

**ONLINE ORDERING SYSTEM OF TEAMARAH AND SNACKS
POBLACION, PILAR, BOHOL**

**College of Technology and Allied Sciences
BOHOL ISLAND STATE UNIVERSITY
Zamora, Bilar, Bohol**

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June 2022

**ONLINE ORDERING SYSTEM OF TEAMARAH AND SNACKS
POBLACION, PILAR, BOHOL**

A Thesis
Presented to the Faculty of the
College of Technology and Allied Sciences
BOHOL ISLAND STATE UNIVERSITY
Zamora, Bilar, Bohol

In Partial Fulfillment
Of the Requirements for the Degree
Bachelor of Science in Computer Science

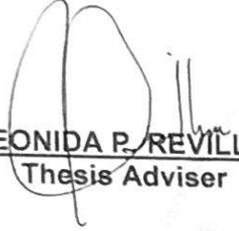
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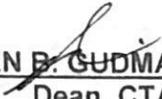
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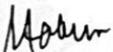
This thesis entitled "Online Ordering System of TEAmarah and Snacks Poblacion, Pilar, Bohol" prepared and submitted by *Ma. Nelia P. Wagas, Shiela B. Duyac, Jessa D. Galagar, and Sheryl Lane Mar* in partial fulfillment of the requirements for the degree Bachelor of Science in Computer Science has been examined and recommended for acceptance and approval for oral defense.

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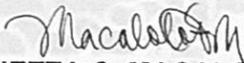

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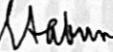

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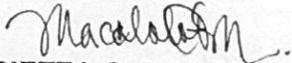

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ABSTRACT

The study aimed to develop an Online Ordering System of TEAmarah and Snacks Poblacion, Pilar, Bohol. Currently, the five (5) branches in the TEAmarah and Snack is using a manual operation in managing order process. Based on the personal interviews, document reviews, and observation, manual operation was used. The snackbar use notebook to record all the sales and ordered products, list of stocks available and lacking ingredients. The stated concerns and issue in maintaining orders prompted the developers to devise a solution to ease their job, particularly in ordering, managing orders, highlighting ordered products, their details, and the products/services offered. Based on the identified need, Online Ordering System of TEAmarah and Snack Poblacion Pilar, Bohol was developed with the following module: Acquisition, Ordering, Advertising, Payment and Generation of Reports. During the testing and implementation, system and web usability questionnaire was used for evaluation. The gathered data obtained an average weighted mean of 4.7 with an interpretation of "Excellent" indicating that the developed system is pleasant, easy to grasp, dependable, and efficient to use. As a result, it is highly recommended that the Online Ordering System of Teamarah and Snacks Poblacion, Pilar, Bohol will be implemented in order to have an effective means of handling customer's order.

Chapter 1

THE PROBLEM AND ITS SCOPE

Rationale

Almost any type of information may now be accessed via a computer. The 21st century is a time of rapid technological innovation, making it very challenging for any firm to remain viable without using technology. A huge worldwide knowledge database is being created thanks in large part to the internet. It might also be employed as a system for information sharing within an organization (Inson et al, 2011).

TEAmarah and Snacks offer a variety of comfort foods and milktea that satisfy everyone's craving. It also offer surprise packages in form of a car delivery for family or loved ones. Upon visit to their snackbar it offer a free wifi and has a nice and relaxing place. And you can order products over the counter or through messenger.

The process of selling, delivering, and managing items is crucial to the management of TEAmarah and Snacks. The main branch is located at Poblacion, Pilar, Bohol and expanded to four branches in different municipalities, namely Sierra-Bullones, Tubigon, Talibon, and Candijay. The TEAmarah and Snacks has manager and employees, with the owner overseeing the main branch and their parents overseeing the other branches.

Currently, customers can choose and order foods through the TEAmarah and Snacks Facebook Page, messenger and txt/sms at the moment which could

result to problems like duplicate or missing orders. As of now, they use manual method in recording the sales and ordered products. The developers create an ordering system that will enable easy transactions while also promoting the business on the web.

With this, the study aimed to address the identified problem by creating an Online Ordering System of TEAmarah and Snacks Poblacion, Pilar, Bohol, that highlights ordering products, their details, and the products offered with a website optimization used for transaction, marketing, and advertisement.

Literature Background

Article XIV, Section 2 of the 1987 Philippine Constitution of the Republic of the Philippines provides that:

“Science and technology are essential for national development and progress. The state shall give the 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 (Official Gazzette, 1985)”

According to this article, science and technology is important in order to provide convenience and concrete benefit in support for the development and program of the nation. ICT is an arm in the case for innovation and utilization of technology with this mandate; thus, it supports the developer’s aim which is to develop a system to facilitate monitoring and improve the effectiveness of the unit. Furthermore, it simply established procedures which are ought to be taken in order to improve the throughput of work.

According to the Transaction Processing Theory [Elmasri and Navareth, 2007], a transaction is a logical unit of database processing that includes one or more access operations (read-retrieve, write-insert, or update, delete), it is a study of a set of operations where each transaction must succeed or fail as a whole and cannot remain in an intermediate state. Transaction processing is designed to keep a database in a known, consistent state by guaranteeing that all independent activities on the system are either completed successfully or cancelled effectively. A website or an online ordering system must be able to present the viewer with inferable information. The system must also be adaptable, with transaction processing theory serving as the study's foundation.

Consideration of the website design and operation is dependent upon the nature of business activities and target consumers. A website must be simple and focused site to succeed. One that is easy build, maintenance-free, low cost, trustworthy, and powerful traffic-builder and consumer-converter (Burleson, 2005) having the right tool and the right product alone doesn't ensure the success of the website. To be effective, the website must be designed with the target audience as a foremost consideration. Website design must balance design considerations and capabilities with client objectives and the customer's level of understanding in modern technology.

The following related systems were used as references which are significant in the study:

1. ONLINE FOOD ORDERING SYSTEM (Adithya R. et al., India, 2017) states that their system overcomes the disadvantages of the traditional queuing

- system. The said system improves the method of taking the order from customer. The online food ordering system sets up a food menu online and customers can easily place the order as per their wish. This system is similar to the developed system because it also provide confirmation to check the customers ordered products.
2. Food Ordering System Using Mobile Phone (Wai Hong Leong UTAR, 2016). state that the ordering system that can be used to revolutionize the traditional ordering system that currently implemented in majority of the food and beverage industry to assist the business routine in term of having better management as well as easier to handle daily business operation. This process of this system is the same on the developed system.
 3. Geancyfood Online Reservation System (Brigula, 2016). It is an online web-based system wherein clients can make catering reservations through online. The system can help the catering administration manage their filter, monitor, and store and secure of all the reservations records. The system will help the administration in making their work easy and fast such as updating, adding new menu, and printing of records since all the files will be stored in the database. The system allows clients to check their reservations and availability whenever they are online and can make catering reservations right away. Only the authorized personnel can access the system with the use of its username and password for the security purposes. This system is similar to the developed system that provides online ordering products.

4. JJ Printing Press Online Ordering System of Olongapo City (Ballares, 2014).

They implement a system that gives the company an easier and faster way of offering services through the internet. The client would just simply log in on a computer connected to the internet that can gather all the information that they need from the company. The website also allows the customer to order products and transaction business in which they can save time. This system is similar to the developed system as it provides online ordering products.

5. Online Pizza Ordering System. Online Pizza ordering system is a web-based

application that enables customers to order their pizza online and pick up from the pizzeria. This system will provide the customers with all the details of his/her order before making the order. This confirmation will help customers to check the items ordered with their prices. The system will show time by which the order will be delivered to the customer. The similarities in this system with the developed one is that it allows the customers to order multiple kinds of products. It also allows the customer to view the catalogue where the products can be seen and before ordering, the customer will log-in first to make their order. This system is similar to the developed system because it also provides confirmation to check the customers ordered products.

The existence of these systems serves as the basis of the developers in improving the developed system. This will help and guide the developers on how to improve the ordering management of the present system of the 5 branches TEAmarah and Snacks in Pilar, Bohol.

THE PROBLEM

Statement of the Problem

This study aims to develop an Online Ordering System of TEAmarah and Snacks Bar at Poblacion, Pilar, Bohol.

Specifically, the study sought to answer the following questions:

1. What is the current process in ordering of product at TEAmarah and Snacks Bar?
2. What are the needs and problems encountered in managing the orders at TEAmarah and Snacks Bar?
3. What is the possible solution of the problems encountered?
4. What is the level of system usability as perceived by the target user?

The proposed system is to be called Online Ordering System of TEAmarah and it will integrate the following processes:

1. implement an online system that will help the customers in ordering and allows the owner to manage the orders
2. design and implement the following modules:
 - a. acquisition,
 - b. ordering,
 - c. advertising,
 - d. payments,
 - e. administration, and

3. implement business intelligence technique for decision-support to the establishment

Scope and Delimitations

The study focused on the development of online ordering system. The Online Ordering System of TEAmarah and Snacks Poblacion, Pilar, Bohol serves as the way in ordering, paying and advertising the product. These are the following modules used in developing a system.

1. **Online Mechanism** – This feature helps the Online Ordering System of TEAmarah and Snacks Bar at Poblacion, Pilar, Bohol with modular access that meets the needs of the business.
2. **Acquisition** – This includes the inquiry process of both customer and administration regarding the availability of items. It also incorporates a simple search facility.
3. **Ordering** – This feature facilitates the ordering process of between TEAmarah and its customers. This also includes the delivery and cash-on-delivery and GCash as the modes of payment.
4. **Advertising** – This feature promote the business by showing their menu and their specialties.
5. **Payments** – The customer can pay their orders over-the-counter, Cash-on-Delivery, and via Cash depending on how they did the ordering transaction. Upon payment, they will be provided with a receipt, or shown a screenshot of their order transaction as proof of payment.

6. **Administration** – This function provides administrative tools for system maintenance and configuration and facilitates the management of users, privileges and security.
7. **Reports** – The module that provides electronic reporting to serve the strategic management of the system. It offers customizable sales reports and inventory reports.

The system is limited on two levels of access: administration, cashier and customers. Because they have access to specific modules that are concealed from the costumers, such as Product Management, the administrator is totally responsible for monitoring and maintaining the website. At first, the system will only have one (1) administrator, who will be able to add more administrators by filling out a form that can only be found in the Admin module, which will require the personnel to provide information such as their full name, phone number, username as well as a password.

Significance of the Study

The system of TEAmarah and Snacks would help the owner/manager by managing their business and promoting and advertising products to the costumer/s. Furthermore, the study will benefit the following:

Owner/Manager. The owner who oversees the entire management of the business. This study can help the owner to easily check the sales of different branches. He can also easily add available products for the customers to easily browse and order products.

Cashier. The cashier receives and manages payments of the customer in the different branches assigned. He/she can create accounts for dine in customers. It is advantageous for the cashier to have a web-based system to easily calculate the customer's payment and process their orders.

Customers. The customer will benefit from the system as it will become convenient for them to browse the products and order it in real-time queuing. By having the ability to look at the menu and make their selections, they no longer need to ask what's available, what side choices are options, or whether or not your restaurant carries a certain product. Customers are free to peruse the menu for as long as necessary before placing their order without tying up valuable time on the phone with one of your employees. Customers can order quickly and efficiently, which means they have to wait less time for their food to be ready.

Researchers. The output of this study will be used as a resource for future students who wish to do similar or related research. Researchers will also be able to increase their ability to communicate with others by collecting data and conducting observations.

RESEARCH METHODOLOGY

Development Framework

Figure 1 presents the conceptual diagram of the system which follows the principles of the input-process-output. It includes the system's basic functionality, as well as the duties of the owner as both owner/manager and cashier, as well as the customer's. The owner and the customer are both involved in the process. Acquisition, Administration, Advertising/Content Management, Ordering, and Payment are all part of the process. The decision support is aided by the report.

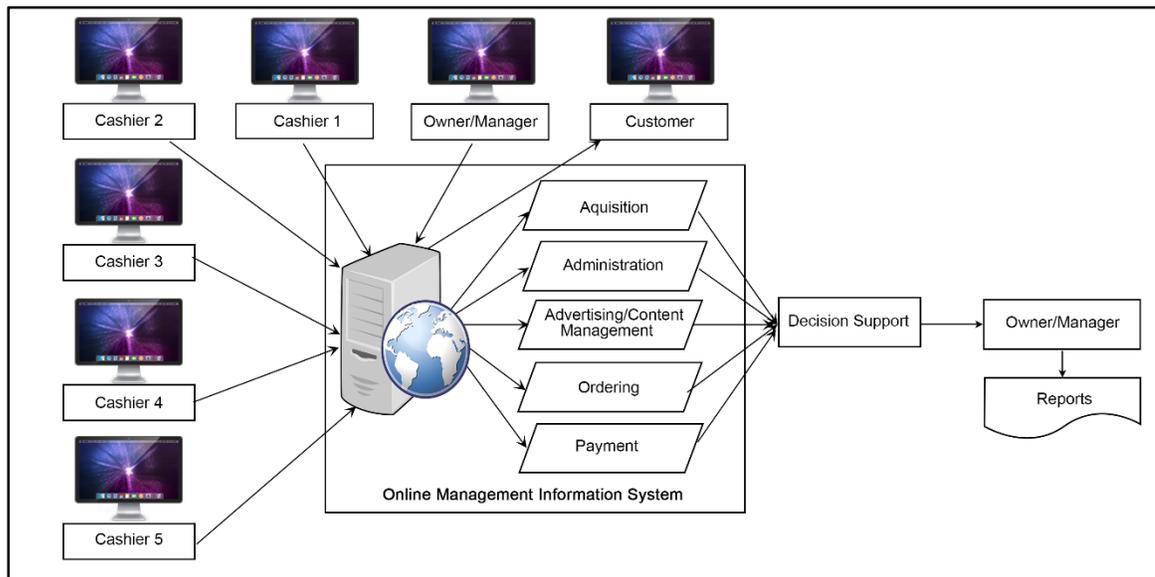


Figure 1. Conceptual Diagram of the System

Figure 2 the Block Diagram of the Online Ordering System of TEAmarah and Snacks Poblacion, Pilar, Bohol. It covers the basic functionality of the system that represents the entities who will be involved in using and maintaining the system. It provides the specification of the basic features of the system that serves with the entities, functionalities, inputs, and expected outputs of the system.

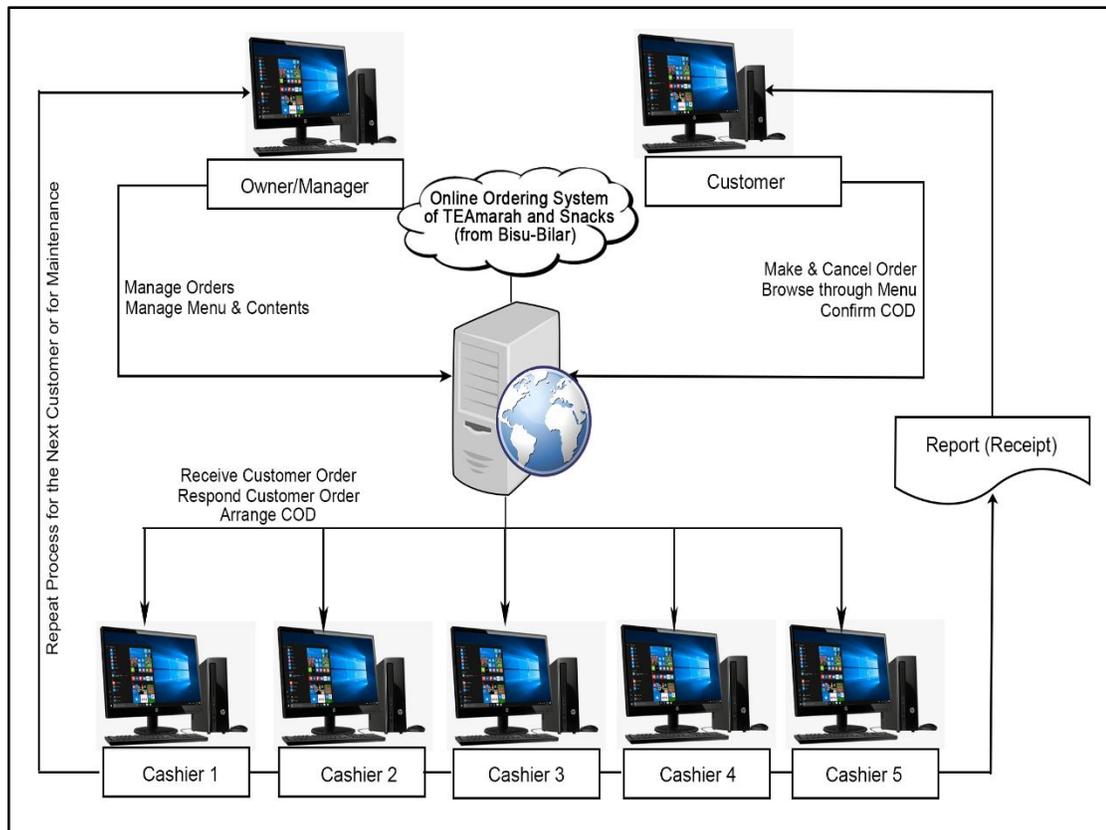


Figure 2. Block Diagram of the System

Development Models and Approaches

The Online Ordering System of TEAmarah and Snacks Bar Poblacion, Pilar, Bohol was developed using the Rapid Application Development (RAD) which is a progressive development model that prioritizes rapid prototyping and quick feedback over a long development and testing cycle. It is a progressive development model that prioritizes rapid prototyping and quick feedback over a long development and testing cycle. Without having to start a development plan from scratch every time, this methodology lets developers to make several revisions and upgrades to a software swiftly. This methodology is based on the idea that software projects should be treated as if they were made of clay rather than steel.

RAD is more concerned with the quality of the final product than with the delivery methods and timeframes. As a result, as a first step, the developers should be able to meet with their client to discuss the project's objectives and expectations. They must also consider the existing and future issues that may arise during the process of development.

Next, a simple prototype with various features and functionalities will then be created by the developers, which will be shown to the client for feedback and suggestions. Without adequate polish, a prototype is developed solely to show off particular aspects. Normally, this is typical, and the final product is only developed when both clients and developers are able to agree on the final result during the finalization stage.

After that, the prototypes created in the preceding step will then be turned into working models after that. It is easier and faster for developers to produce the final working model because the majority of the flaws and changes were handled during the iterative design phase. The client, on the other hand, has the ability to provide feedback at any point during the process and make changes, tweaks, or even new ideas to help solve problems as they arise. The developers and testers work on the product until it satisfies the client's requirements and objectives.

Finally, after the lengthy process of system modification, a trial product or the final product itself will be implemented and set for launching. During this stage all the final changes are made, data conversion, testing, and changeover to the new system is done. User training is also imparted during this phase.

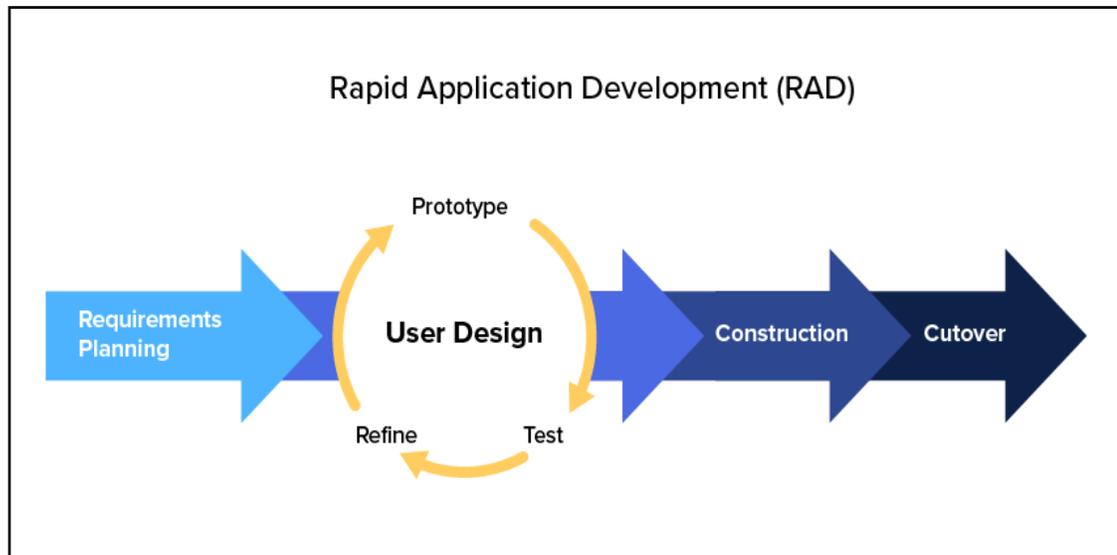


Figure 3. Rapid Application Development Model of the Proposed System

The following were the tools that were used in the development and analysis phase of the Online Ordering System of TEAmarah and Snacks Bar Poblacion, Pilar, Bohol:

1. **Hypertext Pre-processor (PHP)** – is an open-source web developer used for creating websites. It is a widely-used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML. It will be used in the scripting language for the development of the TEAmarah and Snacks Ordering System.
2. **Sublime Text** – it is a proprietary cross-platform source code editor. It natively supports many programming languages and mark-up languages, and functions can be added by users with plugins, typically community-built and maintained under free-software licenses. It is used to edit scripting languages used in the developed system.

3. **Wamp Server** – it is a window web development environment. It allows the developer to create web applications with apache2, PHP, Python, or Perl and MySQL Database that are used to create an application on online viewing and data basing in the proposed system.
4. **MySQL** – offers the standard database driver connectivity for using MySQL with applications and tools that are compatible with industry standards ODBC and JDBC. Any system that works with ODBC or JDBC can use MySQL. It was used in the connectivity of database in the programming application of the develop system.
5. **Adobe Photoshop** – is a graphics editing program developed and published by Adobe Systems, a leading paint from Adobe Systems. It is used for designing the interface of the presented system software. This was used by the developers in designing and editing their desire theme of the develop system.
6. **Cascading Style Sheets (CSS)** – is a style sheet language used for describing the presentation semantics of a document written in a mark-up language. CSS is designed primarily to enable the separation of a documented content (written in Hypertext Mark-up Language (HTML) from document presentation, including elements such as layout, colors, fonts, and the interface design of the proposed system.
7. **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 proposed system.

8. **JavaScript** – is a scripting language, primarily used on the web. It is used to enhance HTML code. It is also an intercepted language. It renders web pages interactively and dynamically.
9. **Hostgator** – 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 System of TEAmarah and Snacks Poblacion, Pilar, Bohol.
10. **Web Hosting-** It is a web hosting service and a type of internet hosting service that allows the system to be accessible via the World Wide Web.

Environment and Participants

The study was conducted at the five (5) branches of TEAmarah and Snacks Bar located at Pilar, Candijay, Sierra Bullones, Tubigon and Talibon Bohol. It is owned and managed by Ms. Dezza Florendo. They have 9 employees and they can accommodate 45-60 persons for dine-in and around 26 orders for take-out daily. They also offer services like delivering their products and payment can be done through COD or GCash. The business opens every day at 8:30 AM – 9:00 PM. The participants of the study were the owner/manager, five branch cashier/s, and customers. The respondents were personally interviewed about the distribution and ordering process of products and the problem encountered particularly in the ordering and management of records.

Data Collection

The developers made a letter request and ask for approval of the owner of TEAmarah owner and manager to conduct a study. A personal interview, document interview and observation was conducted to gather the needed information we need in line with this study. In a personal interview, guide questions were used to ask the personnel's about the management and processes in the ordering of products including the problems encountered of TEAmarah and Snacks.

In the document review, different soft and hard files were evaluated, including the different forms used in the recording of order information. The format of each document was familiarized including its content.

The observation was also done in the snack bar in order to get acquainted with the different processes and procedure in ordering the different available menus in Teamarah and Snacks.

The testing and evaluation were also performed to determine the general acceptability of the system. For web usability, the web usability questionnaire were used as an instrument to determine the perception of the target user as to its web acceptability. To ensure the system, evaluation of the system was done in using the web usability questionnaire.

On the other hand, the respondents for web usability involve 25 persons. These respondents were the 1 IT expert', 5 cashier, 18 customer and 1 manager/owner. Table 1 shows the summary of respondents in the web and system usability.

Table 1

Summary of respondents in the Web and System Usability

Respondents	No. of Respondents
Web-users:	
IT Expert	1
Manager/Owner	1
Customer	18
Cashier	5
Total	25

In web usability, the operation and features of the system were presented to all possible users. After the orientations and hands-on activities, a questionnaire was provided to assess the level of web usability and acceptability. The respondents were given time to rate the items in the adapted questionnaire by Massachusetts Institute of Technology (MIT, 1995) Table 2 and table 3 shows the guide for the interpretation of the results in web and system 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 system good with non-critical errors causing confusion.
2	1.9-2.6	Fair	The respondents find the system to be fair, having serious problems that need high priority fix.
1	1.0-1.8	Poor	The respondents find the system poor with severe problems.

To determine the acceptability of the system, the average weighted mean score was computed to evaluate/assess the system usability level using the following formula.

$$WMS = \frac{1f_1 + 2f_2 + 3f_3 + 4f_4 + 5f_5}{n}$$

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 = a constant (rating to the service provided)

Table 3

Interpretative Guide of the System Usability

Weight	Range	Description	Interpretation
7	6.4 - 7.0	Strongly Agree	The respondents strongly believe and confident that the system is very usable.
6	5.5 – 6.3	Agree	The respondents believe and confident that the system is usable.
5	4.6 – 5.4	Tend to Agree	The respondents tend to agree that the system is usable.
4	3.7 – 4.5	Neither Agree or Disagree	The respondents neutral in trusting that the system is usable.
3	2.8 – 3.6	Tend to Disagree	The respondents tend not to trust the system is usable.
2	1.9 – 2.7	Disagree	The respondents believe that the system is not usable.
1	1.0 – 1.8	Strongly Disagree	The respondents strongly confident that the system is not usable.

OPERATIONAL DEFINITION OF TERMS

The terminologies used or mentioned in this study and were further defined operationally in the study:

Cashier. A person who is in charge in accepting and computing payments, he can also take the order of the customers.

COD. Cash on delivery, sometimes called collect on delivery or cash on demand, is the sale of goods by mail order where payment is made on delivery rather than in advance.

Delivery Person. The person who deliver the products and provide reports of the delivered products. He is also responsible for receiving payments for COD transactions.

Module. A software component or part of a program that contains one or more routines. Modules make a programmer's job easy by allowing the programmer to focus on only one area of the functionality of the software application.

Online Food Ordering System. Defined as a software that allows restaurant businesses to accept and manage orders placed over the internet.

Owner/Manager. The person that plan and organize the day-to-day operations of their business. And the one who is responsible for the upkeep, configuration, and reliable operation of computer systems, especially multi-user computers, such as servers.

Prototype. A rudimentary working model of a product or information system, usually built for demonstration purposes or as part of the development process.

Reports. A brief summary distilled from a larger set of data, intended for a specific customer.

Researchers. The person that supervise research projects to accomplish specific objectives. Their duties include identifying research goals, establishing methods and setting budgets for the organization for which they work.

TEAmarah Online Ordering System. Name of the ordering system website to be developed by the researchers to automate the current manual system being practiced by the establishment.

Chapter 2

PRESENTATION OF FINDINGS, ANALYSIS AND INTERPRETATION OF DATA

Existing Process and Operation

The ordering system of TEAmarah and Snacks is still using a manual method in accommodating the inquiry and orders of the customers. The customers manually visit the shop to get the products they want or by visiting TEAmarah official Facebook page, which causes problems like duplicate or missing orders. The existing system involves different processes:

A. Recording Process

The information about the products is stored in notebook. The owner can add new menu and get the menu detail like menu name, menu price, and can also update and delete menus and it is stores in the notebook. The owner keeps all the records of TEAmarah and Snack's product information.

B. Inquiry Process

Inquiries of the customers are made by visiting the shop in the nearest area. The customer can also browse the products through the owners facebook account or at TEAmarah Facebook page for the inquiries about the transaction.

C. Ordering Process

Walk-in customers order products by simply visiting the nearest shop in their area. The manager or cashier will then check the availability of the products that the customers want to purchase or order from the shop. Also, the customer can send their orders by messaging their Facebook page or txt/sms with cash on

delivery or thru Gcash. And if the customer will order through a manager or cashier, he or she can choose the payment mode either cash on delivery or by sending the payment thru Gcash.

D. Delivery Process

In order to deliver the product, the delivery person will send the order to the customer, provide reports that the products have been delivered, process cash on delivery payments, and provide a receipt. The customer makes payments and receives order products with the receipt.

E. Payment Process

After taking the order of the customer, they can choose what mode of payment, whether cash or Gcash. As for walk in customers, they can pay over the counter and also can choose cash or Gcash.

F. Generation of Reports

Based on manual operation, the owner and cashier will visit the facebook page to check for list of orders and write it on a notebook. For walk in customers, the cashier takes the order and then writes the order in a notebook.

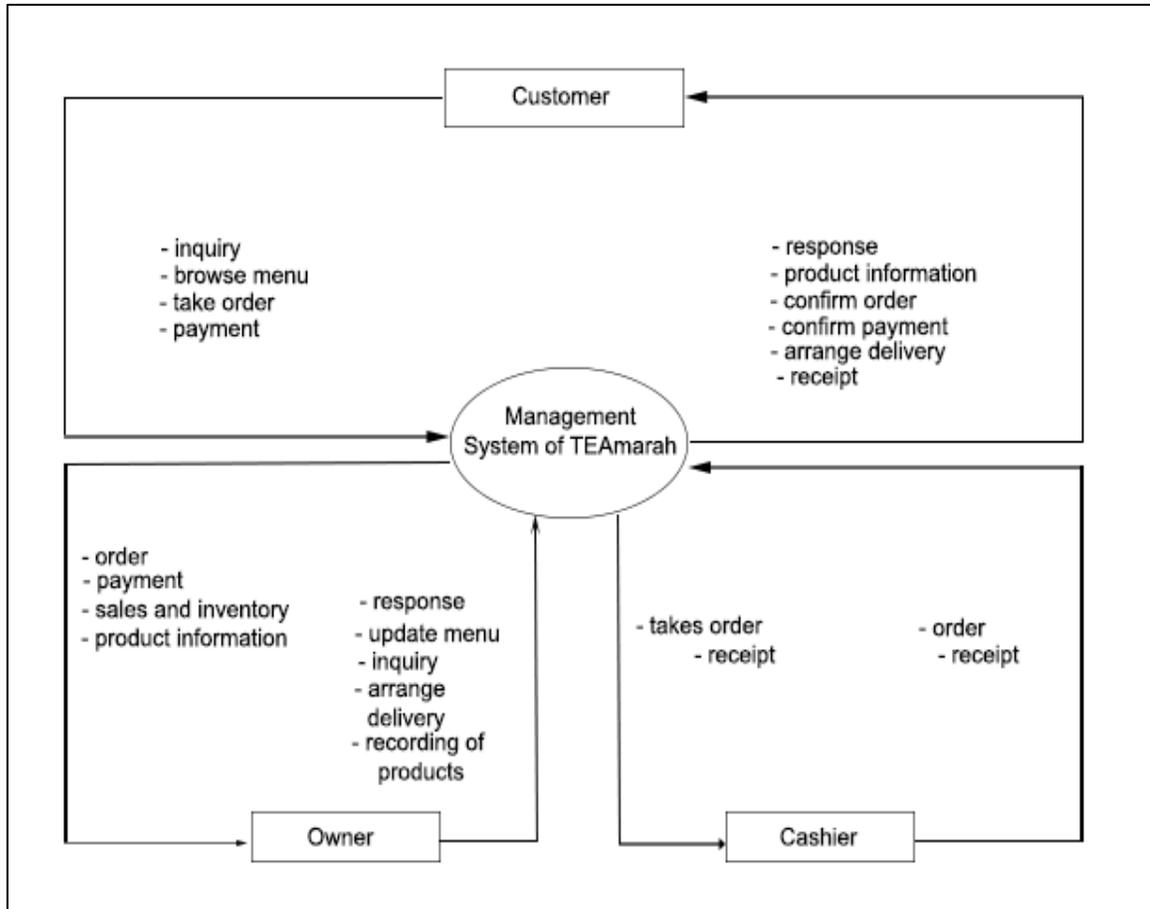


Figure 4. Contextual Diagram of the Present System

Event Specification

Even List:

1. Recording Process
2. Inquiry Process
3. Product Ordering
4. Delivery Process
5. Payment Process
6. Generation of Reports

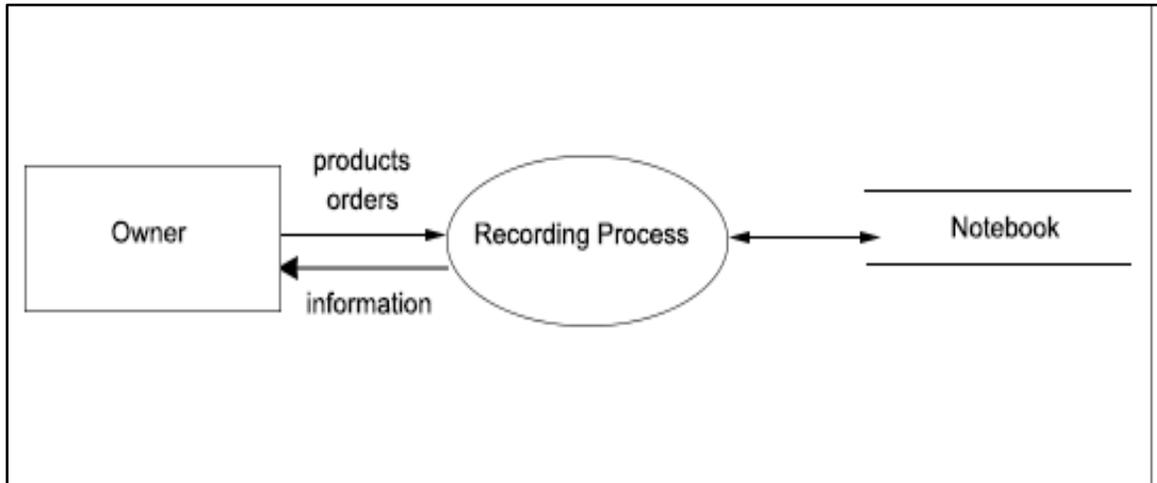


Figure 5. Recording of Product, (Event 1)

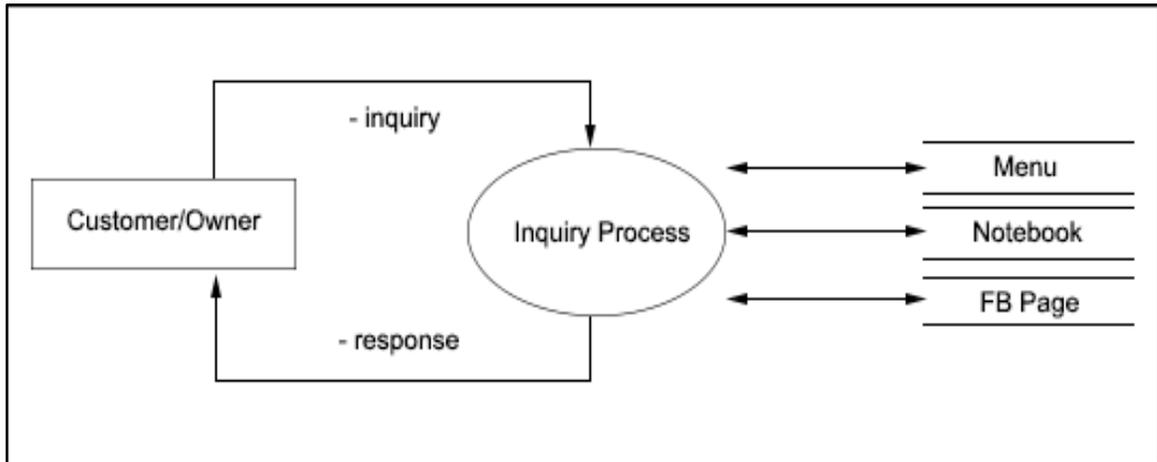


Figure 6. Inquiry Process (Event 2)

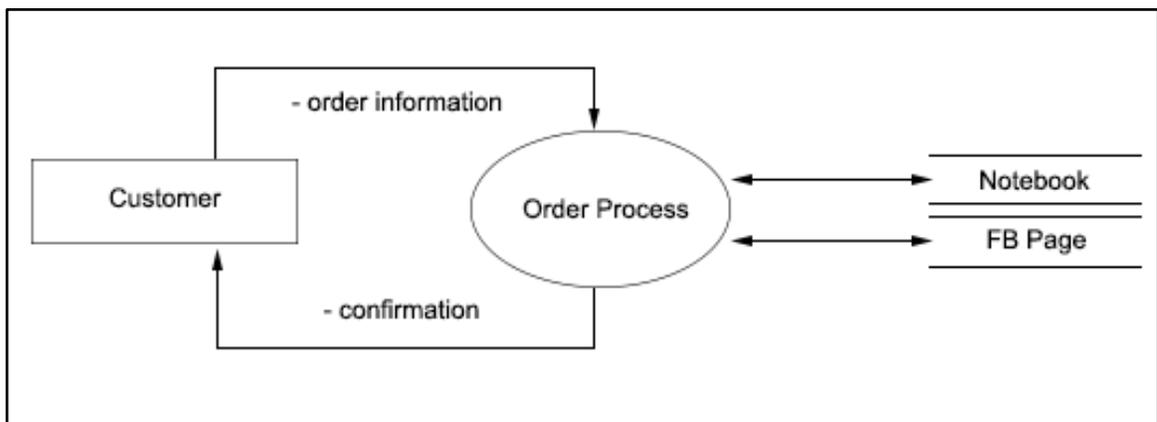


Figure 7. Product Ordering Process (Event 3)

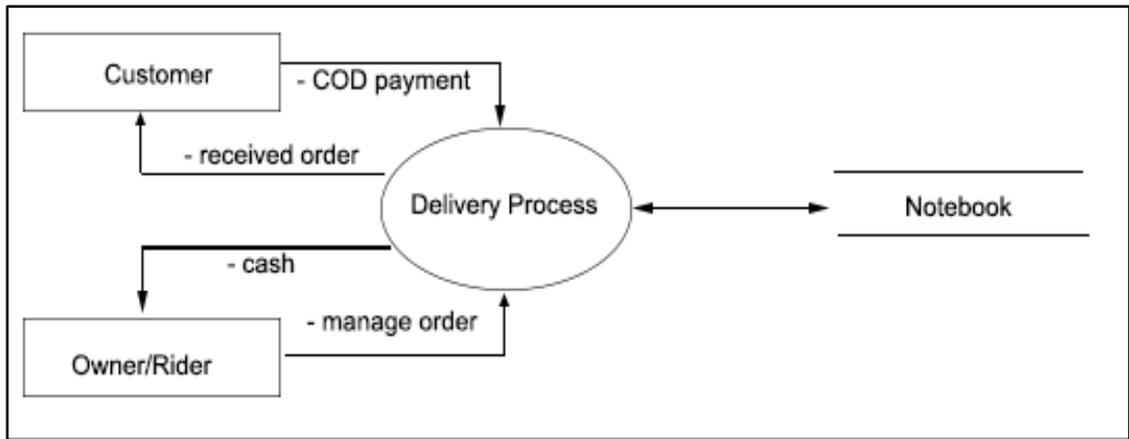


Figure 8. Delivery Process (Event 4)

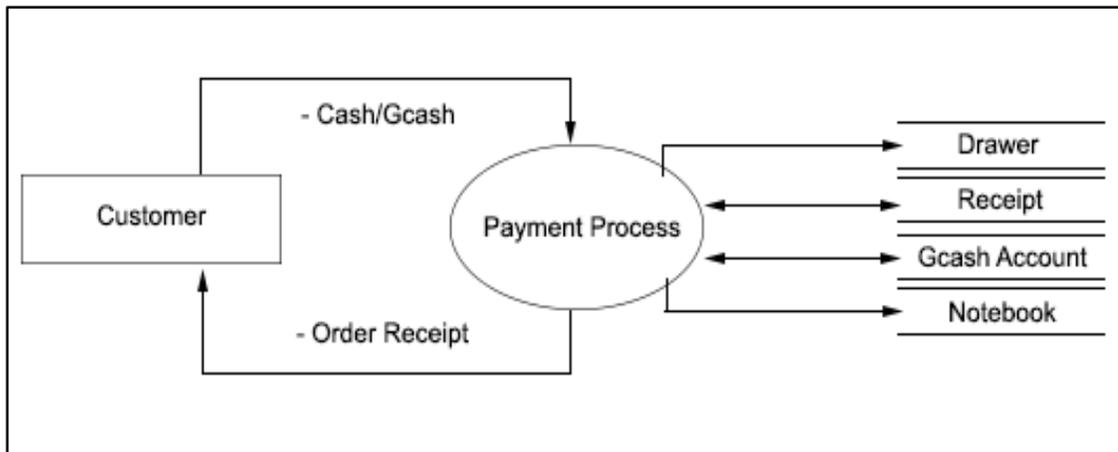


Figure 9. Payment Process (Event 5)

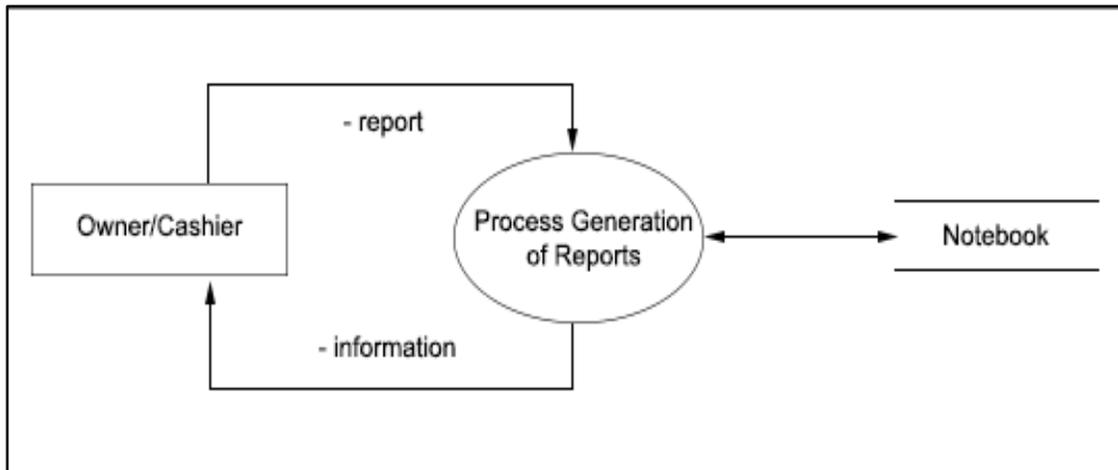


Figure 10. Process of Generation Reports (Event 6)

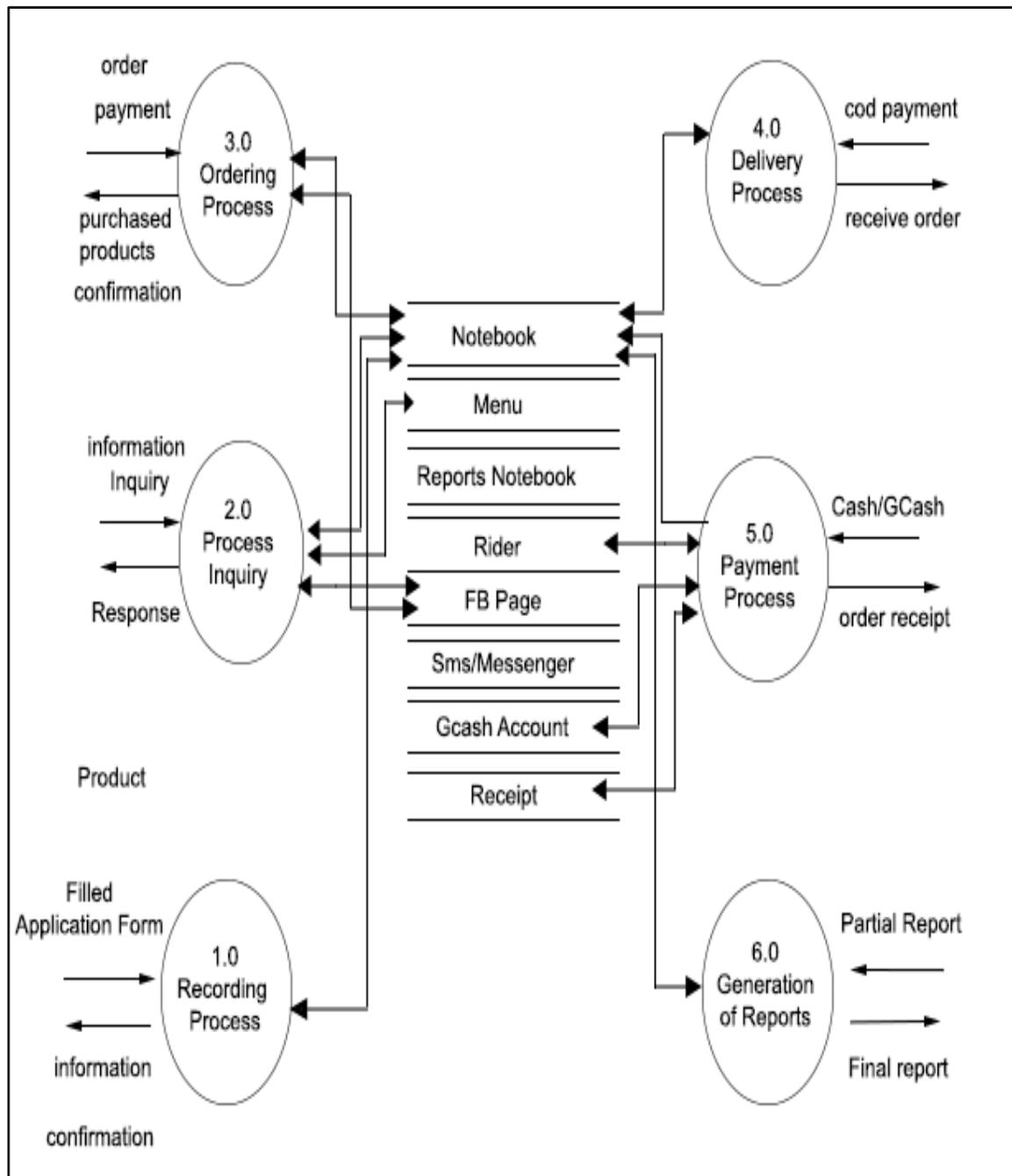


Figure 11. Top Level of Present System

Needs of the Existing Operation

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

1. Adopt an online ordering system for fast and efficient data management.
2. A way to help customers save time so they do not have to wait in queues to get the food.
3. Widen the coverage of advertisement method in a more interactive, convenient and efficient way.
4. Provide electronic reporting to serve the strategic management of the system.

Online Ordering System of TEAmarah and Snacks

The needs of the present system serve as the basis for the development of the features of the Online Ordering System of TEAmarah and Snacks of Poblacion, Pilar, Bohol. This study was expected to address the problems encountered in the present system.

A. Order

The customers inquire for the availability of the product that he or she wishes to purchase on the branch he or she is near to. When the customer finalizes his or her order, the system will automatically receive the order, then the employees will automatically prepare the order and set it ready for delivery by a rider.

B. Administration

Before accessing the system, each of the authorized users must have an individual account that would require a username and a password for security purposes of the system. This will be verified if the inputs are matched from the accounts table on the database. Accounts were classified into three, namely, manager/owner, cashier and customer. Each has the corresponding required information.

C. Payment

The customer can pay over the counter, cash on delivery or using Gcash account. Upon payment, they will be provided with a receipt, or shown a screenshot of their order transaction as proof of payment.

D. Advertisement

This allows TEAmarah to promote their business by adding new items to their menu and showcase their specialties.

E. Reports

The system can generate reports for the most saleable products in a month. And also, it can generate sales reports.

Use Case Diagram

In software engineering, a use case is a list of actions or event steps typically defining the interactions between a role (known in the Unified Modelling Language as an actor) and a system to achieve a goal. The actor can be a human or other external systems. The detailed requirements may then be captured in the Systems Modelling Language (SysML) or as contractual statements.

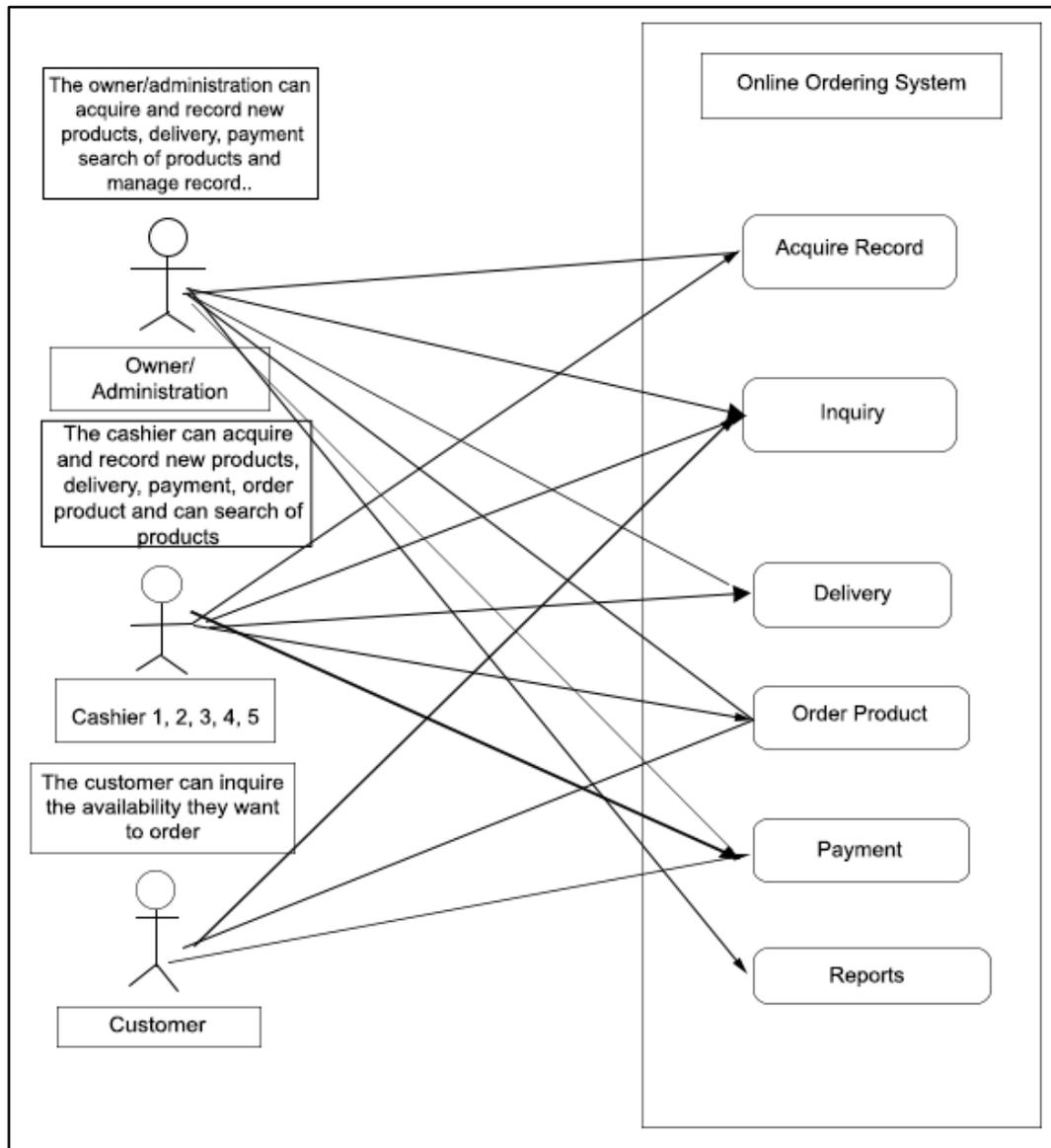


Figure 12. Use Case Diagram of Online Ordering System of TEAmarah and Snacks Poblacion, Pilar, Bohol

Use Case Narrative

Use case narrative describing a use case that requires both frame context of the use case and describe the dialog between the user (actor or use case) and then use case. In every use case narrative there are pre-conditions, process and post condition.

Table 4. Use Case 1 Narrative – Acquire Record

Acquire Record (UC1)	
Scope Level Goal in Context	Online Ordering System TEAmarah User Goal Present a menu from which one can select and/or record and/or view product, order, customer information and register.
Primary Actors	Owner, Cashier and Customer Owner: Wants to enter and manage the product, order, and purchase information and customer information. Cashier: Wants to enter and manage the order, purchase information and customer information. Customer: Wants to enter and select and/or view product information.
Preconditions	Enter the required information. Owner stores product and customer information and view order and purchase information. Cashier stores customer information and view order and purchase information. Customer stores customer information and view product and order information. Online Ordering System
Success Guarantee	Successfully inquire information
Main Success Scenario:	
Owner and Cashier:	Selects the add product button then fill up the information asked. Selects the product option then search for desired information.
Customer:	Select the register button then fill up the information asked.

Table 5. Use Case 2 Narrative – Inquiry

Inquiry (UC2)	
Scope Level Goal in Context	Online Ordering System TEAmarah User Goal Present a menu from which one can view available product and view order information
Primary Actors	Customer Customer: Wants to enter and view the available product, product information and order information.

.....

Preconditions	Enter the required information. Customer: Select product on the menu then select the product to view product information.
Success Guarantee	The customer successfully log in to the system and view product information
Main Success Scenario:	
Customer:	Selects the product for the menu and view for desired product information.

Table 6. Use Case 3 Narrative – Delivery

Delivery (UC3)	
Scope Level Goal in Context	Online Ordering System TEAmarah User Goal Present a table from which can manage database records and view report
Primary Actors	Customer, Delivery Person Customer: Wants to receive orders to be deliver by the delivery person and give payment. Delivery Person: Wants to deliver customers' orders, receive payment and confirm the delivery transaction.
Preconditions Triggers	Enter the required information Customer: Select payment method. Wait for the order to be delivered by the delivery person. Delivery Person: Deliver customers order and receive payment.
Success Guarantee	Successfully log in to the system and wait for the products to be delivered
Main Success Scenario:	
Customer:	Select payment method. Wait for the order to be delivered by the delivery person.
Delivery Person:	Will deliver customers order and receive payment and will confirm the delivery transaction.

Table 7. Use Case 4 Narrative – Ordering

Ordering (UC4)	
Scope Level Goal in Context	Online Ordering System TEAmarah User Goal Present a menu from which one can order available product and view order information
Primary Actors	Owner, Cashier and Customer Owner: Wants to enter and view available product, product information, order product and view order detail. Cashier: Wants to enter and view available product, product information, order product and view order detail. Customer: Wants to enter and view available product, product information, order product and view order detail.
Preconditions	Enter the required information. Owner: Check and process all customers orders. Cashier: Check and process all customers orders in the assigned branch. Customer: Select product from the menu and select product to add to cart then choose payment method click place order and view order detail. Online Ordering System:
Success Guarantee	Successfully log in to the system and can order products.
Main Success Scenario:	
Owner:	Check and process all customers' orders.
Cashier:	Check and process all customers' orders in the assigned branch.
Customer:	Select product from the menu and select product to add to cart then choose payment method click place order and view order detail.

Table 8. Use Case 5. Narrative – Payment

Payment (UC5)	
Scope Level Goal in Context	Online Ordering System TEAmarah User Goal Owner & cashier provide customer with payment options and accepts his payment.

Primary Actors	Owner, Cashier, Delivery Person, & Customer Owner & Cashier: Want to give customer payments options (COD & GCash). Delivery Person: Accept the customers payment. Customer: Wants to pay his order with his chosen payment option.
Preconditions Triggers	Enter the required information Owner Cashier: Provides customer with payment option which he has to fulfill upon receiving his order. Delivery Person: Accept the customers the exact payment. Customer: Pick his desired payment option and pays the exact amount of his order to the delivery person.
Succes Guarantee	Successfully log in to the system and wait for the products to be delivered and give payment.
Main Success Scenario:	
Owner & Cashier: Delivery Person: Customer:	Provide customer with payment option which he has to fulfill upon receiving his order. Accept the customers the exact payment. Pick his desired payment option and pays the exact amount of his order to the delivery person.

Table 9. Use Case 6 Narrative – Report

Report (UC6)	
Scope Level Goal in Context	Online Ordering System TEAmarah User Goal Present a table from which can manage database records and view report
Primary Actors	Owner, Cashier Owner: Wants to view product information for the sales in the web and in the database. Cashier: Wants to view the product information for the sales in the web.

Preconditions	Enter the required information Owner: Select view report button and then you can easily view the reports. Cashier: Select view report button and then you can easily view the reports.
Success Guarantee	Successfully log in to the system and provide reports.
Main Success Scenario:	
Owner:	Select product on the menu then manage product detail.
Cashier:	Select product on the menu then manage product detail.

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 involved in recording and retrieval, inquiry, as well as other operations involved. The purpose of the design was 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 as system in terms of their actions, functions, and capabilities.

Class Diagram

A class diagram models the static structure of a system. It shows relationships between classes, objects, attributes, and operations.

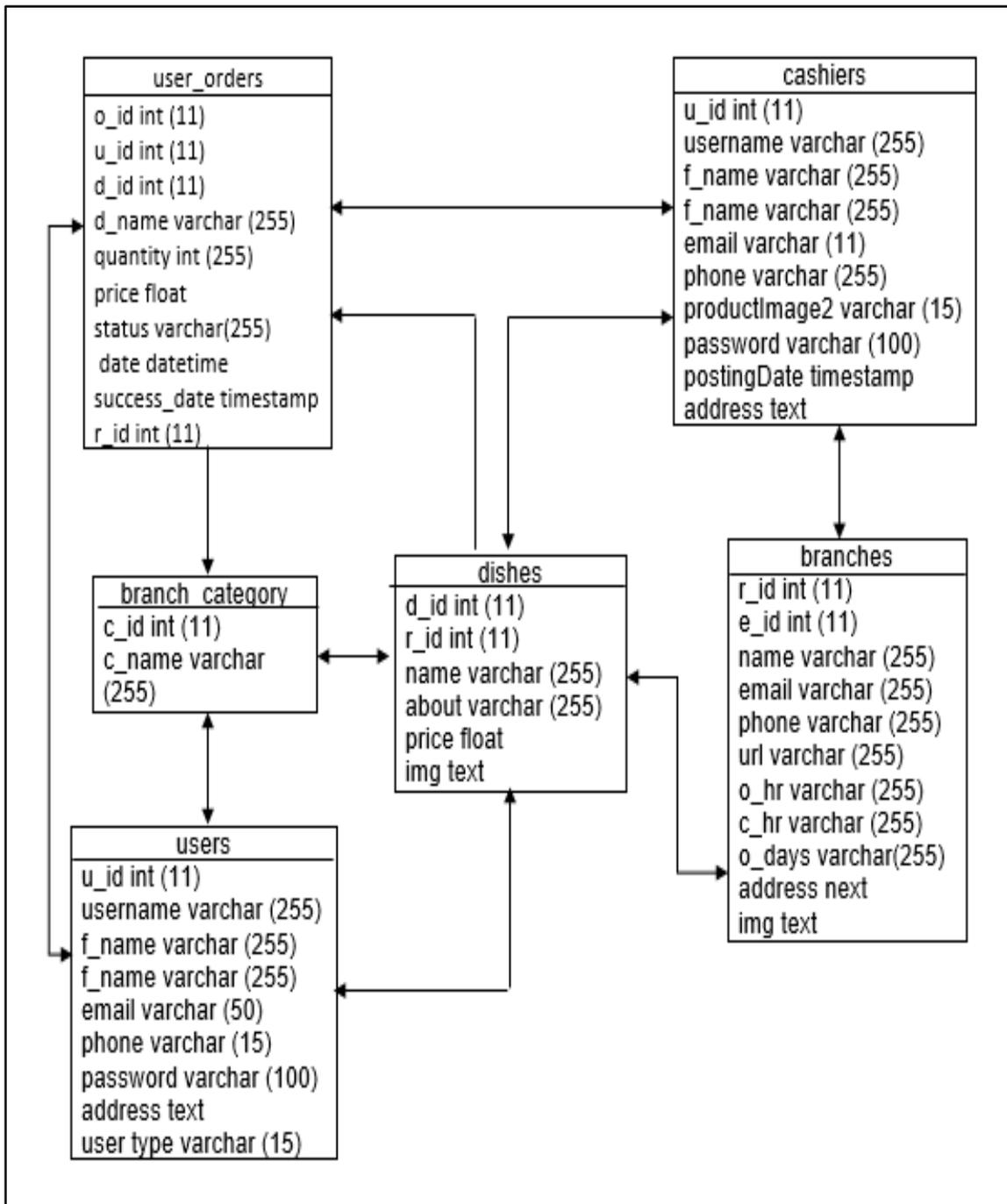


Figure 13. Class Diagram of the Study

Data Structure

The data structure is a way of collecting and organizing data in such a way that operations on these data can be performed in an effective way. The data structure is about rendering data elements in terms of some relationship, for better organization storage. These are structures programmed to store data so that various operations can be performed easily. The following tables below shows the data structure of the developed system where the important data and information needed by the system are stored.

Table 10

Data Structure used for Cashier

Field	Field Name	Type	Width	Description
1	u_id	int	11	Cashier ID
2	username	varchar	50	username
3	f_name	varchar	50	Firstname
4	l_name	varchar	50	Lastname
5	email	varchar	50	Email
6	phone	varchar	12	Phone
7	password	varchar	50	Password
8	address	varchar	50	address

Table 11

Data Structure used for Teamarah Products

Field	Field Name	Type	Width	Description
1	d_id	int	11	Products ID
2	r_id	varchar	20	Restaurant id
3	name	varchar	20	Dish name
4	about	varchar	500	Dish Description
5	price	varchar	5	Price
6	image	text		Image

Table 12
Data Structure used for adding branches

Field	Field Name	Type	Width	Description
1	r_id	int	11	Branches ID
2	c_id	int	11	Product Id for
3	name	varchar	30	Shop name
4	email	varchar	50	Shop email
5	phone	varchar	50	Shop number
6	url	varchar	50	Shop website
7	o_hr	varchar	50	Open hour
8	c_hr	varchar	50	Close hour
9	o_days	varchar	50	Open days
10	address	varchar	100	Shop Address
11	img	text		image

Table 13
Data Structure used for Users

Field	Field Name	Type	Width	Description
1	u_id	int	11	Customer ID
2	username	varchar	11	username
3	f_name	varchar	30	first name
4	l_name	varchar	30	last name
5	email	varchar	30	email
6	phone	varchar	30	phone
7	password	varchar	30	password
8	address	varchar	30	address
9	usertype	varchar	15	user type

Table 14
Data Structure used for taking Users Order

Field	Field Name	Type	Width	Description
1	customer_id	int	11	Customer Order
2	customer_fname	varchar	20	Customer
3	customer_mname	varchar	20	Fullname
4	customer_lname	varchar	20	Customer Middle
5	customer_contact	varchar	20	Name
6	customer_email	varchar	20	Customer
7	customer_user	varchar	11	Lastname
8	customer_pass	varchar	100	Customer

Table 15
Data Structure used for product category

Field	Field Name	Type	Width	Description
1	c_id	int	11	Category Id
2	c_name	varchar	50	Category Name

Program Hierarchy

The diagram below is a simple hierarchy chart, showing the establishment's functions and activities of the system. It is described as a visual representation of a system of hierarchy and can also be referred to as a structure chart. Roles, ranks or positions are clearly laid out in an illustrated format that depicts the relationship between the elements. The top of the chart is generally reserved for the most important or significant part of the system of hierarchy. Cascading down from the top are the other components of the system hierarchy.

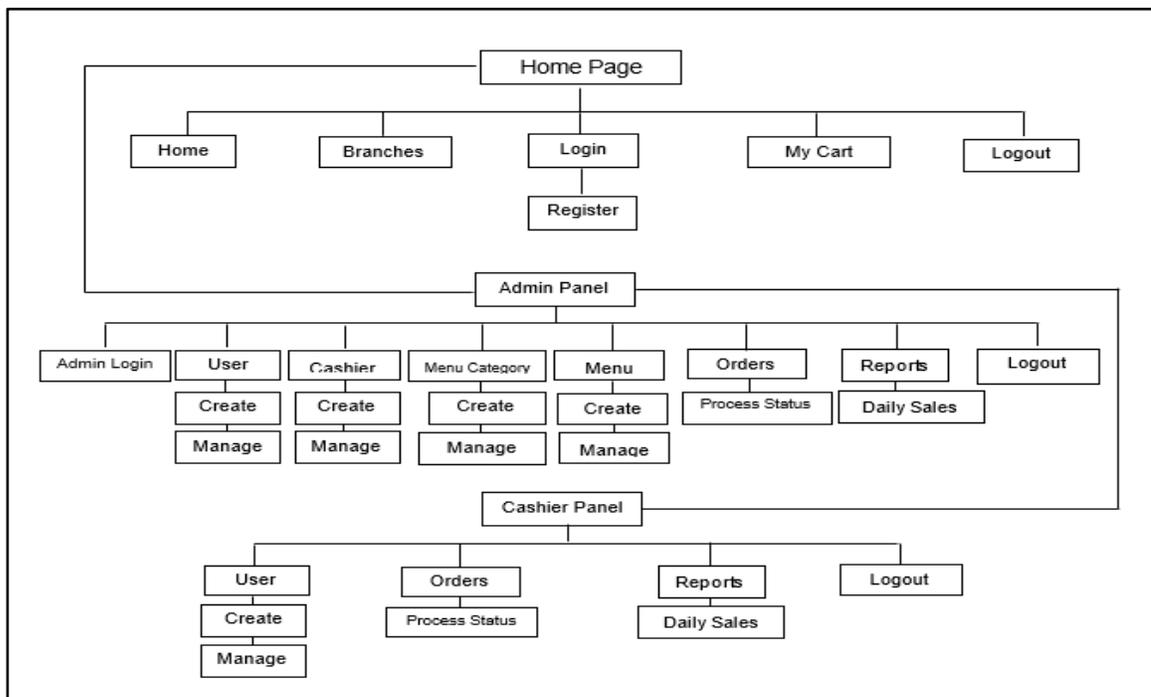


Figure 14. Program Hierarchy

Functional Requirements

A functional requirement defines a function of a software system or its component. A function is described as a set of inputs, behavior, and outputs. Functional requirements may be calculations, technical details, data manipulation and processing and other specific functionality that define what a system is supposed to accomplish. The functional requirements were formulated with the use of a related Online Ordering System of TEAmarah and Snacks, Pilar, Bohol in obtaining the requirements. A working prototype was developed to strategically capture requirements through constant communication with the cashier and owner of the TEAmarah and Snacks.

The functionalities mentioned are based on existing standard requirements of Online Ordering System of TEAmarah and Snacks Poblacion, Pilar, Bohol with the approval and coordination from the owner, as follows.

Acquired Record

FREQ 1: The system must allow the owner to add new products.

FREQ 2: The system must allow owner, cashier and customer to directly access the system.

FREQ 3: The system must allow the owner to provide a record for most sold products.

FREQ 4: The system must record each transaction into the database.

Ordering

FREQ 5: The system should allow the customer to place an order.

FREQ 6: The system should allow the owner and cashier to manage orders.

Delivery

FREQ 7. The system allowed the rider to deliver the ordered products.

FREQ 8. The system authorized the rider to give receipt to the customer.

Payment

FREQ 9. The system process payment of the customers.

FREQ 10. The system received payment from the customers.

Administration

FREQ 11: Access to the system must be password protected.

FREQ 12: Access to the system username and password should be matching.

Generation of Reports

FREQ 13. The system should provide electronic reports for the decision support of the owner.

Non- Functional Requirements

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

1. The system must have protection from unauthorized users by using a username and password
2. The system should be used in every version of the Microsoft Windows operation System.
3. The system must be accessible at all times.

4. The system should run with the hardware and software specifications.
5. The system must be user-friendly, clear, and simple to operate.

TEST CASES

A test case is a set of condition or variable 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 is also a set of input value, execution preconditions, expected result and executions, developed for a particular objective or test conditions, such as to exercise a particular program path or to verify compliance with the specific requirement. These are the test case scenarios conducted during the acceptance testing. The test plan is to let the user use the system and follow the instructions in each test case to test the developed system. The system perform the expected result in each test case in order to be consider successful.

The “User account login” Test case 1 module for administration/owner wherein it is expected to access all features in the system. Test case 2 is a module for cashier wherein it is expected to access some feature of the system, not including adding of product and their co- cashier. Test case 3 is a module for customer wherein it is expected to order their products. The “Register Cashier/Customer” Test case 1 is a module for adding cashier wherein it is expected to save in the database, and only the admin/owner can add them. Test case 2 is a module for register customer wherein it is expected to save in the database. Test case 3, updating their information. Test case 4 is a module for deleting their information in the database. The “Product Management” Test case

1 is a module for adding new product information in the database. Test case 2 is a module for updating product information in the database. Test case 3 is a module for deleting items wherein it is expected to delete product information in the database.

The “Order/ Purchase Management” Test case 1 is a module to view and confirm the order of their member (cashier) and customers wherein it is expected to confirm the pending order status in the database.

Finally, the “Reports” Test case1 is a module for generating a sales report wherein it is expected to generate a daily sales report.

The following are the details for each test case:

User account login:

Test case: 1

Module: Admin account

Severity: 1

Instructions:

1. On the URL type teamarah.bisubilar.org/TEAmarah.
2. Input username and password
3. Then click the option “login” button.

Expected Result:

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

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

Test Case: 2

Module: Cashier Account

Severity: 1

Instructions:

1. on the URL type teamarah.bisubilar.org/TEAmarah
2. Input user name and password.
3. Then click the option “login” button.

Expected Result:

1. User can access some features of the system, not including adding new products and their co-cashier.

Clean-up Click “logout” button to close module.

Test Case: 3

Module: Customer account.

Severity: 1

Instructions:

1. On the Webpage click login.
2. Then click the option “register” button.
3. Fill in the form correctly then click “create account”
4. Input username and password then click “log in”

Expected Result:

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

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

Test Case: 4

Module: Deleting customer account

Severity: 1

Instructions:

1. Click the trash icon the right side of the name you want to delete.

Expected result:

1. The customer was successfully deleted

Module: Product Management:

Test Case: 5

Module: Product information Management for “Adding new product” command.

Severity: 1

Instructions:

1. On the main menu, click “Menu”. Then select “create menu” in the submenu.
2. Input the detailed product information then click “submit”
3. Click the “Add” button.

Expected Result:

1. The product should be successfully saved.
2. The newly added product information should be displayed.

Test Case: 6

Module: Product Information Management for “Update” command

Severity: 1

Instructions:

1. On the right side of the displayed products, click the pencil icon for the product you want to change.
2. Edit the field you want to change.

3. Click the option “make changes” button.

Expected Result:

1. The product should be successfully updated.

Test case: 7

Module: Product information Management for “Deleting” command

Severity: 1

Instructions:

1. On the right side of the displayed product, click the trash icon.
2. A dialogue box will display to confirm the item you want to delete.

Expected Result:

1. The item should successfully be deleted.

Report Management:

Test Case: 8

Module: Sales Report

Severity: 1

Instructions:

1. On the main menu, click “Report” Then select “Most Sales” in the submenu.

Expected result:

1. Most saleable product of the day will successfully be displayed.

Customer Order/Purchase.

Test Case: 9

Module: Add to cart product.

Severity: 1

Instructions:

1. Input username and password, click "log in"
2. Click "order now"
3. Select the branch you are near to.
2. Select the product you want to add to the cart and also the number of product you want to order.
4. You can update or delete the product in you cart.
5. Then click "Checkout" button.

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

Test Case: 10

Module: Order/Purchase product

Severity: 1

Instructions:

1. After you click the "checkout" button in your add to cart select the mode of payment. Then click "Place Order"

Expected Result:

1. Then product you want will be successfully ordered.

Test Case: 11

Module: Delivery

Severity: 1

Instructions:

1. Click the for delivery button in rider panel accept the delivery and confirm it.

Expected Result:

1. The product will deliver by the rider to the customers.

Test Case: 12

Module: Payment

Severity: 1

Instructions:

1. Select payment method either over the counter or COD.

Expected Result:

1. Received receipt and pay.

Technical Requirements

In this generation, the evolution of computers does not stop. It has been a part of the learning experience people's lives. A computer can serve as an essential part of the learning experience in business, education, in the government office, or at home.

People select hardware and software components as well as the identification of people in operation. This is necessary for proper usage so that the system could be used to its fullest capacity.

The hardware component refers to the physical part of the computer processing unit (CPU). This includes the tower casing, microprocessor, hard disk, RAM, motherboard, UPS, monitor, mouse, and keyboard. However, there were only three components that basically facilitate the processing of data. These components are the microprocessor, hard disk drive (HDD), and the Random

Access Memory (RAM). Thus, these components were just specified in the presentation.

Software refers to the programs that the computer machine can read and perform with the desired instruction. It is a set of instruction that the computer translates into a machine-readable format so that it can be understood by a human.

People are the users who would operate the programs installed on the computer. The user should be capable of operating the system to have an effective result in processing information.

Minimum Hardware Specification

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

Component	Specification
Laptop/Desktop Android Device iOS Device	Runs with any laptop/desktop with internet connection on any internet browsers

Minimum Software Specification

The Online ordering System of Teamarah and Snacks requires various software to function properly. This software was enumerated below with its corresponding specification. The specification, as provided, was based on the specification of the computer units utilized during the development of the system.

Item	Specification
Operating System	Runs only devices with a browser application and in any operating system.
Internet Browser	Any internet Browser

Hosting and Implementation

Web hosting is a type of Internet hosting service that allows individuals and business to make their website available on the internet. Web hosting companies provides clients with space on a server on a server owned or leased for use by clients, as well as providing internet connectivity, typically a data center, while implementation is the programming and deployment of a technical specification or algorithm as a program, software component, or other computer system.

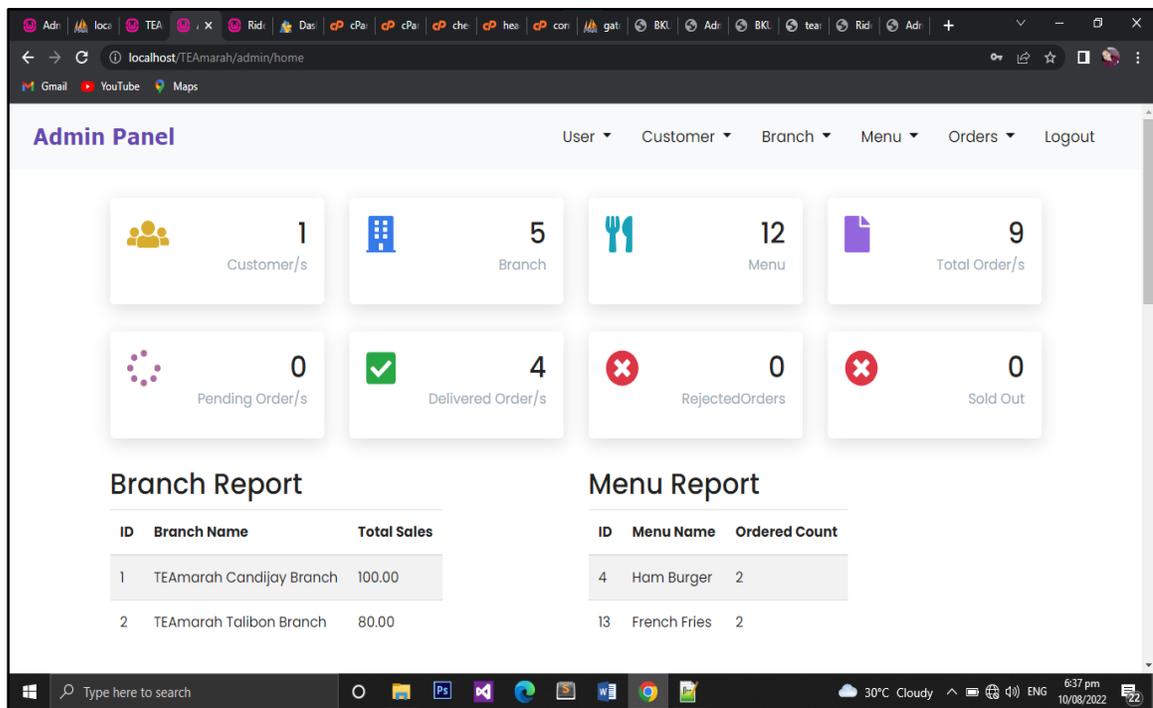
In order to host and apply the built system, the researchers used domain and web hosting owned by BISU-Bilar, allowing the upload of the establishment's database and web page for testing. The researchers were granted access to the TEAmarah and Snacks of Poblacion, Pilar, Bohol as well as hosting for websites on virtual servers.

Individuals and businesses can use web hosting to make their website available via World Wide Web. The system could be accessed through <http://teamarah.bisubilar.org/TEAmarah/>.

Business Intelligence

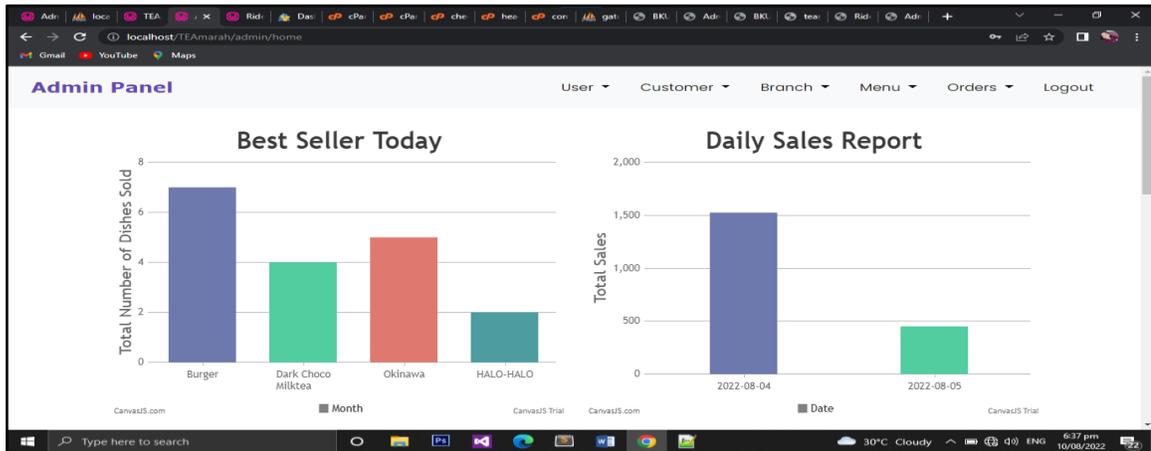
Business intelligence means the ability of an organization to collect, maintain, and organize knowledge. It aims to support better business techniques and decision-making with solutions that take Business Intelligence (BI) to a whole new level and get the right information. The system used the enterprise reporting, particularly tabular type of business intelligence reporting, the system integrated business intelligence specifically in the query and reporting component. Each report is generated by joining more than one table in the connectivity of the database. All the reports below are dynamic and will update in real if there are any transactions to be done by the users. This ensures accuracy and consistency if the data in the report.

Preview 1 shows the daily sales report of Teamarah and Snacks.



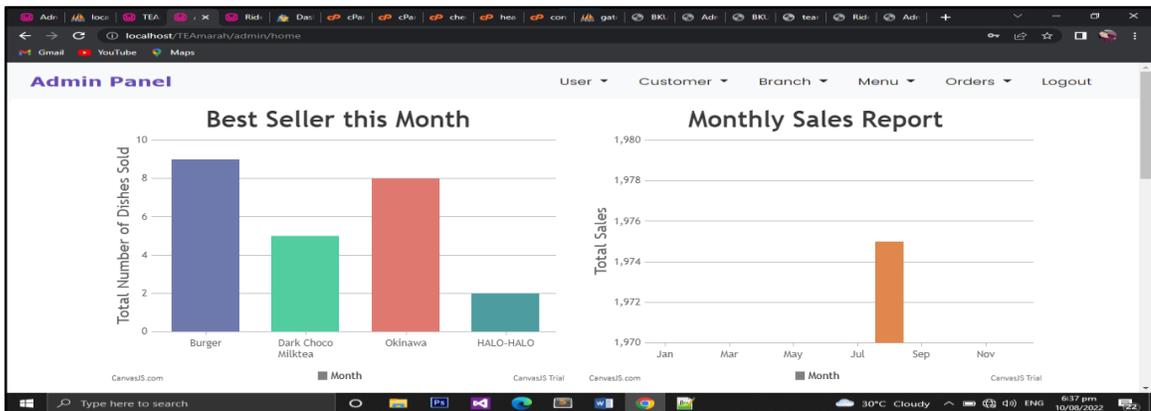
Preview 1. Summary report of Total Sales every Branch and Dishes Report.

Preview 2 shows the best seller of the day and daily sales report.



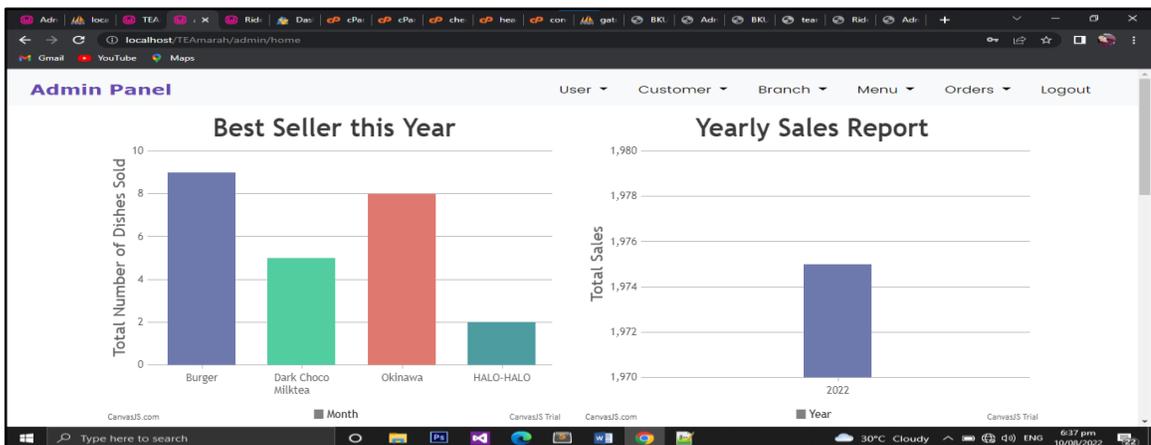
Preview 2. Daily Sales Report

Preview 3 shows the best seller of the month and monthly sales report.



Preview 3. Monthly Sales Report

Preview 4 shows the best seller of the year and yearly sales report.

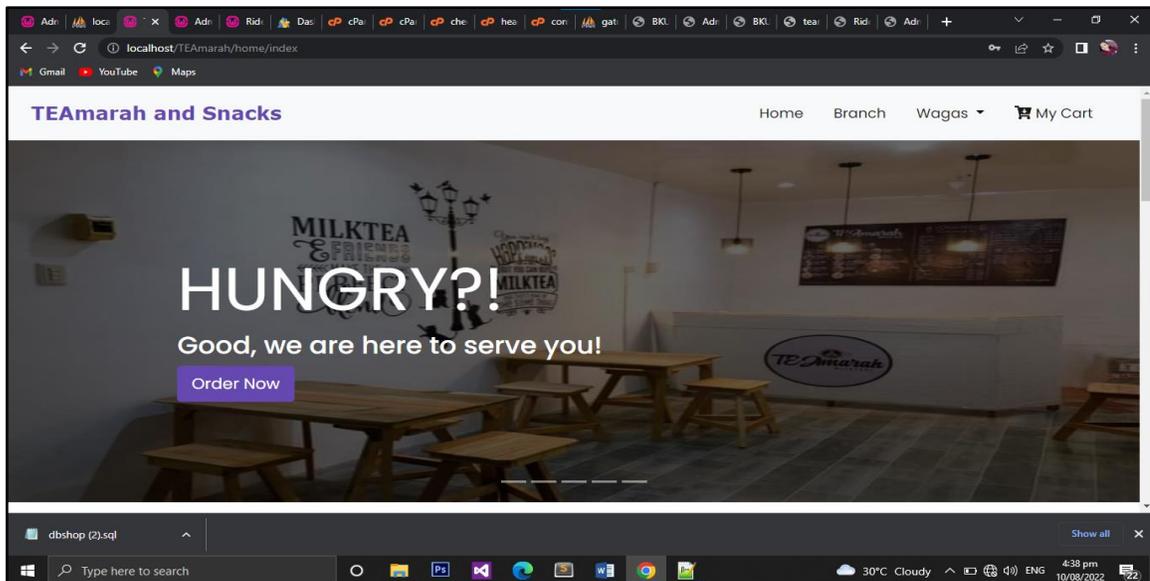


Preview 4. Yearly Sales Report

Screen Layout

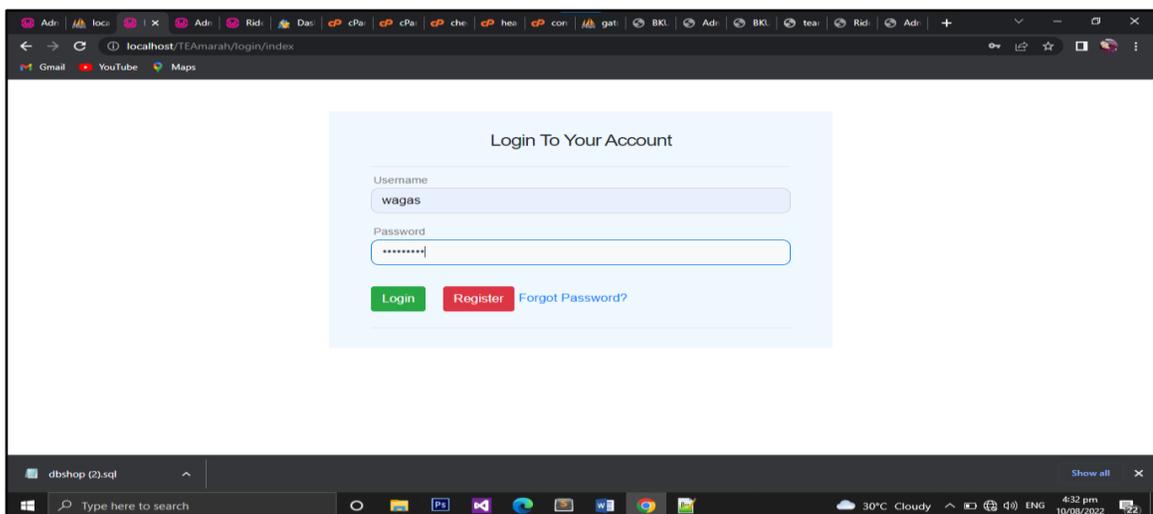
Screen Layout is one of the attributes of the system's user-friendliness. It should be designed in such a way to navigate the system quickly and easily, and it should provide clear recognition of the task of the users need to perform.

Preview 5, shows the homepage of the website.



Preview 5. Homepage of the website

Preview 6 shows the security log in of the system by admin



Preview 6. Security Login

Preview 7 shows on register account

localhost/TEAmarah/singup/index

Create Your Account

Enter Username:

Enter First Name:

Enter Last Name:

Email:

Password:

Contact:

Address:

[Create Account](#)

Already registered? [Login Now!](#)

dbshop (2).sql

Type here to search

30°C Cloudy 4:35 pm 10/08/2022

Preview 7. Register Account

Preview 8 shows the account forgot password

localhost/TEAmarah/forgot/index

Find Your Account

Please enter your email and we'll send you a recovery link.

Email:

[Send Recovery Link](#)

Already registered? [Login Now!](#)

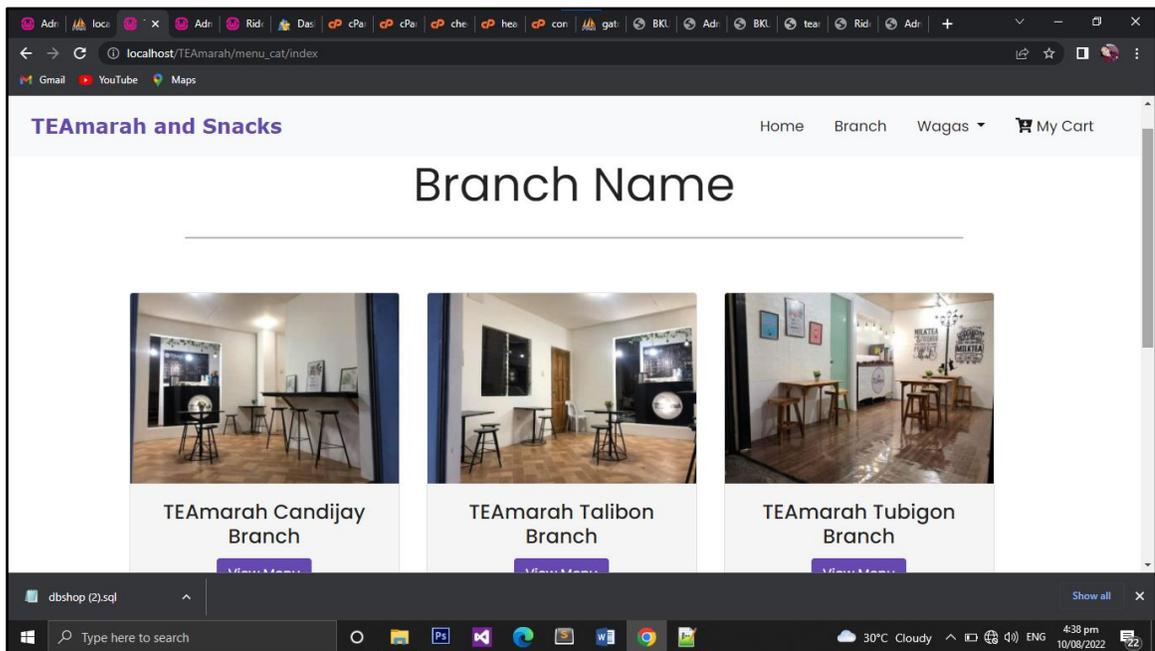
dbshop (2).sql

Type here to search

30°C Cloudy 4:37 pm 10/08/2022

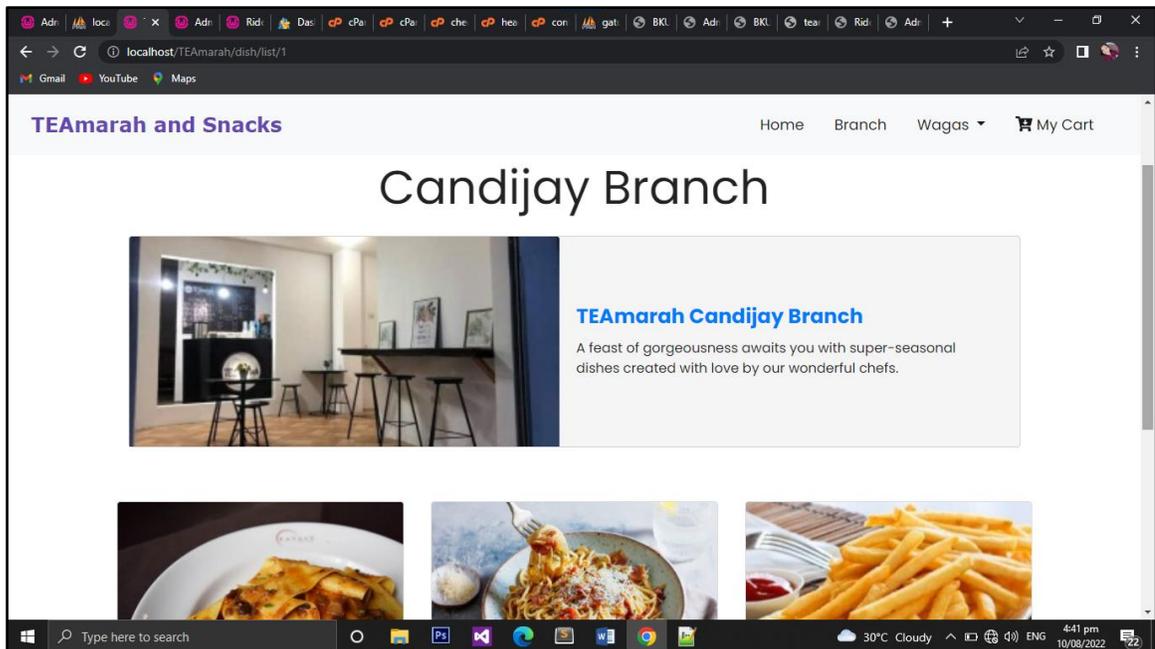
Preview 8. Forgot Password

Preview 9 shows the branch name



Preview 9. Branch Name

Preview 10 shows the menu in every branch



Preview 10. Branch Menu

Preview 11 shows the food you added to cart

The screenshot shows the checkout page for 'TEAmarah and Snacks'. The page is titled 'Order Preview' and 'Shipping Details'. The order preview table shows one item: French Fries, priced at Php50, with a quantity of 1 and a subtotal of Php50. The shipping details include a delivery date of 10/08/2022, a delivery time of 06:42 pm, and an address of Buenasuerte, Pilar, Bohol. The delivery fee is Php 20.00, and the payment method is COD. The grand total is Php 70.00. There are buttons for 'Back to cart' and 'Place Order'.

Dish	Price	Quantity	SubTotal
 French Fries	Php50	1	Php50

Shipping Details:

- Delivery Date: 10/08/2022
- Delivery Time: 06:42 pm
- Address: Buenasuerte, Pilar, Bohol
- Delivery Fee: Php 20.00
- Payment Method: COD
- Grand Total: Php 70.00

Buttons: < Back to cart, Place Order >

Preview 11. Add to Cart

Preview 12 shows all the recent orders

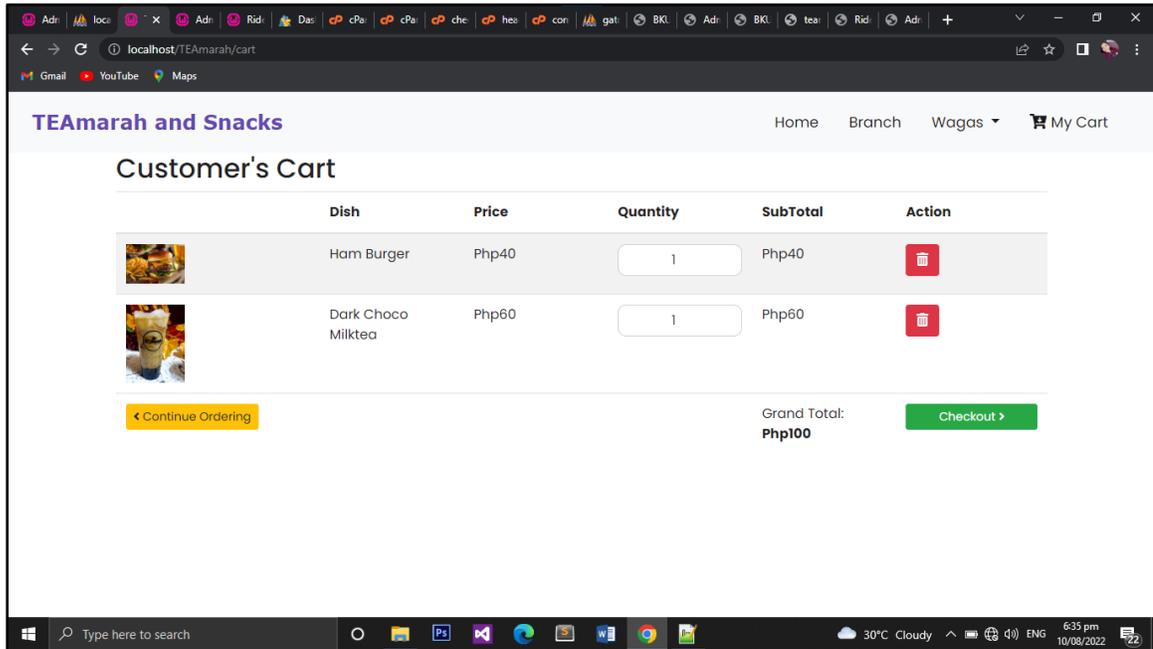
The screenshot shows the 'Recent Orders' and 'All Orders' sections of the TEAmarah and Snacks orders page. The 'Recent Orders' section displays a table with columns for Reference #, Price, Status, Total, Order Date, and Action. The 'All Orders' section displays a table with columns for Date, Reference #, Price, and Action.

Reference #	Price	Status	Total	Order Date	Action
PhppSqTEwZrtY	Php60.00	Dispatch	80.00	2022-08-09 10:09:00	View Order Cancel
PhpnzWbVGtsBU	Php80.00	Dispatch	100.00	2022-08-11 11:40:00	View Order Cancel

Date	Reference #	Price	Action
10-Aug-2022	P7PP2gchD9	Php70.00	Delivered Invoice
10-Aug-2022	bs8Qwf55Me	Php70.00	Delivered Invoice

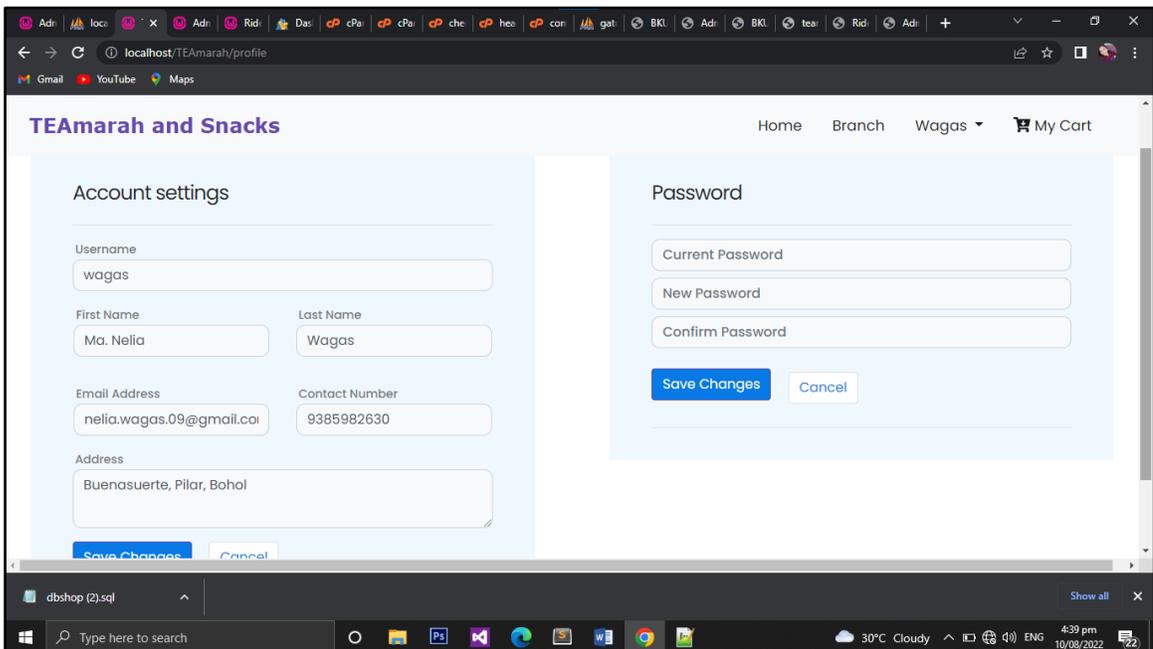
Preview 12. Recent Orders

Preview 13 shows the list of menu you added to customer's cart



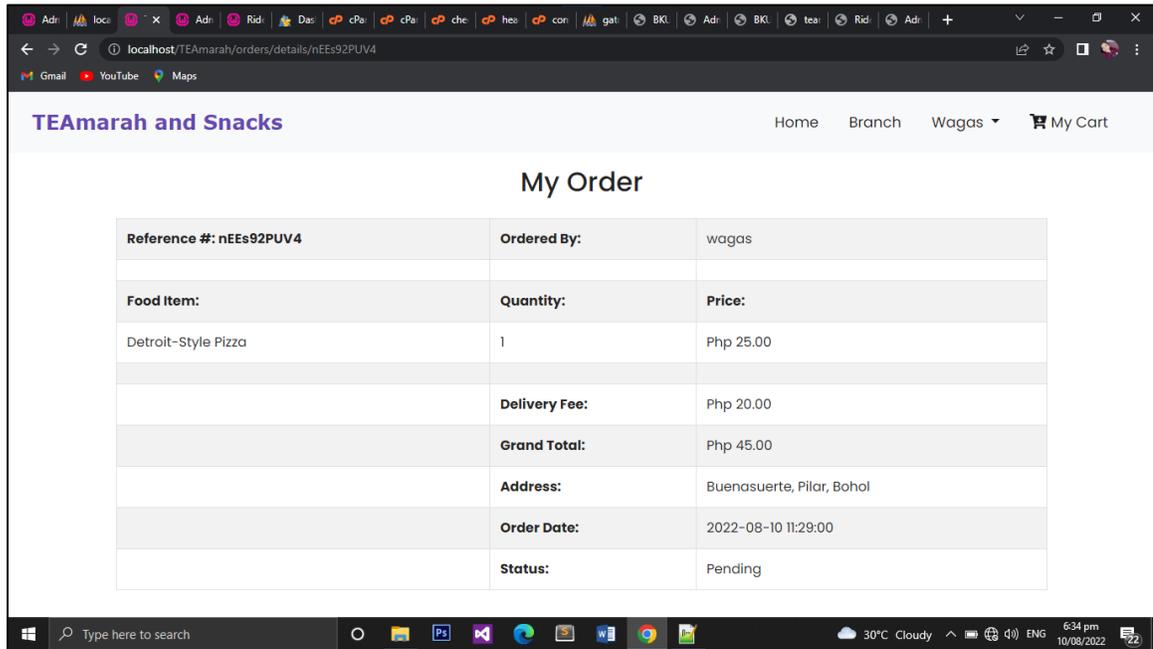
Preview 13. My Cart

Preview 14 shows the customer's profile



Preview 14. Customer's Profile

Preview 15 shows the details of customer's order

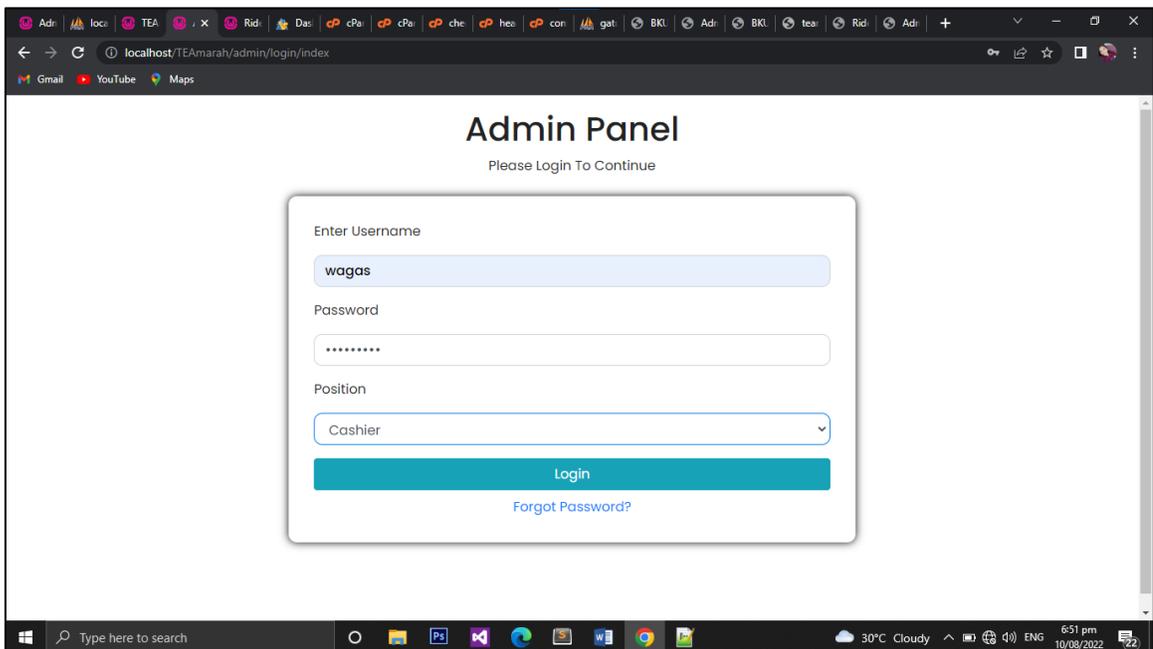


The screenshot shows a web browser window with the URL `localhost/TEAmarah/orders/details/nEeS92PUV4`. The page title is "TEAmarah and Snacks" and the navigation bar includes "Home", "Branch", "Wagas", and "My Cart". The main content is titled "My Order" and contains a table with the following data:

Reference #: nEeS92PUV4	Ordered By:	wagas
Food Item:	Quantity:	Price:
Detroit-Style Pizza	1	Php 25.00
	Delivery Fee:	Php 20.00
	Grand Total:	Php 45.00
	Address:	Buenasuerte, Pilar, Bohol
	Order Date:	2022-08-10 11:29:00
	Status:	Pending

Preview 15. View Orders

Preview 16 shows the users login panel



The screenshot shows a web browser window with the URL `localhost/TEAmarah/admin/login/index`. The page title is "Admin Panel" and the subtitle is "Please Login To Continue". The login form contains the following fields and elements:

- Enter Username:** Input field with the value "wagas".
- Password:** Input field with masked characters ".....".
- Position:** Dropdown menu with the selected value "Cashier".
- Login:** A teal button.
- Forgot Password?:** A blue link below the Login button.

Preview 16. Cashier Login

Preview 17 shows the cashier panel

The screenshot displays the 'Cashier Panel' interface. At the top, there are three summary cards: 'Pending Order/s' with a value of 0, 'Delivered Order/s' with a value of 4, and 'Rejected Order/s' with a value of 0. Below these are two reports: 'Branch Report' and 'Menu Report'.

ID	Branch Name	Total Sales
1	TEAmarah Candijay Branch	100.00
2	TEAmarah Talibon Branch	80.00

ID	Menu Name	Ordered Count
4	Ham Burger	2
13	French Fries	2

Preview 17. Cashier Panel

Preview 18 shows all the customer's order in cashier panel

The screenshot displays the 'Cashier Panel' interface with a focus on the 'All Orders' section. It features a search bar and a table listing individual orders with their reference numbers, total amounts, statuses, order dates, and available actions.

Reference #	Total Amount	Status	Order-Date	Actions
nEes92PUV4	Php 65.00	Dispatch	2022-08-10 11:29:00	Process, Invoice, Delete
MAUHESXcfp	Php 80.00	Dispatch	2022-08-11 11:28:00	Process, Invoice, Delete
2cnB66N6UV	Php 90.00	Dispatch	2022-08-11 15:20:00	Process, Invoice, Delete
P7PP2gchD9	Php 90.00	Delivered	2022-08-10 11:04:00	Invoice, Delete
bs8Qwf55Me	Php 90.00	Delivered	2022-08-10 11:00:00	Invoice, Delete
wNXUkdU68t	Php 80.00	Delivered	2022-08-10 10:58:00	Invoice, Delete

Preview 18. Customer's Order

Preview 19 shows the invoice of orders in cashier panel

TEAmarah Ordering System

INVOICE:

Ma. Nelia Wagas
Buenasuerte, Pilar, Bohol
nelia.wagas.09@gmail.com
9385982630

Order Number: #nEEs92PUV4
Order Date: 10-Aug-2022
Delivery Date: 10-Aug-2022

Branch	Menu	Quantity	Price
TEAmarah Tubigon Branch	Detroit-Style Pizza	1	25.00
Sub Total			P25.00
Delivery Fee			P20.00
Total			P45.00

ruffa mae camposo

Preview 19. Order Invoice

Preview 20 shows the rider's login panel

Admin Panel

Please Login To Continue

Enter Username

riders

Password

.....

Position

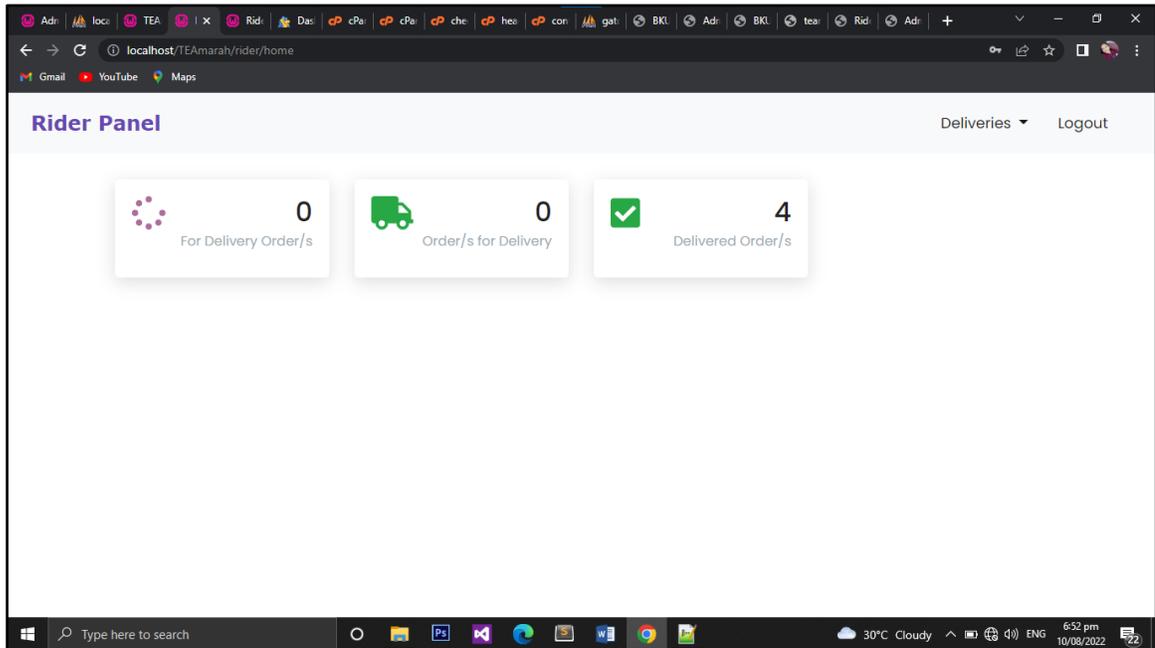
Delivery Rider

Login

[Forgot Password?](#)

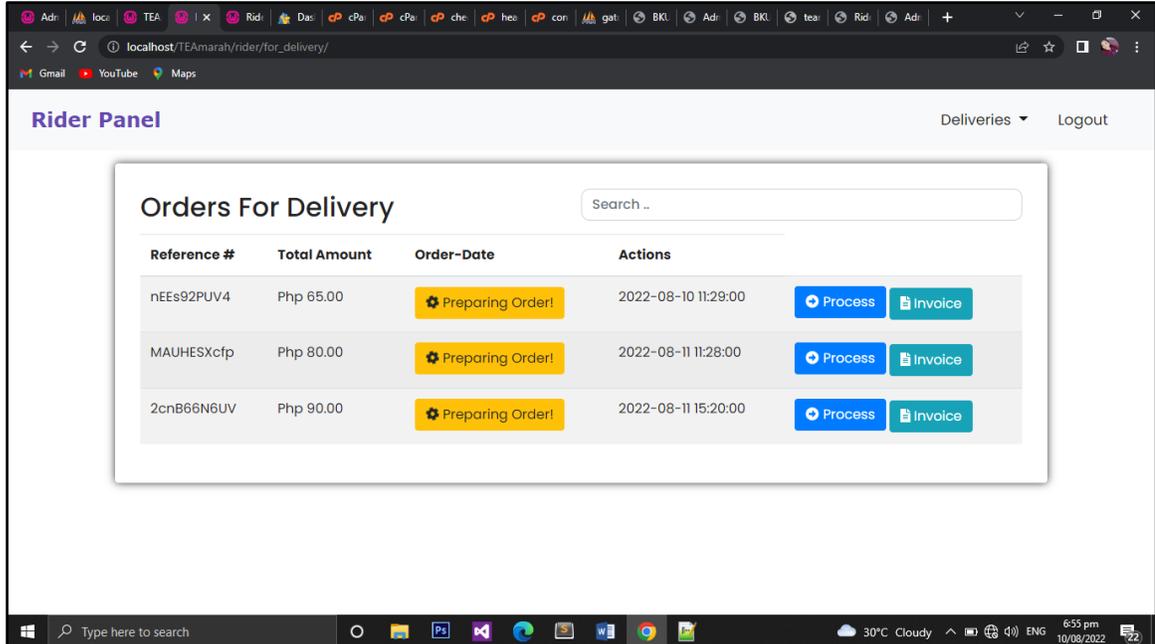
Preview 20. Rider Login

Preview 21 shows the rider's panel



Preview 21. Rider Panel

Preview 22 shows the list of order to be delivered



Preview 22. Orders for Delivery

Preview 23 shows the accepted orders of the rider

The screenshot shows a web browser window with the URL `localhost/TEAmarah/rider/my_delivery/index`. The page title is "Rider Panel" and it includes a "Deliveries" dropdown and a "Logout" link. A green notification banner at the top reads "Order Successfully Accepted for Delivery!". Below this is a section titled "My Delivery" with a search input field. A table lists the delivery orders:

Reference #	Total Amount	Order-Date	Actions
nEes92PUV4	Php 65.00	2022-08-10 11:29:00	Process Invoice

The browser's taskbar at the bottom shows the system time as 6:56 pm on 10/08/2022.

Preview 23. Accept Order

Preview 24 shows the customer's invoice that process by rider

The screenshot shows a web browser window with the URL `localhost/TEAmarah/rider/home/invoice/nEes92PUV4`. The page title is "TEAmarah Ordering System" and it displays an "INVOICE:" for order #nEes92PUV4. The invoice details are as follows:

Customer Information:
 Ma. Nelia Wagas
 Buenasuerte, Pilar, Bohol
 nelia.wagas.09@gmail.com
 9385982630

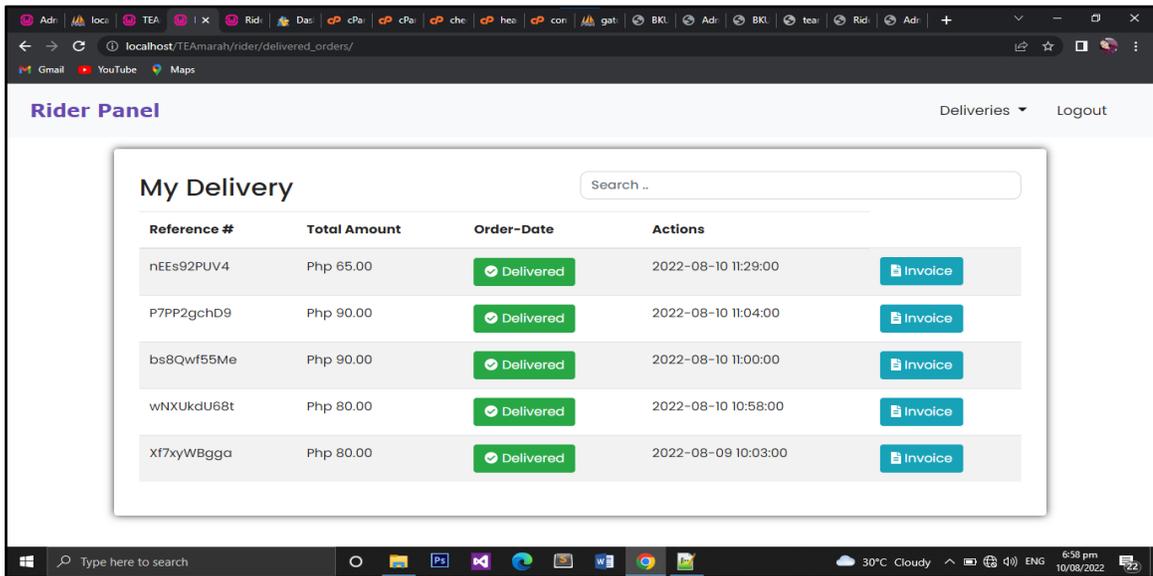
Order Information:
 Order Number: #nEes92PUV4
 Order Date: 10-Aug-2022
 Delivery Date: 10-Aug-2022

Branch	Menu	Quantity	Price
TEAmarah Tubigon Branch	Detroit-Style Pizza	1	25.00
Sub Total			P25.00
Delivery Fee			P20.00
Total			P45.00

At the bottom of the invoice, there is a signature line with the text "rider first rider last". The browser's taskbar at the bottom shows the system time as 6:57 pm on 10/08/2022.

Preview 24. Invoice

Preview 25 shows the list of all delivered orders



The screenshot shows a web browser window displaying a 'Rider Panel' interface. The main content is a 'My Delivery' section with a search bar and a table of delivered orders. The table has four columns: Reference #, Total Amount, Order-Date, and Actions. Each row represents a delivered order with a green 'Delivered' status and an 'Invoice' button.

Reference #	Total Amount	Order-Date	Actions
nEeS92PUV4	Php 65.00	2022-08-10 11:29:00	Delivered Invoice
P7PP2gchD9	Php 90.00	2022-08-10 11:04:00	Delivered Invoice
bs8Qwf15Me	Php 90.00	2022-08-10 11:00:00	Delivered Invoice
wNXUkdU68t	Php 80.00	2022-08-10 10:58:00	Delivered Invoice
Xf7xyWBgga	Php 80.00	2022-08-09 10:03:00	Delivered Invoice

Preview 25. All Delivered Order

Economic Performance Evaluation

In any project, cost-benefits 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 the benefits that give. It enumerates the cost and benefits that would likely be incurred with the proposed automation. It also determines the exact budget of resources that will be used. The purpose of this cost-benefit analysis is to evaluate the cost benefits that will result from the development and operation of the new system.

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

Table 16

Initial Investment and Annual Operating Cost

Items	QTY	Unit	Unit Price	Total Amount
A. Hardware				
Computer Package (hardware requirements, software installation such as operating system, etc.)	5	Sets	₱ 8,900.00	₱ 44,500.00
Printer				
Internet Service Provider (e.g. LTE Broadband, etc.)	5	Unit	₱ 10,000.00	₱ 50,000.00
	5	Piece	₱ 12,000.00	₱ 60,000.00
Total Annual Operating Cost				₱154,500.00
B. Software				
Software Development	1	Lot	₱ 10,000.00	₱ 10,000.00
Software Licensing	1	Lot	₱ 8,000.00	₱ 8,000.00
Software Training	5	Man-	₱ 5,000.00	₱ 5,000.00
Installation	1	days	₱ 1,000.00	₱ 1,000.00
System Maintenance	4	Piece	₱ 1,500.00	₱ 1,500.00
Hosting	1	Quarter Year	₱ 6,000.00	₱ 6,000.00
Subtotal Initial Investment Cost				₱ 186,000.00
Total Initial Investment Cost				₱ 186,000.00
C. Supplies				
Electricity	100	Kwh	₱ 12.00	₱ 1,200.00
Record Book	10	Pcs	₱ 75.00	₱ 750.00
Ballpen	10	Pcs	₱ 5.00	₱ 50.00
Stapler	5	Pcs	₱ 90.00	₱ 450.00
Staple Wire	5	Pcs	₱ 15.00	₱ 75.00
Load	1	Per Month	₱ 299.00	₱ 299.00
Total Annual Operating Cost:				₱ 2,824.00

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 on May 30, 2022 starting from 8AM and ending at 11AM, it took hours for the hands-on activity at TEAmarah and Snacks, Poblacion, Pilar, Bohol, and Zamora, Bilar, Bohol. The respondents were the IT expert, customer, cashier and the owner. The testing was done smoothly, and the entire process was discussed very well. The rating was done after the discussion and testing. Most of them rated out system "Excellent", obtaining an average weighted mean of 4.7 out of 5.

Web Usability

To assess the acceptability of the online system, a web usability survey was performed using web usability questionnaire adopted from the Massachusetts Institute of Technology (MIT, 1995). Based on the result of the survey, the respondents gave an excellent rating with a mean value of 4.7. This result indicates that the application is very well relative to the web usability standard means the application has control, good language, and comprehensive content with provisions for online help and user guides, is very consistent in the use of

terminologies, has good communication relative to errors on the operation or use, and has good architectural visual clarity.

Table 17

Web Usability Assessment Result

N=25

Web Usability Criteria	Weighted Mean	Interpretation
I. Navigation		
1.1 Current locations within site are shown clearly	4.7	Excellent
1.2 Link to site's main page is clearly identified	4.5	Excellent
1.3 Major important parts of the site are directly accessible from the main pages	4.4	Excellent
1.4 Easy to see Search function is provided as needed	4.8	Excellent
1.5 Site accommodates novice to expert user	4.6	Excellent
II. Functionality		
2.1 Functions are clearly labeled	4.7	Excellent
2.2 Essential functions are available without leaving the site	4.7	Excellent
2.3 Plugins are only used if they add value	4.7	Excellent
III. User Control		
3.1 Site reflects the user's workflow	4.6	Excellent
3.2 Under can cancel any operations	4.7	Excellent
3.3 Clear exit point is provided on every page	4.3	Excellent
3.4 Per page loads moderately to accommodates slow connections.	4.7	Excellent
3.5 Currently used browser is supported	4.7	Excellent
IV. Language and Content		
4.1 Important information and task are given prominence	4.4	Excellent
4.2 Information of low relevance or rarely used information is not included	4.5	Excellent
4.3 Related information or task are on the same page or menu in the same are within a page	4.4	Excellent
4.4 Language is simple without jargon	4.9	Excellent
4.5 Paragraphs are briefs	4.6	Excellent
4.6 Links are concise expressive and visible-not buried in text	5	Excellent
4.7 Terms are defined	4.7	Excellent

V. Online Help and User Guides		
5.1 It is always clear what is happening on the site visual hints, etc.	4.8	Excellent
5.2 Users can receive email feedback if necessary	4.5	Excellent
5.3 Confirmation screen provided for forms submittal	4.8	Excellent
5.4 All system feedback is timely	4.5	Excellent
5.5 Users are informed if a plugin or browser version is required	4.5	Excellent
5.6 Each page includes a "last updated" date	4.5	Excellent
VI. Consistency		
6.1 The same word or phrase is used consistently to describe an item	4.4	Excellent
6.2 Link reflects the title of the page to which it refers	4.6	Excellent
6.3 Browser page title is meaningful and reflects the main page heading	4.7	Excellent
VII. Error Prevention and Correction		
7.1 User can rely on recognition, not memory, for successful use of the site	4.3	Excellent
7.2 Site tolerates a reasonable variety of user actions	4.4 4.5	Excellent Excellent
7.3 Site provides concise instructions for a user action, including entry formal	4.6	Excellent
7.4 Error message is visible, not hidden	4.5	Excellent
7.5 Error message is in plain language	4.4	Excellent
7.6 Error message describe the action to remedy problems		
7.7 Error message provide a clear exit point	4.4	Excellent
VIII. Architectural and Visual Clarity		
8.1 Site is organized form the user's perspective	4.7	Excellent
8.2 Site is easily scanned able for organization and meaning	4.4	Excellent
8.3 Site design and layout is redundant only when required for user productivity	4.6	Excellent
8.4 White space is sufficient; the page is not too dense unnecessary animation is avoided	4.5	Excellent
8.5 Unnecessary animation is avoided	4.7	Excellent
8.6 Colors used for visited and unvisited links are easily seen and understood	4.4	Excellent
8.7 Bold and italic text is used sparingly	4.7	Excellent
Average Weighted Mean	4.7	Excellent

System Usability- The system usability test was carried out to ascertain the level of system acceptance perceived by the target users. According to the survey result, respondents gave an overall grade of 6.57 with the interpretation “Strongly Agree”. The outcome typically implies that the system can be used to handle customer’s order. Specifically, the technology met the respondents’ expectations in terms of function and capability. Furthermore, the material is organized in the system, the content is extensive, with a nice user interface and convenience of use.

Table 18

System Usability Assessment Result

N=25

Criteria for System Usability	Rating	Comments
1. Overall, I am satisfied with how easy it is to use this system.	6.32	Strongly Agree
2. It was simple to use this system.	6.24	Strongly Agree
3. I can effectively complete my work using this system.	7.04	Strongly Agree
4. I am able to complete my work quickly using this system.	6.68	Strongly Agree
5. I am able to efficiently complete my work using this system.	6.48	Strongly Agree
6. I feel comfortable using this system.	6.76	Strongly Agree
7. It was easy to learn to use this system.	6.92	Strongly Agree
8. I believe I became productive quickly using this system.	6.52	Strongly Agree
9. The system gives error messages that clearly tell me how to fix problems.	6.4	Strongly Agree
10. Whenever I make a mistake using the system, I recover easily and quickly.	6.8	Strongly Agree
11. The information (such as on-line help, on-screen messages and other documentation) provided with this system is clear.	6.24	Agree

12. It is easy to find the information I need.	6.44	Strongly Agree
13. The information provided with the system is easy to understand.	6.64	Strongly Agree
14. The information is effective in helping me complete my work.	6.6	Strongly Agree
15. The organization of information on the system screens is clear.	6.4	Strongly Agree
16. The organization of information on the system screens is clear.	6.48	Strongly Agree
17. I like using the interface of this system.	6.44	Strongly Agree
18. This system has all the functions and capabilities I expect it to have.	6.64	Strongly Agree
19. Overall, I am satisfied with this system.	6.8	Strongly Agree
Average Weighted Mean	6.57	Strongly Agree

Chapter 3

SUMMARY OF FINDINGS, CONCLUSION, AND RECOMMENDATIONS

Summary of Findings

After a thorough study of the present system, the developers discovered that the present system uses a manual method which results to problems such as time-consuming in ordering the products, distribution of products from the branches, unsecured data where data is written and stored in notebook and limited coverage of advertisement. Moreover, the mode of advertisement of the Online Ordering System of TEAmarah and Snacks, was done through the Facebook page. There is a need for online computerized ordering and recording of products for effective marketing strategy and to prevent misplacement of data as well as the availability of statistical and graphical reports.

Based on the needs identified, the Online Ordering System of TEAmarah and Snacks was developed with the following modules: online mechanism, acquisition, ordering, payments, administration, and reports. The developed system was tested, and a survey was conducted to the web users. To rate the developed system according to its usability, the usability web usability questionnaire was used. Based on the results of the evaluation, the respondents of the users gave a rating of 4.7 or an “Excellent” rating to the system, indicating the achievement of individuals’ expectations particularly on the features such as ease of use, visual clarity, language, and its application, in general.

Conclusion

Based on the gathered information the operations of the Online Ordering System of TEAmarah and Snacks, adopt the manual processes that may result in related problems which can be resolved through computerization. The evaluation of existing operations particularly on data management and transmission reveals that computerization is possible and achievable. With the functional evaluation of the online ordering system of TEAmarah and Snacks, Bohol, the capability and features of the system had met the expectations of the owner to improve the business operations. Moreover, considering the economic performance evaluation, the adoption of the system is affordable and economical.

Recommendations

Based on the aforementioned conclusions, it is highly recommended that the developed system should be implemented. For a successful implemented of the developed system, the following recommendations should be taken:

1. An official launching should be done of the developed system for the awareness of the availability of Online Ordering System of TEAmarah and Snacks.
2. Conduct a system training to the primary users for them to be familiarized and be oriented with the new system.
3. Regular system maintenance must be performed to ensure the security of records and the reliability of the system.

REFERENCES

- 1987 Constitution of the Republic of the Philippines, Article XIV, Section 10 from <http://legacy.senate.gov.ph/lisdata/83166871!.pdf>
- Adithya R., Abhishek Singh, Salma Pathan and Vaishnav Kanade (2017). *Online Food Ordering System. International Journal of Computer Applications* 180(6):22-24. Retrieved on March 25, 2022.
- Adonis B. Inson, Marianne C. Lajera, Analyn B. Morga (2017). *Online Ordering of Bohol Diversity Complex. Thesis. Bohol Island State University – Bilar Campus, Zamora, Bilar, Bohol.*
- Brigula, N. (2016). *Geancyfood Online Reservation System. Thesis.* Retrieved on March 25, 2022.
- Bhargave, A., Jadhav, N., Joshi, A., Oke, P., & Lahane, S. R. (2013). Digital ordering system for restaurant using Android. *International journal of scientific and research publications*, 3(4), 1-7.
- Camposo et al., 2020 Network-Based Ordering System of Beaurose Shop of Poblacion Sur, Carmen, Bohol. *Thesis of Bohol Island State University Bilar-Campus, Zamora, Bilar, Bohol.*
- Chavan, V., Jadhav, P., Korade, S., & Teli, P. (2015). Implementing customizable online food ordering system using web based application. *International Journal of Innovative Science, Engineering & Technology*, 2(4), 722-727.
- Jason T. Yray, Miriam A. Pomada, Aileen A. Tusoy (2020). *Web Based Ordering and Sales Management System of Quarteros Bread and Cakes of Looc, Jagna, Bohol. Thesis. Bohol Island State University - Bilar Campus, Zamora, Bilar, Bohol.*
- Jeczy Von Pelayo, Dhen F. Uy, Mave Nardo, Christian Jay A. Sanico and John Phil C. Baraquil (2021). *Development of Online Ordering System. Thesis. Palompon Institute of Technology.* Retrieved on March 25, 2022.
- Leong, W. H. (2016). *Food Ordering System Using Mobile Phone* (Doctoral dissertation, UTAR).
- Rapid Application Development (RAD), from <https://kissflow.com/low-code/rad/rapid-application-development/>
- Yang, T. H., & Geetha, S. Factors influencing consumers' intention to use mcdonald's self-service kiosks in klang valley.

APPENDICES

APPENDIX A

Guide Question for Interview

Owner- TEAmarah and Snacks Poblacion, Pilar, Bohol

1. What are the current ordering processes of the TEAmarah and snacks?
2. What are the problems encountered by the present system of TEAmarah and snacks.
3. What is the level of system acceptability as perceived by the target users?
4. What are the processes of customer ordering products?
5. What are the processes of every branch ordering new products?
6. What are the needs of your shop?
7. What are the present processes managing products ordered in your shop?
8. What are the problems and needs of TEAmarah and snacks in the management of products and orders?

Cashier- TEAmarah and Snacks Poblacion, Pilar, Bohol

1. Where do you store information about TEAmarah products?
2. Where do you store the information you needed for the applicant of the new branch?
3. Where do you store the order or purchase the product of their customer?
4. How do you manage the sales of your products?
5. Which towns are covered in the door-to-door delivery and how do they determine the appropriate delivery charge?
6. What is the daily average of customers who order online?

7. How long does it usually take to deliver the customers' orders and are they able to track their orders?
8. What are the commonly used payment method?
9. What is their opening and closing time?

Letter of Intent



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



March 30, 2022

DEZZA D. FLORENDO
Owner/Manager
TEAmarah and Snacks
Poblacion, Pilar, Bohol

Ma'am,

Good day!

We, the 4th year Students of Bachelor of Science in Computer Science of Bohol Island State University – Bilar Campus are to conduct a system development project (thesis) as a requirement for graduation.

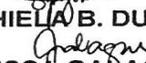
In this regard, we would like to ask your good office to conduct a system study (thesis) basing on your Ordering Management System of TEAmarah and Snacks as a basis for our proposed automation. This study would include an interview, observation of transactions and review of documents significant for the study and development of the system. We anticipate having an implementation of the system developed as part of usability testing.

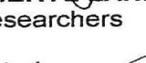
We assure you that we shall honor secrecy and privacy to all data and information we shall be handling as we go along with our study. Your approval will be a great help to the success of our study.

We anticipate your favorable response regarding his matter.

Thank you very much and more power!

Respectfully yours,

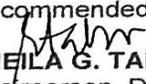

MA. NEINA P. WAGAS

SHEILA B. DUYAC

JESSA GALAGAR

SHERYL LANE DIOSO
Researchers

Noted:

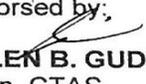

RENANTE S. DIGAMON, PhD
Subject instructor

Recommended by:


SHEILA G. TABUNO
Chairperson, DCoS


LEONIDA P. REVILLA
Thesis Adviser

Endorsed by:


ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:


DEZZA D. FLORENDO
Owner/Manager, TEAmarah and Snacks

Letter of Implementation



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



May 29, 2022

Ms. Dezza Florendo
Owner/Manager
TEAmarah and Snacks
Poblacion, Pilar, Bohol

Ma'am,

Greetings!

It is our pleasure to inform you that the system "Online Ordering System of TEAmarah and Snacks Poblacion, Pilar, Bohol" 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.

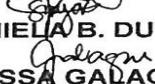
By this time, we would like to express our gratitude for allowing us to conduct our thesis study. We are hoping for future collaboration with you, our dear client.

May the good Lord continually bless you and your good office.

Thank you and more power!

Very truly yours,


MA. NENIA P. WAGAS


SHEILA B. DUYAC


JESSA GALAGAR


SHERYL LANE DIOSO
Researchers

Noted:

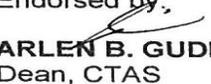

RENANTE S. DIGAMON, PhD
Subject instructor

Recommended by:

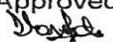

SHEILA G. TABUNO
Chairperson, DCoS


LEONIDA P. REVILLA
Thesis Adviser

Endorsed by:


ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:


DEZZA D. FLORENDO
Owner/Manager, TEAmarah and Snacks

Letter of Questionnaire Distribution and Implementation

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

May 29, 2022

Dear Respondents,

Greetings!

We, the system researchers of the new automated system, wherein we integrated computer applications in the basic processes of the business/establishment, had come up with the final phase of our project development which is the testing and implementation. We have put into operation the developed system and we want you to take part in the testing process.

We would like to get your views and opinion on the developed system; thus, this survey will be conducted. We wish to know your feedback as we work for the improvement of the system. It is rightfully needed to hear your side since it is you who's going to be using the developed system. Your input would be very valuable.

We really would appreciate it if you would take the time and complete the questionnaire. The data that will be gathered shall be used for rating statistics in our developed system. If there are items you are confused with, feel free to ask and we would gladly assist you.

As we end this project, we wish to convey our heartfelt gratitude to your good establishment for allowing us to conduct the study; to all the people who helped us throughout this journey; and of course, to you, our dear clients/end users/customers, who had inspired us to dream greater than what was conceivable by the mind. Thank you so much!

Together let us build a better world for everyone.

Good day!

Researchers

APPENDIX B

Web Usability Questionnaire

Adopted from system questionnaire by Lewis, J.R (1995)

Rating Scale

- 5 – Excellent (no problem)
- 4 – Very Good (minor inconsistencies, aesthetic issues)
- 3 – Good (non-critical, cause moderate confusion or irritation)
- 2 – 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 is 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 experts 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						
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 are within a page						
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 for 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 an item 6.2 The link reflects the little 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 including entry formal 7.4 Error message in visible, not hidden 7.5 Error message is in plain language 7.6 Error message describe the action to remedy a problem 7.7 Error message provide a clear exit point						
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 meanings 8.3 Site design and layout is redundant only when required for 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						

System Usability Questionnaire

Direction:

- Please rate the usability questionnaire
- Try to respond to all of the items
- For items that are not applicable, use N/A
- Make sure these fields are filled in

Rating Scale:

- 7 – Strongly Agree
- 6 – Agree
- 5 – Tend to Agree
- 4 – Neither Agree or Disagree
- 3 – Tend to disagree
- 2 – Disagree
- 1 – Strongly Disagree

Criteria for System Usability	Rating	Comments
1. Overall, I am satisfied with how easy it is to use this system.		
2. It was simple to use this system.		
3. I can effectively complete my work using this system.		
4. I am able to complete my work quickly using this system.		
5. I am able to efficiently complete my work using this system.		
6. I feel comfortable using this system.		
7. It was easy to learn to use this system.		
8. I believe I became productive quickly using this system.		
9. The system gives error messages that clearly tell me how to fix problems.		
10. Whenever I make a mistake using the system, I recover easily and quickly.		
11. The information (such as on-line help, on-screen messages and other		

12. documentation) provided with this system is clear.		
13. It is easy to find the information I need.		
14. The information provided with the system is easy to understand.		
15. The information is effective in helping me complete my work.		
16. The organization of information on the system screens is clear.		
17. The organization of information on the system screens is clear.		
18. I like using the interface of this system.		
19. This system has all the functions and capabilities I expect it to have.		
20. Overall, I am satisfied with this system.		
Average Weighted Mean		

APPENDIX C

User's Manual

Main Page

Accessing the Website

Steps:

1. Type "http://teamarah.bisubilar.org/TEAmarah/"

Customer Log In

Steps:

1. Click "Log in" menu
2. At the right side, type username and password
3. Then click "Log In"
4. If you have no existing account, click "Register" button at the bottom part of the homepage.
5. Fill the needed information then click "Registered"

Menu

Steps:

1. Click "Order Now"
2. Choose menu category then "View Menu" choose dish you want to order then click "Add to Cart"
3. Click arrow up to add product quantity
4. Click "Back to Cart" when you want to go back on the Cart
5. Choose payment method then click "Place Order"

Admin Side

Steps:

1. Type http://teamarah.bisubilar.org/TEAmarah/admin in the URL area
2. Input username and password
3. Click "Log In"

Menu Category

Add Category

Steps:

1. Click "Menu Category" menu
2. Click "Create Menu Category" sub menu
3. Input needed information of adding menu category
4. Click "Save"
5. Confirmation: "Menu Category Added Successfully"

Manage Menu Category

Steps:

1. Click "Menu Category" menu
2. Click "Manage Menu Category" sub menu
3. Click "Edit"
4. Input needed information of managing menu category
5. Confirmation "Menu Category Updated Successfully"
6. Click Trash Icon
7. Confirmation "Menu Category Deleted Successfully"

Menu

Adding of Menu

Steps:

1. Click "Menu" menu
2. Click "Create Menu" sub menu
3. Input needed information of adding the product
4. Click "Submit" if you want to Save Product
5. Confirmation: "Menu Added Successfully"

Updating of Menu

Steps:

1. Click "Menu" menu
2. Click "Manage Menu" sub menu
3. Click "Edit" on the right side of the menu and update information

4. Click “Make Changes”
5. Confirmation: “Dish Updated Successfully”

Deleting of Menu

Steps:

1. Click “Menu” menu
2. Click “Manage Menu” sub menu
3. Click Trash Icon
4. Confirmation “Dish Deleted Successfully”

Management

Orders

Steps:

1. Click “Order” menu
2. Click “Process” then
3. Select status
4. Click “Submit” for confirmation
5. Confirmation: “Order Processed Successfully”
5. Click “Delete” to delete order

Cashier

Adding of Cashier

Steps:

1. Click “Cashier” menu
2. Click “Create Cashier” sub menu
3. Input needed information of adding cashier
4. Click “Submit” if you want to Save cashier detail
5. Confirmation: “Cashier Added Successfully”

Updating of Product

Steps:

1. Click “Cashier” menu
2. Click “Manage Cashier” sub menu
3. Click “Edit” on the right side of the menu and update information

4. Click "Make Changes"
5. Confirmation: "Cashier Updated Successfully"

Deleting of Product

Steps:

1. Click "Cashier" menu
2. Click "Manage Cashier" sub menu
3. Click Trash Icon
4. Confirmation "Cashier Deleted Successfully"

Reports

Steps:

1. Click "Reports" menu
2. View Reports and view saleable products

Cashier Side

Orders

Steps:

1. Click "Order" menu
2. Click "Process" then
3. Select status
4. Click "Submit" for confirmation
5. Confirmation: "Order Processed Successfully"
5. Click "Delete" to delete order

Reports

Steps:

1. Click "Reports" menu
2. View Reports and view saleable produc

APPENDIX D

Source Code

config.php

```
<?php
defined('BASEPATH') OR exit('No direct
script access allowed');
$config['base_url'] =
'http://localhost/TEAmarah/';
$config['index_page'] = '';
$config['uri_protocol'] = 'REQUEST_URI';
$config['url_suffix'] = '';
$config['language'] = 'english';
$config['charset'] = 'UTF-8';
$config['enable_hooks'] = FALSE;
$config['subclass_prefix'] = 'MY_';
$config['composer_autoload'] = FALSE;
$config['permitted_uri_chars'] = 'a-z 0-
9~%.:_-';
$config['enable_query_strings'] = FALSE;
$config['controller_trigger'] = 'c';
$config['function_trigger'] = 'm';
$config['directory_trigger'] = 'd';
$config['allow_get_array'] = TRUE;
$config['log_threshold'] = 0;
$config['log_path'] = '';
$config['log_file_extension'] = '';
$config['log_file_permissions'] = 0644;
$config['log_date_format'] = 'Y-m-d H:i:s';
$config['error_views_path'] = '';
$config['cache_path'] = '';
$config['cache_query_string'] = FALSE;
$config['encryption_key'] = '';
$config['sess_driver'] = 'files';
$config['sess_cookie_name'] = 'ci_session';
$config['sess_expiration'] = 7200;
$config['sess_save_path'] = NULL;
$config['sess_match_ip'] = FALSE;
$config['sess_time_to_update'] = 300;
$config['sess_regenerate_destroy'] = FALSE;
$config['cookie_prefix'] = '';
$config['cookie_domain'] = '';
$config['cookie_path'] = '/';
$config['cookie_secure'] = FALSE;
$config['cookie_httponly'] = FALSE;
$config['standardize_newlines'] = FALSE;
$config['global_xss_filtering'] = FALSE;
$config['csrf_protection'] = FALSE;
$config['csrf_token_name'] =
'csrf_test_name';
$config['csrf_cookie_name'] =
'csrf_cookie_name';
$config['csrf_expire'] = 7200;
```

```
$config['csrf_regenerate'] = TRUE;
$config['csrf_exclude_uris'] = array();
$config['compress_output'] = FALSE;
$config['time_reference'] = 'local';
$config['rewrite_short_tags'] = FALSE;
$config['proxy_ips'] = '';
```

database.php

```
$active_group = 'default';
$query_builder = TRUE;

$db['default'] = array(
'dsn' => "",
'hostname' => 'localhost',
'username' => 'root',
'password' => "",
'database' => 'dbshop',
'dbdriver' => 'mysqli',
'dbprefix' => "",
'pconnect' => FALSE,
'db_debug' => (ENVIRONMENT !==
'production'),
'cache_on' => FALSE,
'cachedir' => "",
'char_set' => 'utf8',
'dbcollat' => 'utf8_general_ci',
'swap_pre' => "",
'encrypt' => FALSE,
'compress' => FALSE,
'stricton' => FALSE,
'failover' => array(),
'save_queries' => TRUE
);
```

Login.php

```
<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Login extends CI_Controller {
public function index() {
$this->load->view('admin/login');
}
public function authenticate() {
$this->load->library('form_validation');
$this->load->model('Admin_model');
$this->form_validation-
>set_rules('username','Username',
'trim|required');
```

```

$this->form_validation-
>set_rules('password','Password',
'trim|required');
$this->form_validation-
>set_rules('user_type','Position',
'trim|required');
if($this->input->post('user_type') == 'admin'){
    if($this->form_validation->run() == true) {
        $username=$this->input->post('username');
        $admin=$this->Admin_model-
>getByUsername($username);
        if(!empty($admin)) {
            $password=$this->input->post('password');
            if(password_verify($password,
            $admin['password']) == true) {
                $adminArray['admin_id']
                =
                $admin['admin_id']; $adminArray['username']
                = $admin['username'];
                $adminArray['f_name'] = $admin['f_name'];
                $adminArray['l_name'] =
                $this->session->set_userdata('admin',
                $adminArray);
                redirect(base_url().'admin/home');
            } else {
                $this->session->set_flashdata('msg', 'Either
                username or password is incorrect');
                redirect(base_url().'admin/login/index');
            } else {
                $this->session->set_flashdata('msg', 'Either
                username or password is incorrect');
                redirect(base_url().'admin/login/index');
            } //success
        } else { //Error
            $this->load->view('admin/login');
        }
    }
    if($this->input->post('user_type')==
    'cashier'){
        $this->load->library('form_validation');
        $this->load->model('Cashiers_model');
        $this->form_validation-
        >set_rules('username','Username',
        'trim|required');
        $this->form_validation-
        >set_rules('password','Password',
        'trim|required');
        if($this->form_validation->run() == true) {
            $username = $this->input->post('username');
            $admin=$this->Cashiers_model-
            >getByUsername($username);
            if(!empty($admin)) {
                $password = $this->input->post('password');
                if(password_verify($password,
                $admin['password']) == true) {
                    $adminArray['admin_id'] = $admin['c_id'];
                    $adminArray['username']
                    =
                    $admin['username'];
                    $adminArray['f_name'] = $admin['f_name'];

```

```

$adminArray['l_name'] = $admin['l_name'];
$this->session->set_userdata('admin',
$adminArray);
redirect(base_url().'admin/homecash');
} else {
    $this->session->set_flashdata('msg', 'Either
    username or password is incorrect');
    redirect(base_url().'admin/login/index');
} else {
    $this->session->set_flashdata('msg', 'Either
    username or password is incorrect');
    redirect(base_url().'admin/login/index');
} //success} else { //Error
    $this->load->view('admin/login');
}
if($this->input->post('user_type') == 'rider'){
    $this->load->library('form_validation');
    $this->load->model('Rider_model');
    $this->form_validation-
    >set_rules('username','Username',
    'trim|required');
    $this->form_validation-
    >set_rules('password','Password',
    'trim|required');
    if($this->form_validation->run() == true) {
        $username=this->input-
        >post('username');$rider=$this-
        >Rider_model-
        >getByUsername($username);
        if(!empty($rider)) {
            $password=$this->input->post('password');
            if(password_verify($password,
            $rider['password']) == true) {
                $riderArray['u_id'] = $rider['u_id'];
                $riderArray['username'] = $rider['username'];
                $riderArray['f_name'] = $rider['f_name'];
                $riderArray['l_name'] = $rider['l_name'];
                $this->session->set_userdata('rider',
                $riderArray);
                redirect(base_url().'rider/home');
            } else {
                $this->session->set_flashdata('msg', 'Either
                username or password is incorrect');
                redirect(base_url().'admin/login/index');
            }
        } else { $this->session->set_flashdata('msg',
        'Either username or password is incorrect');
            redirect(base_url().'admin/login/index');
        } //success} else { //Error
            $this->load-
            >view('admin/login');
        }
    }
    public function logout() {
        $this->session->unset_userdata('admin');
        redirect(base_url().'admin/login/index');
    }
}

```

forgot.php

<?php

```

defined('BASEPATH') OR exit ('No direct
script access allowed');
class Forgot extends CI_Controller {
public function __construct(){
parent::__construct();
$this->load->model('Admin_model');}
public function index() {
$this->load->view('admin/forgot');}
public function password(){
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p class="invalid-
feedback">','</p>');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('user_type',
'Position','trim|required');
$db = $this->input->post('user_type');
$email = $this->input->post('email');
$key = $this->generate_random_string();
$this->db->where('email', $email);
if(!$this->db->get($db->row_array()){
$this->session->set_flashdata("err", "Email
not found.");}else{
$this->db->set('rec_key', $key);
$this->db->where('email', $email);
$query = $this->db->update($db);
if($query){
$this->send_recovery_link($email, $key,
$db);
$this->session->set_flashdata("success",
"Recovery link sent successfully, please
check your email.");}
}else{
$this->session->set_flashdata("err", "There
was a problem sending your request please
try again.");}
$this->load->view('admin/forgot');}
public function recover(){
$db = $this->uri->segment(4);
$key = $this->uri->segment(5);
if($db != 'admin' && $db != 'cashier' && $db
!= 'riders'){
redirect(base_url().'admin/forgot');}
$users = $this->Admin_model-
>getByKey($db, $key);
if(!$users){
redirect(base_url().'admin/forgot');}
$this->session->set_flashdata('recover',
$db);
$this->session->set_flashdata('key', $key);
$this->load->view('admin/recover');}
public function recover_account(){
$db = $this->uri->segment(4);
$key = $this->uri->segment(5);

```

```

$password = $this->input->post('pass');
$password = $this->input->post('npass');
$this->db->set('rec_key', "");
$this->db->set('password',
password_hash($password,
PASSWORD_DEFAULT));
$query = $this->db->update($db);
$this->session->set_flashdata('success',
'Account successfully recovered, please
login');
redirect(base_url().'admin/login/index');}
public function send_recovery_link($email,
$key, $db){
$to = $email;
$subject = "Password Recovery";
$message = '
<html>
<head>
<title>TEAmarah and Snacks</title>
</head>
<body>
<p>Email Confirmation</p>
<table width="600px" style="border:1px solid
#cccccc;margin: auto;border-
spacing:0;"><tr><td
style="background:#000000;padding-
left:3%"><img src="" width="300px"
vspace=10 />
</td>
</tr>
<tr>
<td style="height:20px">
</td>
</tr>
<p>Hi ".$fullname."</p>
<p>To recover your account on teamarah
ans snacks, Please click this link <a
href="" .base_url('forgot/recover').'.'. $db.'.'. $k
ey.'">verify account</a>.</p>
<tr>
<td style="height:20px">
</td>
</tr>
</table>
</body>
</html>';// Always set content-type when
sending HTML email
$headers = "MIME-Version: 1.0" . "\r\n";
$headers="Content-
type:text/html;charset=UTF-8" . "\r\n";
// More headers
$headers='From:<teamarah@no-
reply.com>' . "BKU – teamarah and snacks";
mail($to,$subject,$message,$headers);}
function generate_random_string(){

```

```

$characters =
'23456789abcdefghijklmnopqrstuvwxyzABCDE
FGHJKLMNPQRSTUVWXYZ';
$randomString = "";
for($i=0;$i < 10;$i++){
$randomString .= $characters[rand(0,
strlen($characters)-1)];}return
$randomString;}
}

```

Verify.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Verify extends CI_Controller {
public function __construct(){
parent::__construct();
$this->load->model('User_model');}
public function index() {
$this->load->view('front/verify');}
public function verify_email() {
$username = $this->uri->segment(3);
$key = $this->uri->segment(4);
$this->db->set('ver_key', "");
$this->db->where('username', $username);
$query = $this->db->update('users');
$this->session->set_flashdata('success',
"Email Successfully Verified, please login!");
$this->load->view('front/login');}
}

```

User.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class User extends CI_Controller {
public function __construct(){
parent::__construct();
$admin = $this->session->userdata('admin');
if(empty($admin)) {
$this->session->set_flashdata('msg', 'Your
session has been expired');
redirect(base_url().'admin/login/index');
}}
public function index() {
$this->load->model('User_model');
$users = $this->User_model->getUsers();
$data['users'] = $users;
$this->load->view('admin/partials/header');
$this->load->view('admin/user/list',
$data);$this->load-
>view('admin/partials/footer');}
public function create_user() {
$this->load->model('User_model');
$this->load->library('form_validation');

```

```

$this->form_validation-
>set_error_delimiters('<pclass="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('username',
'Username','trim|required');
$this->form_validation-
>set_rules('firstname','First
Name','trim|required');
$this->form_validation-
>set_rules('lastname','Last
Name','trim|required');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('password',
'Password','trim|required');
$this->form_validation->set_rules('phone',
'Phone','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['username'] = $this->input-
>post('username');
$formArray['f_name'] = $this->input-
>post('firstname');
$formArray['l_name'] = $this->input-
>post('lastname');
$formArray['email'] = $this->input-
>post('email');
$formArray['password']=
password_hash($this->input-
>post('password'),
PASSWORD_DEFAULT);
$formArray['phone'] = $this->input-
>post('phone');
$formArray['address'] = $this->input-
>post('address');
$this->User_model->create($formArray);
$this->session->set_flashdata('success',
'User added successfully');
redirect(base_url().'admin/user/index');
}else{$this->load-
>view('admin/partials/header');
$this->load->view('admin/user/add_user');
$this->load->view('admin/partials/footer');}
public function edit($id) {
$this->load->model('User_model');
$user = $this->User_model->getUser($id);
if(empty($user)) {
$this->session->set_flashdata('error', 'User
not found');
redirect(base_url().'admin/user/index');}
$this->load->library('form_validation');

```

```

$this->form_validation-
>set_error_delimiters('<pclass="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('username',
'Username','trim|required');
$this->form_validation-
>set_rules('firstname','First
Name','trim|required');
$this->form_validation-
>set_rules('lastname','Last
Name','trim|required');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('password',
'Password','trim|required');
$this->form_validation->set_rules('phone',
'Phone','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['username'] = $this->input-
>post('username');
$formArray['f_name'] = $this->input-
>post('firstname');
$formArray['l_name'] = $this->input-
>post('lastname');
$formArray['email'] = $this->input-
>post('email');
$formArray['password'] =
password_hash($this->input-
>post('password'),
PASSWORD_DEFAULT);
$formArray['phone'] = $this->input-
>post('phone');
$formArray['address'] = $this->input-
>post('address');
$this->User_model-
>update($id,$formArray);$this->session-
>set_flashdata('success', 'User updated
successfully');
redirect(base_url(). 'admin/user/index');
} else {
$data['user'] = $user;
$this->load->view('admin/partials/header');
$this->load->view('admin/user/edit', $data);
$this->load->view('admin/partials/footer');
}}public function delete($id) {
$this->load->model('User_model');
$user = $this->User_model->getUser($id);
if(empty($user)) {
$this->session->set_flashdata('error', 'User
not found');
redirect(base_url(). 'admin/user/index');}

```

```

$this->session->set_flashdata('success',
'User deleted successfully');
redirect(base_url(). 'admin/user/index');}
}

```

Menu.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Menu extends CI_Controller {
public function __construct(){
parent::__construct();
$admin = $this->session->userdata('admin');
if(empty($admin)) {
$this->session->set_flashdata('msg', 'Your
session has been expired');
redirect(base_url(). 'admin/login/index');
}
}
$this->load->helper('url');
}
public function index() {
$this->load->model('Menu_model');
$dishesh = $this->Menu_model->getMenu();
$data['dishesh'] = $dishesh;
$this->load->view('admin/partials/header');
$this->load->view('admin/menu/list', $data);
$this->load->view('admin/partials/footer');
}
public function create_menu(){
$this->load->helper('common_helper');
$this->load->model('Menucat_model');
$store = $this->Menucat_model-
>getStores();
$config['upload_path'] =
'./public/uploads/dishesh/';
$config['allowed_types'] =
'gif|jpg|png|jpeg';
// $config['encrypt_name']= true;
$this->load->library('upload', $config);
$this->load->model('Menu_model');
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p class="invalid-
feedback">','</p>');
$this->form_validation->set_rules('name',
'Dish name','trim|required');
$this->form_validation->set_rules('about',
'About','trim|required');
$this->form_validation->set_rules('price',
'Price','trim|required');
$this->form_validation->set_rules('rname',
'Restaurant name','trim|required');

if($this->form_validation->run() == true) {
if(!empty($_FILES['image']['name'])){

```

```

//image is selected
if($this->upload->do_upload('image')) {
//file uploaded successfully
$data = $this->upload->data();
//resizing image
resizeImage($config['upload_path'].$data['file_name'],
$config['upload_path'].'thumb/'.$data['file_name'], 300,270);
resizeImage($config['upload_path'].$data['file_name'],
$config['upload_path'].'front_thumb/'.$data['file_name'], 1120,270);
$formArray['img'] = $data['file_name'];
$formArray['name'] = $this->input->post('name');
$formArray['about'] = $this->input->post('about');
$formArray['price'] = $this->input->post('price');
$formArray['r_id'] = $this->input->post('rname');
$this->Menu_model->create($formArray);
$this->session->set_flashdata('dish_success', 'Menu added successfully');
redirect(base_url(). 'admin/menu/index');
} else {
//we got some errors
$error = $this->upload->display_errors("<p class='invalid-feedback'>", "</p>");
$data['errorImageUpload'] = $error;
$data['stores'] = $store;
$this->load->view('admin/partials/header');
$this->load->view('admin/menu/add_menu', $data);
$this->load->view('admin/partials/footer');
}
} else {
//if no image is selected we will add res data without image
$formArray['name'] = $this->input->post('name');
$formArray['about'] = $this->input->post('about');
$formArray['price'] = $this->input->post('price');
$formArray['r_id'] = $this->input->post('rname');
$this->Menu_model->create($formArray);
$this->session->set_flashdata('dish_success', 'Menu added successfully');
redirect(base_url(). 'admin/menu/index');
}
} else {
$store_data['stores'] = $store;
$this->load->view('admin/partials/header');
$this->load->view('admin/menu/add_menu', $store_data);
$this->load->view('admin/partials/footer');
}
}
public function edit($id) {
$this->load->model('Menu_model');
$dish = $this->Menu_model->getSingleDish($id);
$this->load->model('Menucat_model');
$store = $this->Menucat_model->getStores();
if(empty($dish)) {
$this->session->set_flashdata('error', 'Menu not found');
redirect(base_url(). 'admin/menu/index');
}
$this->load->helper('common_helper');
$config['upload_path'] = './public/uploads/dishesh/';
$config['allowed_types'] = 'gif|jpg|png|jpeg';
//$config['encrypt_name'] = true;
$this->load->library('upload', $config);
$this->load->library('form_validation');
$this->form_validation->set_error_delimiters('<p class="invalid-feedback">', '</p>');
$this->form_validation->set_rules('name', 'Dish name', 'trim|required');
$this->form_validation->set_rules('about', 'About', 'trim|required');
$this->form_validation->set_rules('price', 'Price', 'trim|required');
$this->form_validation->set_rules('rname', 'Restaurant name', 'trim|required');
if($this->form_validation->run() == true) {
if(!empty($_FILES['image']['name'])){
//image is selected
if($this->upload->do_upload('image')) {
//file uploaded successfully
$data = $this->upload->data();
//resizing image
resizeImage($config['upload_path'].$data['file_name'],
$config['upload_path'].'thumb/'.$data['file_name'], 300,270);
$formArray['img'] = $data['file_name'];
$formArray['name'] = $this->input->post('name');
$formArray['about'] = $this->input->post('about');
$formArray['price'] = $this->input->post('price');

```

```

$formArray['r_id']      =      $this->input-
>post('rname');
$this->Menu_model->update($id,
$formArray);
if(file_exists('./public/uploads/dishesh/'.$dish
['img'])) {
unlink('./public/uploads/dishesh/'.$dish['img'])
;
}
if(file_exists('./public/uploads/dishesh/thumb/
'.$dish['img'])) {
unlink('./public/uploads/dishesh/thumb/'.$dis
h['img']);
}
$this->session-
>set_flashdata('dish_success',      'Menu
updated successfully');
redirect(base_url(). 'admin/menu/index');
} else {
//we got some errors
$error = $this->upload->display_errors("<p
class='invalid-feedback'>", "</p>");
$data['errorImageUpload'] = $error;
$data['dish'] = $dish;
$data['stores'] = $store;
$this->load->view('admin/partials/header');
$this->load->view('admin/menu/edit', $data);
$this->load->view('admin/partials/footer');
}
} else {
//if no image is selcted we will add res data
without image
$formArray['name']      =      $this->input-
>post('name');
$formArray['about']     =      $this->input-
>post('about');
$formArray['price']     =      $this->input-
>post('price');
$formArray['r_id']      =      $this->input-
>post('rname');
$this->Menu_model->update($id,
$formArray);
$this->session-
>set_flashdata('dish_success',      'Menu
updated successfully');
redirect(base_url(). 'admin/menu/index');
}
} else {
$data['dish'] = $dish;
$data['stores'] = $store;
$this->load->view('admin/partials/header');
$this->load->view('admin/menu/edit', $data);
$this->load->view('admin/partials/footer');
}
}
public function delete($id){

```

```

$this->load->model('Menu_model');
$dish      =      $this->Menu_model-
>getSingleDish($id);
if(empty($dish)) {
$this->session->set_flashdata('error', 'Menu
not found');
redirect(base_url(). 'admin/menu');
}
if
(file_exists('./public/uploads/dishesh/'.$dish['i
mg'])) {
unlink('./public/uploads/dishesh/'.$dish['img'])
;
}
if(file_exists('./public/uploads/dishesh/thumb/
'.$dish['img'])) {
unlink('./public/uploads/dishesh/thumb/'.$dis
h['img']);
}
$this->Menu_model->delete($id);
$this->session-
>set_flashdata('dish_success',      'Menu
deleted successfully');
redirect(base_url(). 'admin/menu/index');
}
}

```

Checkout.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Checkout extends CI_Controller {
function __construct() {
parent::__construct();
$user = $this->session->userdata('user');
if(empty($user)) {
$this->session->set_flashdata('msg', 'Your
session has been expired');
redirect(base_url(). 'login/');}
$this->load->helper('date');
$this->load->library('form_validation');
$this->load->library('cart');
$this->load->model('Order_model');
$this->load->model('User_model');
$this->controller = 'checkout';
date_default_timezone_set("Asia/Manila")
public function index() {
$loggedUser=$this->session-
>userdata('user');
$u_id = $loggedUser['user_id'];
$user = $this->User_model->getUser($u_id);
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p class="invalid-
feedback">', '</p>');

```

```

$this->form_validation->set_rules('ddate',
'Date','trim|required');
$this->form_validation->set_rules('dtime',
'Time','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
$this->form_validation->set_rules('hid_tot',
'Total','trim|required');
if($this->form_validation->run() == true) {
$ddate = $this->input->post('ddate');
$dtime = $this->input->post('dtime');
$address = $this->input->post('address');
$hid_tot = $this->input->post('hid_tot');
$d = $ddate.' '.$dtime.':00';
if($ddate < date("Y-m-d")){
//echo 'asdf';
$this->session->set_flashdata('err', 'Sorry,
Order Date is invalid!');
}else{
if($dtime >= '10:00' && $dtime <= '16:00'){
if(date('h:i') >= '15:31'){
$this->session->set_flashdata('err', 'Sorry,
Store is about to close!');
//elseif($dtime <= date("H:i:", strtotime("+29
minutes"))){
//      $this->session->set_flashdata('err',
'Sorry, Please order 30 minutes ahead at this
time!');
}else{
if($this->cart->total_items() <= 0) {
redirect(base_url().'restaurant');}
$submit = $this->input->post('placeholder');
$this->form_validation-
>set_error_delimiters('<p      class="invalid-
feedback">','</p>');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['address'] = $this->input-
>post('address');
$orderChecked = $this-
>checkOrder($ddate);
if($orderChecked){
$this->session->set_flashdata('err',
$orderChecked);
}else{
//insert data into customer table and get last
inserted custid
$this->User_model-
>update($u_id,$formArray);
$order = $this->placeOrder($u_id, $d,
$address, $hid_tot);
if($order) {
$this->session-
>set_flashdata('success_msg', 'Thank You!
Your order has been placed successfully!');

```

```

redirect(base_url().'orders'); } else {
$data['error_msg'] = "Order submission
failed, please try again.";
}}}}
}else{
$this->session->set_flashdata('err', 'Sorry,
Available Orders Hours is from 10:00 AM -
4:00 PM Only!');
}}//code
}else{
if($this->input->post('ddate') || $this->input-
>post('dtime') || $this->input-
>post('address')){
$this->session->set_flashdata('err', 'Sorry,
Delivery is not available in your area!');
}}
$data['user'] = $user;
$data['cartItems'] = $this->cart->contents();
$this->load->view('front/partial/header');
$this->load->view('front/checkout',$data);
$this->load->view('front/partial/footer');}
public function checkOrder($date){
$cartItems = $this->cart->contents();
$err = "";
foreach($cartItems as $item) {
//$orderData[$i]['d_id'] = $item['id'];
//$orderData[$i]['quantity'] = $item['qty'];
$this->db->select('SUM(quantity) as total');
$this->db->where('d_id', $item['id']);
$this->db->like('success_date', $date);
$checkOrder = $this->db-
>get('user_orders')->result_array();
if($checkOrder[0]['total'] >= 10){
$err .= 'Order : <b>'.$item['name'].'</b> is
Sold Out!;$err .= '<br />';
}else{$total = $checkOrder[0]['total'] +
$item['qty'];
if($total > 10){
$err .= 'Order : <b>'.$item['name'].'</b>
only<b>.(10 - $checkOrder[0]['total']).</b>
serving(s) available!';
$err .= '<br />'}}}
if($err == ""){return false;}else{
return $err;}}
public function placeOrder($u_id, $d,
$address, $fee) {
$cartItems = $this->cart->contents();
$i = 0;
$order_ref = $this-
>generate_random_string();
$tot = 0;
foreach($cartItems as $item) {
$orderData[$i]['u_id'] = $u_id;
$orderData[$i]['d_id'] = $item['id'];
$orderData[$i]['r_id'] = $item['r_id'];
$orderData[$i]['o_ref'] = $order_ref;

```

```

$orderData[$i]['d_name'] = $item['name'];
$orderData[$i]['quantity'] = $item['qty'];
$orderData[$i]['price'] = $item['subtotal'];
$orderData[$i]['d_fee'] = $fee;
$orderData[$i]['date'] = date('Y-m-d H:i:s',
now());
$orderData[$i]['success_date'] = $d;
$tot += $item['subtotal'];
$i++;}
if(!empty($orderData)) {
$orderDetails['u_id'] = $u_id;
$orderDetails['o_ref'] = $order_ref;
$orderDetails['price'] = $tot + $fee;
$orderDetails['address'] = $address;
$orderDetails['status'] = '';
$orderDetails['d_fee'] = $fee;
$orderDetails['date'] = date('Y-m-d H:i:s',
now());
$orderDetails['success_date'] = $d;
$this->Order_model-
>insertOrderDetails($orderDetails);
$insertOrder = $this->Order_model-
>insertOrder($orderData);
if($insertOrder) {
$this->cart->destroy();
//return order id
return $insertOrder;}}
return false;}
function generate_random_string(){
$characters =
'23456789abcdefghijklmnopqrstuvwxyzABCDE
FGHIJKLMNOPQRSTUVWXYZ';
$randomString = '';
for($i=0;$i < 10;$i++){
$randomString .= $characters[rand(0,
strlen($characters) - 1)];}
return $randomString;}}

```

cashier.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Cashier extends CI_Controller {
public function __construct(){
parent::__construct();
$admin = $this->session->userdata('admin');
if(empty($admin)) {
$this->session->set_flashdata('msg', 'Your
session has been expired');
redirect(base_url().'admin/login/index');
}
}
public function index() {
$this->load->model('Cashier_model');

```

```

$cashiers = $this->Cashier_model-
>getCashiers();
$data['cashiers'] = $cashiers;
$this->load->view('admin/partials/header');
$this->load->view('admin/cashier/list',
$data);
$this->load->view('admin/partials/footer');
}
public function create_cashier() {
$this->load->model('Cashier_model');
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<pclass="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('username',
'Username','trim|required');
$this->form_validation-
>set_rules('firstname','First
Name','trim|required');
$this->form_validation-
>set_rules('lastname','Last
Name','trim|required');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('password',
'Password','trim|required');
$this->form_validation->set_rules('phone',
'Phone','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['username'] = $this->input-
>post('username');
$formArray['f_name'] = $this->input-
>post('firstname');
$formArray['l_name'] = $this->input-
>post('lastname');
$formArray['email'] = $this->input-
>post('email');
$formArray['password'] =
password_hash($this->input-
>post('password'),
PASSWORD_DEFAULT);
$formArray['phone'] = $this->input-
>post('phone');
$formArray['address'] = $this->input-
>post('address');
$this->Cashier_model->create($formArray);
$this->session->set_flashdata('success',
'Cashier added successfully');
redirect(base_url(). 'admin/cashier/index');
} else {
$this->load->view('admin/partials/header');

```

```

$this->load-
>view('admin/cashier/add_cashier');
$this->load->view('admin/partials/footer');
}
}
public function edit($id) {
$this->load->model('Cashier_model');
$cashier = $this->Cashier_model-
>getCashier($id);
if(empty($cashier)) {
$this->session->set_flashdata('error',
'Cashier not found');
redirect(base_url().'admin/cashier/index');
}
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<pclass="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('username',
'Username','trim|required');
$this->form_validation-
>set_rules('firstname','First
Name','trim|required');
$this->form_validation-
>set_rules('lastname','Last
Name','trim|required');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('password',
'Password','trim|required');
$this->form_validation->set_rules('phone',
'Phone','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['username'] = $this->input-
>post('username');
$formArray['f_name'] = $this->input-
>post('firstname');
$formArray['l_name'] = $this->input-
>post('lastname');
$formArray['email'] = $this->input-
>post('email');
$formArray['password'] =
password_hash($this->input-
>post('password'),
PASSWORD_DEFAULT);
$formArray['phone'] = $this->input-
>post('phone');
$formArray['address'] = $this->input-
>post('address');
$this->Cashier_model-
>update($id,$formArray);

```

```

$this->session->set_flashdata('success',
'Cashier updated successfully');
redirect(base_url(). 'admin/cashier/index');
} else {
$data['cashier'] = $cashier;
$this->load->view('admin/partials/header');
$this->load->view('admin/cashier/edit',
$data);
$this->load->view('admin/partials/footer');
}
}
public function delete($id) {
$this->load->model('Cashier_model');
$cashier = $this->Cashier_model-
>getCashier($id);
if(empty($user)) {
$this->session->set_flashdata('error',
'Cashier not found');
redirect(base_url().'admin/cashier/index');
}
$this->Cashier_model->delete($id);
$this->session->set_flashdata('success',
'Cashier deleted successfully');
redirect(base_url().'admin/cashier/index');
}
}

```

delivery.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Delivery extends CI_Controller {
public function __construct(){
parent::__construct();
$admin = $this->session->userdata('admin');
if(empty($admin)) {
$this->session->set_flashdata('msg', 'Your
session has been expired');
redirect(base_url().'admin/login/index');
}}
public function index() {
$this->load->model('User_model');
$deliveryFees = $this->User_model-
>getDeliveryFees();
$data['deliveryFee'] = $deliveryFees;
$this->load->view('admin/partials/header');
$this->load->view('admin/delivery/list',
$data);
$this->load->view('admin/partials/footer');}
public function create() {
$this->load->model('User_model');
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p class="invalid-
feedback">','</p>');

```

```

$this->form_validation-
>set_rules('firstname',
'Firstname','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['address'] = $this->input-
>post('address');
$formArray['fee'] = $this->input-
>post('firstname');
$this->User_model-
>createDeliveryFee($formArray);
$this->session->set_flashdata('success',
'Delivery fee added successfully');
redirect(base_url(). 'admin/delivery/index');
} else {
$this->load->view('admin/partials/header');
$this->load-
>view('admin/delivery/add_delivery');
$this->load->view('admin/partials/footer');
}}
public function edit($id) {
$this->load->model('User_model');
$deliveryFee = $this->User_model-
>getDeliveryFee($id);
if(empty($deliveryFee)) {
$this->session->set_flashdata('error',
'Delivery fee not found');
redirect(base_url(). 'admin/delivery/index');}
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p class="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('firstname','First
Name','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['address'] = $this->input-
>post('address');
$formArray['fee'] = $this->input-
>post('firstname');
$this->User_model-
>updateDeliveryFees($id,$formArray);
$this->session->set_flashdata('success',
'Delivery fee updated successfully');
redirect(base_url(). 'admin/delivery/index');
} else {
$this->load->view('admin/partials/header');
$this->load->view('admin/delivery/edit',
$data);
$this->load->view('admin/partials/footer');
}}public function delete($id) {
$this->load->model('User_model');

```

```

$user=$this->User_model->getDeliveryFees
($id);if(empty($user))$this->session-
>set_flashdata('error', 'Delivery fee not
found');
redirect(base_url(). 'admin/delivery/index');}$t
his->User_model->deleteDeliveryFees($id);
$this->session->set_flashdata('success',
'Delivery fee deleted successfully');
redirect(base_url(). 'admin/delivery/index');}}

```

rider.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Rider extends CI_Controller {
public function __construct(){
parent::__construct();
$admin = $this->session->userdata('admin');
if(empty($admin)) {
$this->session->set_flashdata('msg', 'Your
session has been expired');
redirect(base_url(). 'admin/login/index');
}
}
public function index() {
$this->load->model('User_model');
$riders = $this->User_model->getRiders();
$data['riders'] = $riders;
$this->load->view('admin/partials/header');
$this->load->view('admin/rider/list', $data);
$this->load->view('admin/partials/footer');
}
public function create_rider() {
$this->load->model('User_model');
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p class="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('username',
'Username','trim|required');
$this->form_validation-
>set_rules('firstname','First
Name','trim|required');
$this->form_validation-
>set_rules('lastname','Last
Name','trim|required');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('password',
'Password','trim|required');
$this->form_validation->set_rules('phone',
'Phone','trim|required');

```

```

$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['username'] = $this->input-
>post('username');
$formArray['f_name'] = $this->input-
>post('firstname');
$formArray['l_name'] = $this->input-
>post('lastname');
$formArray['email'] = $this->input-
>post('email');
$formArray['password'] =
password_hash($this->input-
>post('password'),
PASSWORD_DEFAULT);
$formArray['phone'] = $this->input-
>post('phone');
$formArray['address'] = $this->input-
>post('address');
$this->User_model-
>create_rider($formArray);
$this->session->set_flashdata('success',
'Rider added successfully');
redirect(base_url(). 'admin/rider/index');
} else {
$this->load->view('admin/partials/header');
$this->load->view('admin/rider/add_rider');
$this->load->view('admin/partials/footer');
}
}
public function edit($id) {
$this->load->model('User_model');
$rider = $this->User_model->getRider($id);
if(empty($rider)) {
$this->session->set_flashdata('error', 'User
not found');
redirect(base_url()).'admin/rider/index');
}
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p class="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('username',
'Username','trim|required');
$this->form_validation-
>set_rules('firstname','First
Name','trim|required');
$this->form_validation-
>set_rules('lastname','Last
Name','trim|required');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('password',
'Password','trim|required');
$this->form_validation->set_rules('phone',
'Phone','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['username'] = $this->input-
>post('username');
$formArray['f_name'] = $this->input-
>post('firstname');
$formArray['l_name'] = $this->input-
>post('lastname');
$formArray['email'] = $this->input-
>post('email');
$formArray['password'] =
password_hash($this->input-
>post('password'),
PASSWORD_DEFAULT);
$formArray['phone'] = $this->input-
>post('phone');
$formArray['address'] = $this->input-
>post('address');
$this->User_model-
>updateRiders($id,$formArray);
$this->session->set_flashdata('success',
'User updated successfully');
redirect(base_url(). 'admin/rider/index');
} else {
$data['rider'] = $rider;
$this->load->view('admin/partials/header');
$this->load->view('admin/rider/edit', $data);
$this->load->view('admin/partials/footer');
}
}
public function delete($id) {
$this->load->model('User_model');
$user = $this->User_model->getRiders($id);
if(empty($user)) {
$this->session->set_flashdata('error', 'Rider
not found');
redirect(base_url()).'admin/rider/index');
}
$this->User_model->deleteRiders($id);

$this->session->set_flashdata('success',
'Rider deleted successfully');
redirect(base_url()).'admin/rider/index');
}
public function fee() {
$this->load->view('admin/partials/header');
$this->load->view('admin/rider/fee');
$this->load->view('admin/partials/footer');
}
public function fee_update() {
$this->load->library('form_validation');

```

```

$this->form_validation-
>set_error_delimiters('<p      class="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('firstname',
'Firstname','trim|required');
if($this->form_validation->run() == true) {
$fee = $this->input->post('firstname');
$this->db->set('fee', $fee);
$this->db->where('id', 1);
$query = $this->db->update('rider_fee');
$this->session->set_flashdata('success',
'Rider Fee updated successfully');
redirect(base_url()). 'admin/rider/fee';
} else {
$this->session->set_flashdata('err', 'Invalid
Feedback');
$this->load->view('admin/partials/header');
$this->load->view('admin/rider/fee');
$this->load->view('admin/partials/footer');
}}
}

```

Admin.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Administrator extends CI_Controller {
public function __construct(){
parent::__construct();
$admin = $this->session->userdata('admin');
if(empty($admin)) {
$this->session->set_flashdata('msg', 'Your
session has been expired');
redirect(base_url()). 'admin/login/index';
}
}

public function index() {
$this->load->model('Administrator_model');
$administrators = $this-
>Administrator_model->getAdministrators();
$data['administrators'] = $administrators;
$this->load->view('admin/partials/header');
$this->load->view('admin/administrator/list',
$data);
$this->load->view('admin/partials/footer');
}

public function create_administrator() {
$this->load->model('Administrator_model');
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p      class="invalid-
feedback">','</p>');

```

```

$this->form_validation-
>set_rules('username',
'Username','trim|required');
$this->form_validation-
>set_rules('firstname','First
Name','trim|required');
$this->form_validation-
>set_rules('lastname','Last
Name','trim|required');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('password',
'Password','trim|required');
$this->form_validation->set_rules('phone',
'Phone','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['username'] = $this->input-
>post('username');
$formArray['f_name'] = $this->input-
>post('firstname');
$formArray['l_name'] = $this->input-
>post('lastname');
$formArray['email'] = $this->input-
>post('email');
$formArray['password'] =
password_hash($this->input-
>post('password'),
PASSWORD_DEFAULT);
$formArray['phone'] = $this->input-
>post('phone');
$formArray['address'] = $this->input-
>post('address');
$this->Administrator_model-
>create($formArray);
$this->session->set_flashdata('success',
'Administrator added successfully');
redirect(base_url()).
'admin/administrator/index';
} else {
$this->load->view('admin/partials/header');
$this->load-
>view('admin/administrator/add_administrat
or');
$this->load->view('admin/partials/footer');
}

public function edit($id) {
$this->load->model('Administrator_model');
$administrator = $this-
>Administrator_model-
>getAdministrator($id);
if(empty($administrator)) {

```

```

$this->session->set_flashdata('error',
'Administrator not found');
redirect(base_url().'admin/administrator/index');
$this->load->library('form_validation');
$this->form_validation-
>set_error_delimiters('<p      class="invalid-
feedback">','</p>');
$this->form_validation-
>set_rules('username',
'Username','trim|required');
$this->form_validation-
>set_rules('firstname',          'First
Name','trim|required');
$this->form_validation-
>set_rules('lastname',          'Last
Name','trim|required');
$this->form_validation->set_rules('email',
'Email','trim|required');
$this->form_validation-
>set_rules('password',
'Password','trim|required');
$this->form_validation->set_rules('phone',
'Phone','trim|required');
$this->form_validation->set_rules('address',
'Address','trim|required');
if($this->form_validation->run() == true) {
$formArray['username']   =   $this->input-
>post('username');
$formArray['f_name']     =   $this->input-
>post('firstname');
$formArray['l_name']     =   $this->input-
>post('lastname');
$formArray['email']      =   $this->input-
>post('email');
$formArray['password']   =   $this->input-
password_hash($this->input-
>post('password'),
PASSWORD_DEFAULT);
$formArray['phone']      =   $this->input-
>post('phone');
$formArray['address']    =   $this->input-
>post('address');
$this->Administrator_model-
>update($id,$formArray);
$this->session->set_flashdata('success',
'Administrator updated successfully');
redirect(base_url().'admin/administrator/index');
} else {
$data['administrator'] = $administrator;
$this->load->view('admin/partials/header');
$this->load->view('admin/administrator/edit',
$data);
$this->load->view('admin/partials/footer');
}

```

```

}
public function delete($id) {
$this->load->model('Administrator_model');
$administrator          =          $this-
>Administrator_model-
>getAdministrator($id);
if(empty($administrator)) {
$this->session->set_flashdata('error',
'Administrator not found');
redirect(base_url().'admin/administrator/index');
}
$this->Administrator_model->delete($id);
$this->session->set_flashdata('success',
'Administrator deleted successfully');
redirect(base_url().'admin/administrator/index');
}
}

```

reports.php

```

<?php
defined('BASEPATH') OR exit ('No direct
script access allowed');
class Reports extends CI_Controller {
public function __construct(){
parent::__construct();}
public function daily_sales(){
$this->db->select('SUM(price) as total,
DATE(success_date) as myDate');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y-m-
d'));
$this->db->group_by('myDate');
$this->db->order_by('myDate', 'ASC');
$query = $this->db->get('user_orders');
$data['daily'] = $query->result();
echo json_encode($data);}
public function weekly_sales(){
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y-m-
d').'-01-');
$query = $this->db->get('user_orders');
$data['mon'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y-m-
d').'-02-');
$query = $this->db->get('user_orders');
$data['tue'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');

```

```

$this->db->like('success_date', date('Y-m-d').'-03-');
$query = $this->db->get('user_orders');
$data['wed'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y-m-d').'-04-');
$query = $this->db->get('user_orders');
$data['thu'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y-m-d').'-05-');
$query = $this->db->get('user_orders');
$data['fri'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y-m-d').'-06-');
$query = $this->db->get('user_orders');
$data['sat'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y-m-d').'-07-');
$query = $this->db->get('user_orders');
$data['sun'] = $query->result();
echo json_encode($data);}
public function monthly_sales(){
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-01-');
$query = $this->db->get('user_orders');
$data['jan'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-02-');
$query = $this->db->get('user_orders');
$data['feb'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-03-');
$query = $this->db->get('user_orders');
$data['mar'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-04-');
$query = $this->db->get('user_orders');
$data['apr'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-05-');
$query = $this->db->get('user_orders');
$data['may'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-06-');
$query = $this->db->get('user_orders');
$data['jun'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-07-');
$query = $this->db->get('user_orders');
$data['jul'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-08-');
$query = $this->db->get('user_orders');
$data['aug'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-09-');
$query = $this->db->get('user_orders');
$data['sep'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-10-');
$query = $this->db->get('user_orders');
$data['oct'] = $query->result();
//jan
$this->db->select('SUM(price)');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y').'-11-');
$query = $this->db->get('user_orders');
$data['nov'] = $query->result();
//jan
$this->db->select('SUM(price)');

```

```

$this->db->where('status', 'closed');
$this->db->like('success_date', date("Y").'-12-
');
$query = $this->db->get('user_orders');
$data['dec'] = $query->result();
echo json_encode($data);}
public function yearly_sales(){
$this->db->select('SUM(price) as total,
YEAR(success_date) as myDate');
$this->db->where('status', 'closed');
$this->db->like('success_date', date("Y"));
$this->db->group_by('myDate');
$this->db->order_by('myDate', 'ASC');
$query = $this->db->get('user_orders');
$data['yearly'] = $query->result();
echo json_encode($data);}
public function best_seller_daily(){
$this->db->select('d_id, SUM(quantity) as
total, d_name');
$this->db->where('status', 'closed');
$this->db->like('success_date', date('Y-m-
d'));
$this->db->order_by('d_id', 'ASC');
$this->db->group_by('d_id');
$this->db->where('status', 'closed');
echo json_encode($data);}

```

```

$this->db->limit(10);
$query = $this->db->get('user_orders');
$data['best'] = $query->result();
echo json_encode($data);}
public function best_seller_monthly(){
$this->db->select('d_id, SUM(quantity) as
total, d_name');
$this->db->where('status', 'closed');
$this->db->order_by('d_id', 'ASC');
$this->db->like('success_date', date("Y-m"));
$this->db->group_by('d_id');
$this->db->limit(10);
$query = $this->db->get('user_orders');
$data['best'] = $query->result();
echo json_encode($data);}
public function best_seller_yearly(){
$this->db->select('d_id, SUM(quantity) as
total, d_name');
$this->db->where('status', 'closed');
$this->db->order_by('d_id', 'ASC');
$this->db->like('success_date', date("Y"));
$this->db->group_by('d_id');
$this->db->limit(10);
$query = $this->db->get('user_orders');
$data['best'] = $query->result();

```

Developer's Biodata

Name : Ma. Nelia P. Wagas
Place of Birth : Buenasuerte, Pilar Bohol
Birth Date : August 27, 1999
Age : 22 yrs. old
Home Address : Buenasuerte, Pilar Bohol
Email Address : nelia.wagas.09@gmail.com
Religion : Roman Catholic
Citizenship : Filipino
Father's Name : Arnil P. Wagas
Mother's Name : Ofelia P. Wagas

**EDUCATIONAL BACKGROUND**

Elementary : Buenasuerte, Elementary School
 : Buenasuerte, Pilar Bohol
 2011-2012

Secondary : Pilar Technical Vocational High School
 Poblacion, Pilar, Bohol
 2017-2018

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

Work Experience : On the Job Training
 Department of Agriculture, LGU Pilar, Bohol
 Emmersion Galeria Luisa

Developer's Biodata

Name : Shiela B. Duyac
Place of Birth : Del Pilar, Pilar Bohol
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EDUCATIONAL BACKGROUND

Elementary : Del Pilar, Elementary School
 Del Pilar, Pilar Bohol
 2007-2008

Secondary : Sierra Bullones Technical Vocational High School
 Salvador, Sierra Bullones Bohol
 2012-2013

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

Work Experience : On the Job Training
 Human Resource, LGU Pilar, Bohol
 Cashier at Gaisano Grand Mall, Talamban, Cebu City

Developer's Biodata

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EDUCATIONAL BACKGROUND

Elementary : Inaghuban, Elementary School
 Inaghuban, Pilar Bohol
 2011-2012

Secondary : Pilar Technical Vocational High School
 Poblacion, Pilar Bohol
 2017-2018

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

Work Experience : On the Job Training
 Accounting Office, LGU Pilar, Bohol

Developer's Biodata

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Elementary : Bicao, Elementary School
 Bicao, Carmen Bohol
 2004-2005

Secondary : Amb. Pablo R. Suarez National High School
 Bicao, Carmen Bohol
 2010-2011

Tertiary : Bachelor of Science in Computer Science
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 Zamora, Bilar Bohol
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