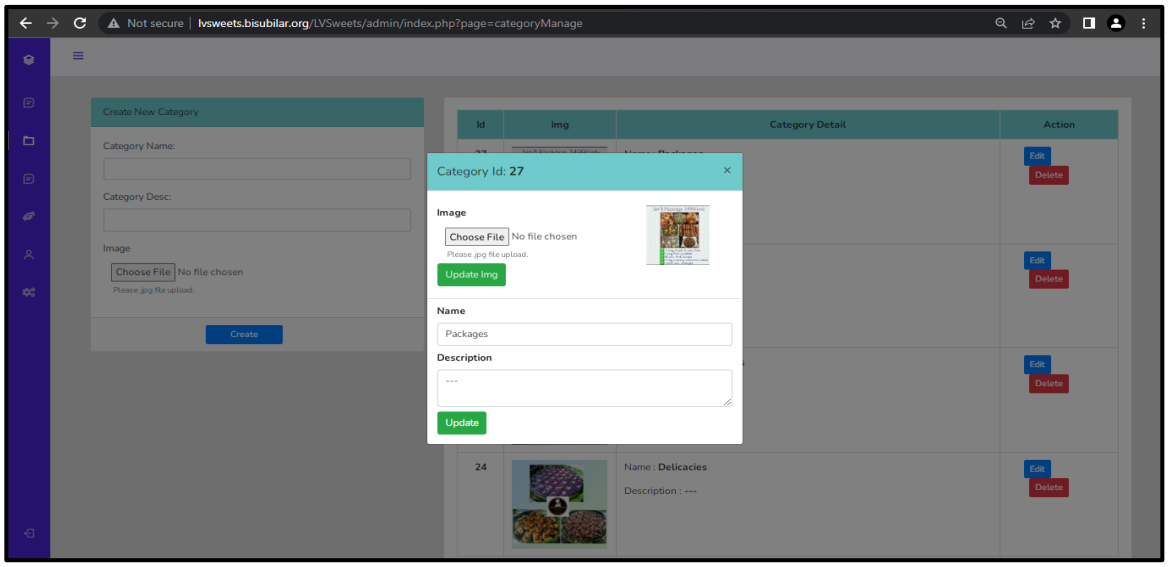
Preview 8 - Remove Products

Preview 9 shows the Add Category screen layout where it input the category information.



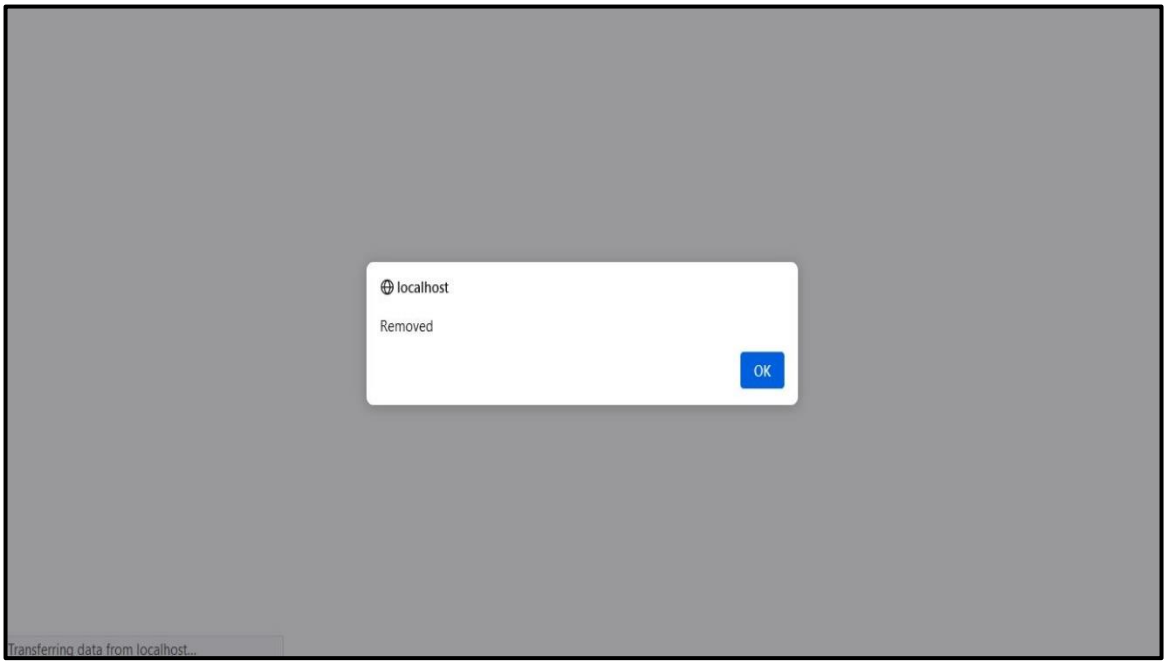
Preview 9 - Add Category

Preview 10 shows the Update Category screen layout where it corrects the category information.



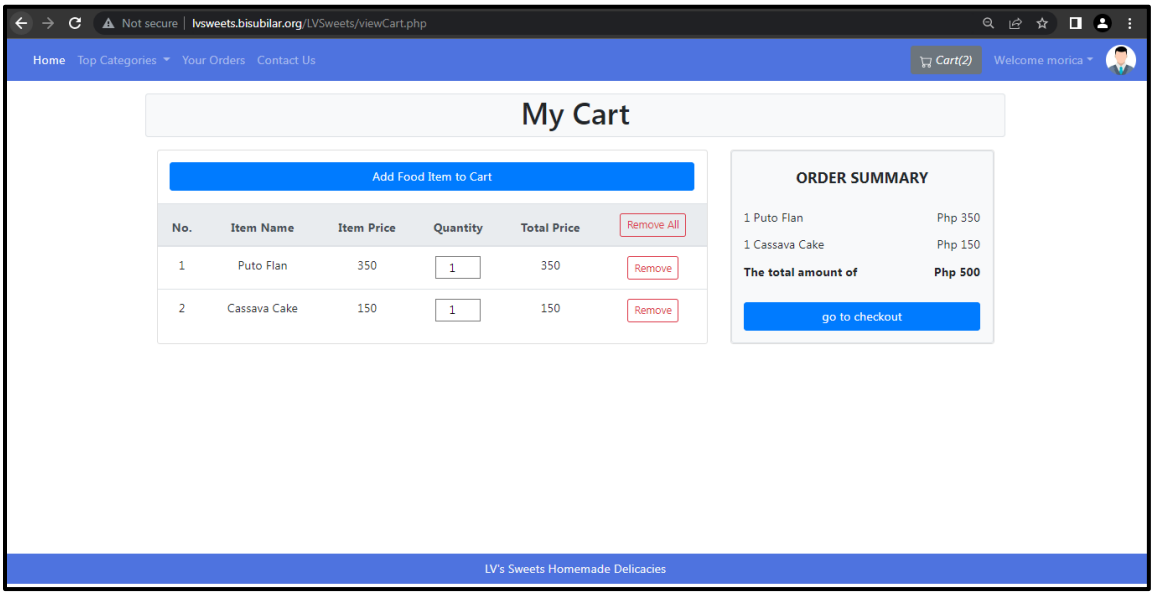
Preview 10 - Update Category

Preview 11 shows the Remove Category screen layout where it removes a registered category.



Preview 11 - Remove Category

Preview 12 shows the Add to Cart screen layout where you can the product to cart for purchase.



Preview 12 – Add to Cart

Testing and Evaluation

Testing and evaluation were performed to determine the functionality of the system particularly on the provision of expected output, time/period, of information processing, the volume of information handled, and the proper response of user inputs. This is also the process of judging the performance of the system in general. In this study, web usability was evaluated to determine its technical performance as perceived by the target users. The developers conducted their web usability test last May 30, 2022 at LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol. The respondent where the IT expert, owner and the customers. The testing was done smoothly, and the entire process was discussed

very well. The testing and evaluation lasted for 3 hours during the demonstration and hands-on activity from 8:30 to 11:30 in the morning.

Web Usability

To assess the acceptability of the online system, web usability testing was performed using the web usability questionnaire adopted from Massachusetts Institute of Technology (MIT, 1995). Based on the results of the testing, the respondent gave an excellent rating with a mean value of 4.5. This result indicates that the application is very well relative to the web usability standard. This further means the application has control, good language and comprehensive content with provisions for online help and user guides, very consistent in the use of terminologies, good communication relative to errors on the operation or use, has good architecture visual clarity.

Table 18

Web Usability Assessment Result

Web Usability Criteria	Weighted Mean	Interpretation
I. Navigation		
1.1 Current location within site in shown clearly	4.3	Excellent
1.2 Link to the site's main page is clearly identified	4.3 4.4	Excellent Excellent
1.3 Major/important parts of the site are directly accessible from the main page	4.3	Excellent
1.4 Easy to use Search function is provided as needed	4.4	Excellent
1.5 Site accommodates novice to expert users		
Average	4.3	Excellent
II. Functionality		

2.1 Functions are clearly labeled	4.2	Very Good
2.2 Essential functions are available without leaving the site	4.2	Very Good
2.3 Plugins are used if they add value only	4	Very Good
Average	4.1	Very Good
III. User Control		
3.1 Site reflects the user's workflow	4.3	Excellent
3.2 User can cancel any operation	4.4	Excellent
3.3 Clear exit point is provided on every page	4.3	Excellent
3.4 Per page loads moderately to accommodate slow connection	4.2	Very Good
3.5 Currently used browser is supported	4.5	Excellent
Average	4.3	Excellent
IV. Language and Content		
4.1 Important information and task are given prominence	4.3	Excellent
4.2 Information of low relevance are rarely used information is not included	4	Very Good
4.3 Related information or tasks are a group on the same page or menu or in the same area within the group	4.1	Very Good
4.4 Language is simple, without jargon	4.6	Excellent
4.5 Paragraph is brief	4.6	Excellent
4.6 Link are concise, expressive, and visible not buried in Text	4.4	Excellent
4.7 Terms are defined	4.6	Excellent
Average	4.3	Excellent
V. Online Help and User Guides		
5.1 It is always clear what is happening on the site – visual hints, etc.	4.6	Excellent
5.2 User can receive email feedback if necessary	4.5 4.7	Excellent Excellent
5.3 Confirmation screen is provided to form submittal	4.4	Excellent
5.4 All system feedback is timely	3.8	Very Good
5.5 Users are informed if a plugin or browser version is required	4	Very Good
5.6 Each page includes a "last updated" date		
Average	4.3	Excellent
VI. Consistency		

6.1 The same word or phrase is used consistently to describe and item	4.5 .	Excellent
6.2 The link reflects the title of the page to which it refers	4.4	Excellent
6.3 A browser page title is meaningful and reflects main page heading	4.6	Excellent
Average	4.5	Excellent
VII. Error Prevention and Correction		
7.1 User can rely on recognition, not memory, for successful use of the site	3.9	Very Good
7.2 Site tolerates a reasonable variety of user actions	4.2	Very Good
7.3 Site provides concise instructions for the user actions	4	Very Good
7.4 Error message is visible, not hidden	4.5	Excellent
7.5 Error message is in plain language	4.5	Excellent
7.6 Error message describe the action to remedy the problems	4.4	Excellent
Average	4.2	Very Good
VIII. Architectural and Visual Clarify		
8.1 Site is organized from the user's view	4.1	Very Good
8.2 Site is easily scanned able for organization and meaning	4.3	Excellent
8.3 Site design and layout is redundant only when required for the user productivity	4.4	Excellent
8.4 While space is sufficient, the page is not too dense	4.6	Excellent
8.5 Unnecessary animation is avoided	4.6	Excellent
8.6 Colors used for visited and unvisited links are easily seen and understood	4.7	Excellent
8.7 Bold and italic text is used sparingly	4.9	Excellent
Total Average Weighted Mean	4.5	Excellent

Chapter III

SUMMARY OF FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

Summary of Findings

Based on the study of the present system, the developers find out that the use of manual operations of keeping records and ordering products has encountered limitations in the customer's reached and scope, lapses in monitoring of customer's orders, and a lack of generating effective transaction reports. The identified issues had led the developers to come up with a solution to improve the ordering process and security in data information to prevent loss or misplacement of records, ease of access, and retrieval of records. As such, there is a need for online ordering and recording of products for effective business strategy.

The developed Online Ordering and Record Management System fit the management need of the institution. Based on the needs identified, the Online Ordering and Record Management of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol was developed with the following modules: acquisition, ordering, payment, recording, administration and generation of reports using an online mechanism. The developed system was tested and evaluated using the web usability questionnaire adopted from MIT information services and technology to the target respondent. Based on the result of the evaluation, the respondents rated 4.5 or "Excellent" rating to the system indicating the achievements of individuals expectations particularly on the features such as ease of use, visual clarity, language and its application, in general.

Conclusions

Based on the gathered information on the operation of the Online Ordering and Record Management System of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol, adopting the manual processes may result to related problems which can be resolve through computerization. The evaluation of the existing operation, particularly on data management and transmission, computerization is possible and achievable.

Based on the evaluation in Online Ordering and Record Management System of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol, the usability and features of the developed system met the needs of the client. In addition, putting into consideration the economic performance evaluation, adoption of the developed system is reasonable and justifiable.

Recommendations

After reviewing the findings and conclusion of the study, the following are recommended:

1. The developed Online Ordering and Record Management of LV's Sweet Homemade Delicacies in Poblacion, Dagohoy, Bohol is highly recommended and should be implemented for the individual's expectations on the features. An official launching should likewise be done on the developed Online Ordering and Record Management of LV's Sweet

Homemade Delicacies in Poblacion, Dagohoy, Bohol for the awareness of its availability.

2. Regular system maintenance must be performed to ensure the security of records and the reliability of the system.
3. A domain and web hosting server must be purchased to increase the dynamic features that may incorporate in the system, especially the amount of data storage.

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APPENDICES

Appendix A

Interview Guide Questions

Owner

1. What is the current process involved in the ordering of products in LV's Sweet Homemade Delicacies?
2. What are the problems encountered by the owner of LV's Sweet Homemade Delicacies?
3. How are the transactions being completed?
4. In what ways a customer can order?
5. Who are the persons that are responsible for processing the order?
6. Who are the persons involved in the processes and transactions of the business?
7. What is being asked if a customer orders a food product that the business offers?
8. What are the records involved in the business?
9. How are these records being kept?
10. Where are these records being kept?
11. Are there any promos in ordering a cake?
12. In what way would the owner know when he/she will have to make a new set of food products?
13. What would they do if the customer cancels his/her order?

Letter of Intent

Republic of the Philippines
Bohol Island State University
Bilar Campus
Zamora, Bilar, Bohol

March 31, 2022

ELVIE MORICA
Owner
LV's Sweet Homemade Delights
Poblacion, Dagohoy, Bohol

Ma'am:

Good day!

We, the 4th Year Students of Bachelor of Science in Computer Science of Bohol Island State University Bilar Campus will conduct a System Development project (Thesis) as requirements for graduation for the degree of Bachelor of Science in Computer Science.

In this connection, we would like to ask permission to conduct a system study (thesis) basing on your Reservation System of this establishment as basis for our proposed automation. This study would include interview, observation of transactions and review of documents significant for the study and development of the system. We anticipate to have implementation testing (bench marking) of the system developed as part of usability testing.

We assure you that we shall honor secrecy and privacy to all data and information we shall be handling as we go along with our study. Your approval will be a great help to the success of our study.

We anticipate your favorable response regarding this matter.

Thank you very much and more power!

Respectfully yours,

JOSEPHINE G. MORICA

JESSA M. CASING

ANGEL R. HAGOPIT
Researchers

Noted:

SHEILA G. TABUNO
Subject Instructor

SHEILA G. TABUNO
Thesis Adviser

Recommended by:

SHEILA G. TABUNO
Chairperson, DCoS

Endorsed by:

ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:

ELVIE MORICA
Owner, LV's Sweet Homemade Delights

Letter of Implementation

Republic of the Philippines
Bohol Island State University
Bilar Campus
Zamora, Bilar, Bohol

May 30, 2022

ELVIE MORICA
Owner
LV's Sweet Homemade Delicacies
Poblacion, Dagohoy, Bohol

Ma'am:

Good day!

It is our pleasure to inform you that the system "Online Ordering and Record Management System of LV's Sweets Homemade Delicacies" is now in its final phase. With this, we would like to conduct benchmarking activities as part of the implementation.

It will be conducted on May 30, 2022 at exactly 8:30 AM to 11:30 AM at LV's Sweets Homemade Delicacies, Poblacion, Dagohoy, Bohol. This activity will allow you to assess our developed system and give feedback, as well.

But this time, we would like to express our gratitude for allowing us to conduct our thesis study. We are hoping for future collaborations with you, our dear client.

May the good Lord continually bless you and your business.

Thank you very much and more power!

Respectfully yours,

JOSEPHINE O. MORICA

JESSA M. CASING

ANGEL R. HAGOPIT
Researchers

Noted:

SHEILA G. TABUNO, MSTCS
Subject Instructor

SHEILA G. TABUNO, MSTCS
Thesis Adviser

Recommended by:

SHEILA G. TABUNO, MSTCS
Chairperson, DCoS

Endorsed by:

ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:

ELVIE P. MORICA
Owner, LV's Sweets Homemade Delicacies

Letter of Questionnaire Distribution and Implementation

May 22, 2022

Mrs. Elvie Morica
Owner
LV's Sweet Homemade Delicacies
Poblacion, Dagohoy, Bohol

Dear Ma'am,

Greetings!

It is our pleasure to inform you that the system "Online Ordering and Record Management System" is now in its final phase. With this, we would like to conduct benchmarking activities as part of the implementation.

This will be conducted on May 30, 2022, in your office at any time of your convenience. This activity will allow you to assess our developed system and give feedback, as well.

By this time, we would like to express our gratitude for allowing us to conduct our thesis study. We are hoping for future collaboration with you, our dear client.

May the good Lord continually bless you and your office.
Thank you and more power!

Very truly yours,

SGD. JOSEPHINE O. MORICA
SGD. JESSA M. CASING
SGD. ANGEL R. HAGOPIT
BS in Computer Science Students

Noted by:

SGD. SHEILA G. TABUNO
Thesis Adviser

Recommended by:

SGD. MR. RENANTE S. DIGAMON
Chairperson, DCoS

Endorsed:

SGD. ARLEN B. GUDMALIN
Dean, CTAS

Approved:

SGD. MRS. ELVIE MORICA
Owner

APPENDIX B

Web Usability Questionnaire

Rating Scale

3 – Excellent (no problem)

2 – Very Good (minor inconsistencies, aesthetic issues)

6 – Good (non-critical, cause moderate confusion or irritation)

1 – Fair (a serious problem that needs high priority fix, user can make a significant error)

1 – Poor (with a severe problem)

I. Navigation	**5**	**4**	**3**	**2**	**1**	**N/A**
1.1 Current location within site in shown clearly.						
1.2 Link to the site's main page is clearly identified						
1.3 Major/important parts of the site are directly accessible from the main page						
1.4 Easy to use Search function is provided as needed						
1.5 Site accommodates novice to expert users						
II. Functionality						
2.1 Functions are clearly labeled						
2.2 Essential functions are available without leaving the site						
2.3 Plugins are used if they add value only						
III. User Control						
3.1 Site reflects the user's workflow						
3.2 User can cancel any operation						
3.3 Clear exit point is provided on every page						
3.4 Per page loads moderately to accommodate slow connection						
3.5 Currently used browser is supported						

IV. Language and Content						
4.1 Important information and task are given prominence						
4.2 Information of low relevance are rarely used information is not included						
4.3 Related information or tasks are a group on the same page or menu or in the same area within the group						
4.4 Language is simple, without jargon						
4.5 Paragraph is brief						
4.6 Link are concise, expressive, and visible not buried in Text						
4.7 Terms are defined						
V. Online Help and User Guides						
5.1 It is always clear what is happening on the site – visual hints, etc.						
5.2 User can receive email feedback if necessary						
5.3 Confirmation screen is provided to form submittal						
5.4 All system feedback is timely						
5.5 Users are informed if a plugin or browser version is required						
5.6 Each page includes a “last updated” date						
VI. Consistency						
6.1 The same word or phrase is used consistently to describe and item						
6.2 The link reflects the title of the page to which it refers						
6.3 A browser page title is meaningful and reflects main page heading						
VII. Error Prevention and Correction						
7.1 User can rely on recognition, not memory, for successful use of the site						
7.2 Site tolerates a reasonable variety of user actions						
7.3 Site provides concise instructions for the user actions						
7.4 Error message is visible, not hidden						

7.5 Error message is in plain language						
7.6 Error message describe the action to remedy the problems						
VIII. Architectural and Visual Clarify						
8.1 Site is organized from the user's perspective						
8.2 Site is easily scanned able for organization and meaning						
8.3 Site design and layout is redundant only when required for the user productivity						
8.4 While space is sufficient, the page is not too dense						
8.5 Unnecessary animation is avoided						
8.6 Colors used for visited and unvisited links are easily seen and understood						
8.7 Bold and italic text is used sparingly						

APPENDIX C

User's Manual

Accessing the Website

Steps:

1 Type URL "LVSweets"

Customer Log In

Steps:

1. Click "Log In" menu
2. Don't have an account? SignUp first
3. Input the Information needed
4. Click "Register"
5. Confirmation: "Successfully Registered"
6. If already had an account, input the username and password
7. Click "Log In"
8. Confirmation: "Success! You are logged in"

Admin Log In

Steps:

1. Type URL "LVSweets/admin"
2. Input username and password.
3. Click "LogIn"
9. Confirmation: "Success! You are logged in"

Staff Log In

Steps:

1. Click "Staff LogIn"
2. Input username and password.
3. Click "LogIn"
10. Confirmation: "Success! You are logged in"

Manage Online Products

Add Products

Steps:

1. Click "Menu" sub menu.
2. Input the information needed in registering the product.
3. Click "Add Product".

4. Confirmation: “Success”

Update Products

Steps:

1. Click “Menu” sub menu.
2. Click the “Edit” button.
3. Input the information needed in updating the product.
4. Click “Update Product”.
5. Confirmation: “Update Successfully”

Delete Products

Steps:

1. Click “Menu” sub menu.
2. Click the “Delete Product” button.
3. Confirmation: “Removed”

Add Category

Steps:

1. Click the “Category List” sub menu
2. Input the information needed in the Category form
3. Click “Register Category”
4. Confirmation: “Success”

Update Category

Steps:

1. Click the “Menu List” sub menu
2. Click the “Edit” button
3. Update the information needed in the Category form
4. Click “Update Category”
5. Confirmation: “Update Successfully”

Delete Category

Steps:

1. Click the “Menu List” sub menu
2. Click the “Delete” button
3. Confirmation: “Removed”

Add to Cart Products

Steps:

1. Click “Top Categories” sub menu
2. Select a category, then choose a product
3. Click “Add to Cart” button
4. The product selected will be redirecting to the Cart

List of Orders

Pending Orders

Steps:

1. Click “View” in the Pending sub menu
2. View all the records of pending orders
3. Click “Print” button

Confirmed Orders

Steps:

1. Click “View” in the Confirmed sub menu
2. View all the records of confirmed orders
3. Click “Print” button

Delivered Orders

Steps:

1. Click “View” in the Delivered sub menu
2. View all the records of delivered orders
3. Click “Print” button

Cancelled Orders

Steps:

1. Click “View” in the Cancelled sub menu
2. View all the records of cancelled orders
3. Click “Print” button

Denied Orders

Steps:

1. Click “View” in the Denied sub menu
2. View all the records of denied orders
3. Click “Print” button

APPENDEX D

SOURCE CODE

_dbconnect.php

```
<?php
$server = "localhost";
$username = "bisublar_lvsweet";
$password = "lvsweets_2022";
$database = "bisublar_onlinefoodorder";
$conn = mysqli_connect($server, $username,
$password, $database);
if (!$conn){
die("Error". mysqli_connect_error());
}?>
```

salesReport.php

```
<?php
if(isset($_GET['from_date'])&&
isset($_GET['to_date'])) {
$from_date = $_GET['from_date'];
 $to_date = $_GET['to_date'];
$query_run=mysqli_query($con,$query);
$result = mysqli_query($conn, $sql);
$sql="SELECT* FROM `orders` WHERE
orderStatus= '4'  AND  reservationdate
BETWEEN '$from_date' AND '$to_date' ORDER
BY orderID DESC";
$result = mysqli_query($conn, $sql);
$counter = 0;$total= 0;
while($row=mysqli_fetch_assoc($result)){
$amount = $row['amount'];
$ddate = $row['reservationdate'];

$orderId = $row['orderId'];
$counter++;
$total = $total + $amount;
echo '<tr>
<td>' . $orderId . '</td>
<td>' . $ddate . '</td>
<td>' . $amount . '</td>
</tr>'; }
}else{
echo "No Record Found";  }
?>
```

index.php

```
<?php
$sql = "SELECT * FROM `food` WHERE status =
'Available Today' ORDER BY foodID DESC";
$result = mysqli_query($conn, $sql);
$noResult = true;
while($row = mysqli_fetch_assoc($result)){
$noResult = false;
$foodId = $row['foodId'];
$foodName = $row['foodName'];
$foodPrice = $row['foodPrice'];
$foodDesc = $row['foodDesc'];
$qty = $row['quantity'];
echo '<div class="col-xs-3 col-sm-3 col-md-3">
<div class="card" style="width: 18rem;">
<img src="img/food-'.$foodId. '.jpg" class="card-
img-top"  width="249px" height="270px">
<div class="card-body">
<h5 class="card-title">' . $foodName. '</h5>
<h6 style="color: #ff0000">Php '.$foodPrice.
'</h6>
<h6 class="card-text">Quantity:  '.$qty. '</h6>
<p class="card-text">' . $foodDesc. '</p>
<div class="col-sm-4 text-center"></div>
<div class="row justify-content-center">';
if($loggedin){
$quaSql = "SELECT `itemQuantity` FROM
`viewcart` WHERE foodId = '$foodId' AND
`userId`='$userId'";
$quaresult = mysqli_query($conn, $quaSql);
$quaExistRows = mysqli_num_rows($quaresult);
if($quaExistRows == 0) {
echo'<form action="partials/_manageCart.php"
method="POST">
<input type="hidden" name="itemId"
value="'.$foodId. '">
<button type="submit" name="addToCart"
class="btn btn-primary mx-2">Add to
Cart</button>';
}else {
echo '<a href="viewCart.php"><button class="btn
btn-primary mx-2">Go to Cart</button></a>';
}}
else{
echo'<button class="btn btn-primary mx-2" data-
toggle="modal" data-target="#loginModal">Addto
Cart</button>';
  }
echo '</form>                          <a
href="viewfood.php?foodid=' . $foodId . '"
class="mx-2"><button class="btn btn-
primary">Quick View</button></a>
</div></div></div></div>';
}if($noResult) {
echo '<div class="jumbotron jumbotron-fluid">
<center> <div class="container">
<p class="display-4">Sorry  No items
available.</p>
<p class="lead"> We will update
Soon.</p></div></div> ';
}?>
```

```
<?php
$sql = "SELECT * FROM `food` WHERE status =
'Not AvailableToday' ORDER BY foodID DESC";
$result = mysqli_query($conn, $sql);
$noResult = true;
while($row = mysqli_fetch_assoc($result)){
$noResult = false;
$foodId = $row['foodId'];
```

```
$foodName = $row['foodName'];
 $foodPrice = $row['foodPrice'];
 $foodDesc = $row['foodDesc'];
echo '<div class="col-xs-3 col-sm-3 col-md-3">
<div class="card" style="width: 18rem;">
<img src="img/food-'.$foodId. '.jpg" class="card-
img-top"  width="249px" height="270px">
<div class="card-body">
<h5 class="card-title">' . $foodName. '</h5>
<h6 style="color: #ff0000">Php '.$foodPrice.
'</h6>
<p class="card-text">' . $foodDesc. '</p>
<div class="row justify-content-center">';
if($loggedin){
$quaSql = "SELECT `itemQuantity` FROM
`viewcart` WHERE foodId = '$foodId' AND
`userId`='$userId'";
$quaresult = mysqli_query($conn, $quaSql);
$quaExistRows = mysqli_num_rows($quaresult);
if($quaExistRows == 0) {
echo '<form action="partials/_manageCart.php"
method="POST">
<input type="hidden" name="itemId"
value="'.$foodId. '">
<button type="submit" name="addToCart"
class="btn btn-primary mx-2">Add to
Cart</button>';
}else {
echo '<a href="viewCart.php"><button class="btn
btn-primary mx-2">Go to Cart</button></a>';
} }else{
echo '<button class="btn btn-primary mx-2" data-
toggle="modal" data-target="#loginModal">Add to
Cart</button>';
}echo '</form>
<a href="viewfood.php?foodid=' . $foodId . '"
class="mx-2"><button class="btn btn-
primary">QuickView</button></a>
</div></div></div></div>';
}if($noResult) {
echo '<div class="jumbotron jumbotron-fluid">
<center> <div class="container">
<p class="display-4">Sorry  No items
available.</p>
<p class="lead"> We will update Soon.</p>
</div></div> ';
} ?>
```

_handleLogin.php

```
<?php
if($_SERVER["REQUEST_METHOD"] ==
"POST"){
include '_dbconnect.php';
$username = $_POST["username"];
$userType = $_POST["userType"];
$password = $_POST["password"];
$sql = "Select * from useradmin where
username='$username'";
$result = mysqli_query($conn, $sql);
$num = mysqli_num_rows($result);
if ($num == 1){
$row=mysqli_fetch_assoc($result);
$userType = $row['userType'];
if($userType == 1) {
$userId = $row['id'];
if (password_verify($password,
$row['password'])){
session_start();
$_SESSION['adminloggedin'] = true;
$_SESSION['adminusername'] = $username;
$_SESSION['adminuserId'] = $userId;
header("location:
/LVSweets/admin/index.php?loginsuccess=true");
exit();
  } else{
header("location:/LVSweets/admin/login.php?logi
nsuccess=false");
}}else {
header("location:/LVSweets/admin/login.php?logi
nsuccess=false");
}} else  if ($num == 0){
$row=mysqli_fetch_assoc($result);
$userType = $row['userType'];
if($userType == 0) {
$userId = $row['id'];
if (password_verify($password,
$row['password'])){
session_start();
$_SESSION['adminloggedin'] = true;
$_SESSION['adminusername'] = $username;
$_SESSION['adminuserId'] = $userId;
header("location:
/LVSweets/admin/index.php?loginsuccess=true");
exit();
} else{
header("location:/LVSweets/admin/login.php?logi
nsuccess=false");
}}else {
header("location:/LVSweets/admin/login.php?logi
nsuccess=false");
}}}
?>
```

_categoryManage.php

```
<?php
include '_dbconnect.php';
if($_SERVER["REQUEST_METHOD"] ==
"POST") {
if(isset($_POST['createCategory'])) {
$name = $_POST["name"];
$desc = $_POST["desc"];
$sql = "INSERT INTO `categories`
(`categorieName`, `categorieDesc`,
`categorieCreateDate`) VALUES ('$name',
'$desc', current_timestamp())";
$result = mysqli_query($conn, $sql);
$catId = $conn->insert_id;
if($result) {
$check =
getimagesize($_FILES["image"]["tmp_name"]);
if($check !== false) {
$newfilename = "card-".$catId.".jpg";
```

```
$uploaddir=
$_SERVER['DOCUMENT_ROOT'].'/LVSweets/im
g/';
$uploadfile = $uploaddir . $newfilename;
if
(move_uploaded_file($_FILES['image']['tmp_nam
e'], $uploadfile)) {
echo "<script>alert('success');
window.location=document.referrer; </script>";
} else {
echo "<script>alert('failed to upload image');
window.location=document.referrer; </script>";
}}else{
echo '<script>alert("Please select an image file to
upload."); </script>';
}}}
if(isset($_POST['removeCategory'])) {
$catId = $_POST["catId"];
$filename =
$_SERVER['DOCUMENT_ROOT']."/LVSweets/i
mg/card-".$catId.".jpg";
$sql = "DELETE FROM `categories` WHERE
`categorieId`='$catId'";
$result = mysqli_query($conn, $sql);
if ($result){
if (file_exists($filename)) {
unlink($filename); }
echo "<script>alert('Removed');
window.location=document.referrer; </script>";
}else {
echo "<script>alert('failed');
window.location=document.referrer; </script>";
}}
if(isset($_POST['updateCategory'])) {
$catId = $_POST["catId"];
$catName = $_POST["name"];
$catDesc = $_POST["desc"];
$sql = "UPDATE `categories` SET
`categorieName`='$catName',
`categorieDesc`='$catDesc' WHERE
`categorieId`='$catId'";
$result = mysqli_query($conn, $sql);
if ($result){
echo "<script>alert('update');
window.location=document.referrer;  </script>";
}else {
echo "<script>alert('failed');
window.location=document.referrer; </script>";
}}
if(isset($_POST['updateCatPhoto'])) {
$catId = $_POST["catId"];
$check =
getimagesize($_FILES["catimage"]["tmp_name"])
;
if($check !== false) {
$newName = 'card-'.$catId;
$newfilename=$newName .".jpg";
$uploaddir =
$_SERVER['DOCUMENT_ROOT'].'/LVSweets/im
g/';
$uploadfile = $uploaddir . $newfilename;
if
(move_uploaded_file($_FILES['catimage']['tmp_n
ame'], $uploadfile)) {
echo "<script>alert('success');
window.location=document.referrer;  </script>";
} else {
echo "<script>alert('failed');
window.location=document.referrer;</script>";
}}else{
echo '<script>alert("Please select an image file to
upload.");
window.location=document.referrer; </script>';
}}}
?>
_menuManage.php
<?php
include '_dbconnect.php';
if($_SERVER["REQUEST_METHOD"] ==
"POST") {
if(isset($_POST['createItem'])) {
$name = $_POST["name"];
$description = $_POST["description"];
$price = $_POST["price"];
$categoryId = $_POST["categoryId"];
$status = $_POST["status"];
$qty = $_POST["quantity"];
$sql = "INSERT INTO `food` (`foodName`,
`foodPrice`, `foodDesc`,
`foodCategorieId`,`status`,`quantity`,
`foodPubDate`) VALUES ('$name', '$price',
'$description', '$categoryId','$status','$qty',
current_timestamp())";
$result = mysqli_query($conn, $sql);
$foodId = $conn->insert_id;
if ($result){
$check =
getimagesize($_FILES["image"]["tmp_name"]);
if($check !== false) {
$newName = 'food-'.$foodId;
$newfilename=$newName .".jpg";
$uploaddir =
$_SERVER['DOCUMENT_ROOT'].'/LVSweets/im
g/';
$uploadfile = $uploaddir . $newfilename;
if
(move_uploaded_file($_FILES['image']['tmp_nam
e'], $uploadfile)) {
echo "<script>alert('success');
window.location=document.referrer; </script>";
} else {
echo "<script>alert('failed');
window.location=document.referrer; </script>";
}}
else{
echo '<script>alert("Please select an image file to
upload.");
window.location=document.referrer;  </script>';
}}
else {
echo "<script>alert('failed');
window.location=document.referrer;</script>";
```

```
}}
if(isset($_POST['removeItem'])) {
$foodId = $_POST["foodId"];
$sql = "DELETE FROM `food` WHERE
`foodId`='$foodId'";
$result = mysqli_query($conn, $sql);
$filename =
$_SERVER['DOCUMENT_ROOT']."/LVSweets/i
mg/food-".$foodId.".jpg";
 if ($result){
if (file_exists($filename)) {
unlink($filename);
}echo "<script>alert('Removed');
window.location=document.referrer;</script>";
}else {
echo "<script>alert('failed');
window.location=document.referrer;</script>";
}}
if(isset($_POST['updateItem'])) {
$foodId = $_POST["foodId"];
$foodName = $_POST["name"];
$foodDesc = $_POST["desc"];
$foodPrice = $_POST["price"];
$status = $_POST["status"];
$foodCategorieId = $_POST["catId"];
$qty = $_POST["qty"];
$sql = "UPDATE `food` SET
`foodName`='$foodName',
`foodPrice`='$foodPrice',
`foodDesc`='$foodDesc',
`foodCategorieId`='$foodCategorieId' ,
`status`='$status', `quantity`='$qty'  WHERE
`foodId`='$foodId'";
$result = mysqli_query($conn, $sql);
 if ($result){
echo "<script>alert('update');
window.location=document.referrer;</script>";
}else {
echo "<script>alert('failed');
window.location=document.referrer;</script>";
}}
if(isset($_POST['updateItemPhoto'])) {
$foodId = $_POST["foodId"];
$check =
getimagesize($_FILES["itemimage"]["tmp_name"]
);
if($check !== false) {
$newName = 'food-'.$foodId;
$newfilename=$newName ."jpg";
$uploaddir =
$_SERVER['DOCUMENT_ROOT'].'/LVSweets/im
g/';
$uploadfile = $uploaddir . $newfilename;
if
(move_uploaded_file($_FILES['itemimage']['tmp_
name'], $uploadfile)) {
echo "<script>alert('success');
window.location=document.referrer;</script>";
} else {
echo "<script>alert('failed');
window.location=document.referrer;</script>";
}}else{
echo '<script>alert("Please select an image file to
upload.");
window.location=document.referrer;</script>';
}}}
?>
```

_orderItemModal.php

```
<?php
$mysql = "SELECT * FROM `orderitems`
WHERE orderId = $orderid";
$myresult = mysqli_query($conn, $mysql);
while($myrow = mysqli_fetch_assoc($myresult)){
$foodId = $myrow['foodId'];
$itemQuantity = $myrow['itemQuantity'];
$itemsql = "SELECT * FROM `food` WHERE
foodId = $foodId";
$itemresult = mysqli_query($conn, $itemsql);
$itemrow = mysqli_fetch_assoc($itemresult);
$foodName = $itemrow['foodName'];
$foodPrice = $itemrow['foodPrice'];
$foodDesc = $itemrow['foodDesc'];
$foodCategorieId = $itemrow['foodCategorieId'];
echo '<tr>
<th scope="row">
<div class="p-2">
<img src="/LVSweets/img/food-'.$foodId. '.jpg"
alt="" width="70" class="img-fluid rounded
shadow-sm">
<div class="ml-3 d-inline-block align-middle">
<h5 class="mb-0"> '.$foodName. '</h5><span
class="text-muted font-weight-normal font-italic d-
block">Php ' .$foodPrice. '</span>
</div></div>
</th>
<td class="align-middle text-center"><strong>'
.$itemQuantity. '</strong></td>
  </tr>';
}?>
```

_orderStatusModal.php

```
$itemModalSql = "SELECT * FROM `orders`";
$itemModalResult = mysqli_query($conn,
$itemModalSql);
while($itemModalRow =
mysqli_fetch_assoc($itemModalResult)){
$orderid = $itemModalRow['orderId'];
$userid = $itemModalRow['userId'];
$orderStatus = $itemModalRow['orderStatus'];

?>
<!-- Modal -->
<div class="modal fade" id="orderStatus<?php
echo $orderid; ?>" tabindex="-1" role="dialog"
aria-labelledby="orderStatus<?php echo
$orderid; ?>" aria-hidden="true">
<div class="modal-dialog" role="document">
<div class="modal-content">
<div class="modal-header" style="background-
color: rgb(111 202 203);">
```

```
<h5 class="modal-title" id="orderStatus<?php
echo $orderid; ?>">Order Status and Delivery
Details</h5>
<button type="button" class="close" data-
dismiss="modal" aria-label="Close">
<span aria-hidden="true">&times;</span>
</button></div>
<div class="modal-body">
<form action="partials/_orderManage.php"
method="post" style="border-bottom: 2px solid
#dee2e6;">
<div class="form-group">
<label class="control-label">Order Status:
</label>
<select name="status"  required>
<option value="1">Confirm </option>
<option value="2">Preparing order</option>
<option value="3">Order is on the way</option>
<option value="4">Delivered</option>
<option value="5">Deny </option>
<option value="6">Cancel</option>
</select></div></div>
<input type="hidden" id="orderId" name="orderId"
value="<?php echo $orderid; ?>">
<button type="submit" class="btn btn-success
mb-2"
name="updateStatus">Update</button>
</form>
</div></div></div></div>
<?php
}?>
<style>
.popover {
top: -77px !important;
    }
</style>
<script>
    $(function () {
        $('[data-toggle="popover"]').popover();
    });
</script>
```

Orderpayment.php

```
<?php
$itemModalSql = "SELECT * FROM `orders`";
$itemModalResult = mysqli_query($conn,
$itemModalSql);
while($itemModalRow =
mysqli_fetch_assoc($itemModalResult)){
$orderid = $itemModalRow['orderId'];
$userid = $itemModalRow['userId'];
$orderStatus = $itemModalRow['orderStatus'];
?>
<!-- Modal -->
<div class="modal fade" id="orderPayment<?php
echo $orderid; ?>" tabindex="-1" role="dialog"
aria-labelledby="orderPayment<?php echo
$orderid; ?>" aria-hidden="true">
<div class="modal-dialog" role="document">
<div class="modal-content">
<div class="modal-header" style="background-
color: rgb(111 202 203);">
<h5 class="modal-title" id="orderPayment<?php
echo $orderid; ?>">Payment Mode</h5>
<button type="button" class="close" data-
dismiss="modal" aria-label="Close">
<span aria-hidden="true">&times;</span>
</button></div>
<div class="modal-body">
<?php
$passSql = "SELECT * FROM sitedetail ";
$passResult = mysqli_query($conn, $passSql);
$passRow=mysqli_fetch_assoc($passResult);
$aname = $passRow['accountname'];
$gcashnum = $passRow['accountnum'];
?>
<form action="partials/_orderManage.php"
method="post" style="border-bottom: 2px solid
#dee2e6;">
<font face="Verdana" color="#505830">
<input type="radio" name="paymethod" value="0"
checked="checked"> Cash-On-Delivery<br/>
<br><input type="radio" name="paymethod"
value="1"> GCash <br> Account Name:<?php
echo $aname; ?> <br> Account Number:<?php
echo $gcashnum; ?> <br /><font>
<br><label>Input Gcash Reference No.</label>
<input type="text" name="gref" id="gref"
class="form-control" style="width:300px;" /><br
/><br />
<input type="hidden" id="orderId" name="orderId"
value="<?php echo $orderid; ?>">
<input type="submit" value="SUBMIT"
name="submit" class="btn btn-success mb-2"">
</div>
</form></div> </div> </div></div>
<?php
    }
?>
<style>
    .popover {
        top: -77px !important;
    }
</style>
<script>
$(function () {
        $('[data-toggle="popover"]').popover();
    });
</script>
```

_handleSignup.php

```
<?php
$showAlert = false;
$showError = false;
if($_SERVER["REQUEST_METHOD"] ==
"POST"){
include '_dbconnect.php';
$username = $_POST["username"];
$firstName = $_POST["firstName"];
$lastName = $_POST["lastName"];
$email = $_POST["email"];
```

```
$phone = $_POST["phone"];
$address = $_POST["address"];
$password = $_POST["password"];
$cpassword = $_POST["cpassword"];
$existSql = "SELECT * FROM `users` WHERE
username = '$username'";
$result = mysqli_query($conn, $existSql);
$numExistRows = mysqli_num_rows($result);
if($numExistRows > 0){
$showError = "Username Already Exists";
header("Location:
/LVSweets/index.php?signupsuccess=false&error
=$showError");
}else{
if(($password == $cpassword)){
$hash = password_hash($password,
PASSWORD_DEFAULT);
$sql = "INSERT INTO `users` ( `username`,
`firstName`, `lastName`, `email`, `phone`,
`address`, `password`, `joinDate`) VALUES
('$username', '$firstName', '$lastName', '$email',
'$phone','$address', '$hash',
current_timestamp())";
$result = mysqli_query($conn, $sql);
if ($result){
$showAlert = true;
header("Location:
/LVSweets/index.php?signupsuccess=true");
}}else{
$showError = "Passwords do not match";
header("Location:
/LVSweets/index.php?signupsuccess=false&error
=$showError");
}}}
?>
```

_handleLogin.php

```
<?php
if($_SERVER["REQUEST_METHOD"] ==
"POST"){
include '_dbconnect.php';
$username = $_POST["loginusername"];
$password = $_POST["loginpassword"];
$sql = "Select * from users where
username='$username'";
$result = mysqli_query($conn, $sql);
$num = mysqli_num_rows($result);
if ($num == 1){
$row=mysqli_fetch_assoc($result);
$userId = $row['id'];
if (password_verify($password,
$row['password'])){
session_start();
$_SESSION['loggedin'] = true;
$_SESSION['username'] = $username;
$_SESSION['userId'] = $userId;
header("location:
/LVSweets/index.php?loginsuccess=true");
exit();
}else{
header("location:
/LVSweets/index.php?loginsuccess=false");
}} else{
header("location:
/LVSweets/index.php?loginsuccess=false");
}}
?>
```

_manageCart.php

```
<?php
include '_dbconnect.php';
session_start();
if($_SERVER["REQUEST_METHOD"] ==
"POST") {
$userId = $_SESSION['userId'];
if(isset($_POST['addToCart'])) {
$itemId = $_POST["itemId"];
$existSql = "SELECT * FROM `viewcart` WHERE
foodId = '$itemId' AND `userId`='$userId'";
$result = mysqli_query($conn, $existSql);
$numExistRows = mysqli_num_rows($result);
if($numExistRows > 0){
echo "<script>alert('Item Already Added.');
window.history.back(1);  </script>";
}else{
$sql = "INSERT INTO `viewcart` (`foodId`,
`itemQuantity`, `userId`, `addedDate`) VALUES
('$itemId', '1', '$userId', current_timestamp())";
$result = mysqli_query($conn, $sql);
if ($result){
echo "<script>
window.history.back(1);</script>";
}}}
if(isset($_POST['removeItem'])) {
$itemId = $_POST["itemId"];
$sql = "DELETE FROM `viewcart` WHERE
`foodId`='$itemId' AND `userId`='$userId'";
$result = mysqli_query($conn, $sql);
echo "<script>alert('Removed');
window.history.back(1);</script>";
}if(isset($_POST['removeAllItem'])) {
$sql = "DELETE FROM `viewcart` WHERE
`userId`='$userId'";
$result = mysqli_query($conn, $sql);
echo "<script>alert('Removed All');
window.history.back(1);</script>";
}if(isset($_POST['checkout'])) {
$amount = $_POST["amount"];
$paymentMode = $_POST["paymentMode"];
$reservation= $_POST["reservation"];
$reservationdate= $_POST["reservationdate"];
$items=  $Quantity." , ".      $foodName;

$name = $_POST["name"];
$address1 = $_POST["address"];
$address2 = $_POST["address1"];
$phone = $_POST["phone"];
$password = $_POST["password"];
$address = $address1.", ".$address2;
$passSql = "SELECT * FROM users WHERE
id='$userId'";
```

```
$passResult = mysqli_query($conn, $passSql);
$passRow=mysqli_fetch_assoc($passResult);
$userName = $passRow['username'];
if (password_verify($password,
$passRow['password'])){
$sql = "INSERT INTO `orders` (`userId`,
`customerName`, `address`,  `phoneNo`,
`amount`,`items`,
`paymentMode`,`reservation`,`reservationdate`,
`orderStatus`, `orderDate`) VALUES
('$userId','$name', '$address',  '$phone',
'$amount','$items',
'$paymentMode','$reservation','$reservationdate',
'0', current_timestamp())";
$result = mysqli_query($conn, $sql);
$orderId = $conn->insert_id;
if ($result){
$addSql = "SELECT * FROM `viewcart` WHERE
userId='$userId'";
$addResult = mysqli_query($conn, $addSql);
while($addrow =
mysqli_fetch_assoc($addResult)){
$foodId = $addrow['foodId'];
$itemQuantity = $addrow['itemQuantity'];
$itemSql = "INSERT INTO `orderitems`
(`orderId`, `foodId`, `itemQuantity`) VALUES
('$orderId', '$foodId', '$itemQuantity')";
$itemResult = mysqli_query($conn, $itemSql);
}
$deletesql = "DELETE FROM `viewcart` WHERE
`userId`='$userId'";
$deleteresult = mysqli_query($conn, $deletesql);
echo '<script>alert("Thanks for ordering.Plese
wait for text confirmation.");
window.location.href="http://lvsweets.bisubilar.or
g/LVSweets/index.php";  </script>';
exit();
}} else{
echo '<script>alert("Incorrect Password! Please
enter correct Password.");
window.history.back(1);</script>';
exit();
} }
if(!empty($_SERVER['HTTP_X_REQUESTED_W
ITH']) &&
strtolower($_SERVER['HTTP_X_REQUESTED_
WITH']) == 'xmlhttprequest')
{
$foodId = $_POST['foodId'];
$qty = $_POST['quantity'];
$updatesql = "UPDATE `viewcart` SET
`itemQuantity`='$qty' WHERE `foodId`='$foodId'
AND `userId`='$userId'";
$updateresult = mysqli_query($conn,
$updatesql);
  }}
?>
```

Developer's Biodata

Name : Josephine O. Morica
Place of Birth : Caluasan, Dagohoy, Bohol
Birth Date : April 21, 2000
Age : 22
Home Address : Caluasan, Dagohoy, Bohol
Email Address : josephinemorica@gmail.com
Religion : Christian Believer
Citizenship : Filipino
Father's Name : Prisciliano C. Morica
Mother's Name : Ma. Cleofe O. Morica

EDUCATIONAL BACKGROUND

Elementary : Caluasan Elementary School
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2011 – 2012

Secondary : Dagohoy National High School
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2017 – 2018

Tertiary : Bachelor of Science in Computer Science
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2021 - 2022

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Developer's Biodata

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Elementary : Babag Elementary School
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2011 – 2012

Secondary : Mahayag National High School
Mahayag, San Miguel, Bohol
2017 – 2018

Tertiary : Bachelor of Science in Computer Science
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Developer's Biodata

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Religion : Roman Catholic
Citizenship : Filipino
Father's Name : Oliver G. Hagopit
Mother's Name : Marissa R. Hagopit

EDUCATIONAL BACKGROUND

Elementary : San Vicente Elementary School
San Vicente, Dagohoy, Bohol
2011 – 2012

Secondary : Dagohoy National High School
Poblacion, Dagohoy, Bohol
2017 – 2018

Tertiary : Bachelor of Science in Computer Science
Bohol Island State University
Zamora, Bilar, Bohol
2021 - 2022

Work Experience : LGU Batuan (On the Job Training)
Poblacion, Batuan, Bohol
November – December 2017
: BISU Bilar Campus (On the Job Training)
Zamora, Bilar, Bohol
September – October 2021