WEB-BASED FOOD CART OF BKU RESTO AND CAFE
ZAMORA, BILAR, BOHOL

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

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June 2022

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

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


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Renel Jairus C. Busano
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June 2022

APPROVAL SHEET

This thesis entitled **"Web-Based Food Cart of BKU Resto and Café of Zamora, Bilar, Bohol"** prepared and submitted by *Ruffa Mae O. Camposo, Renel Jairus C. Busano, Christian Rey C. Cailing and Chona M. Vistal* 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.
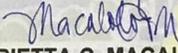
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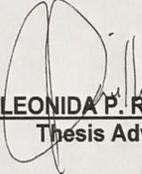
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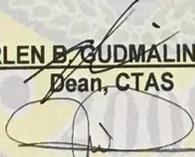LEONIDA P. REVILLA
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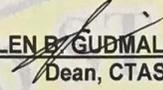
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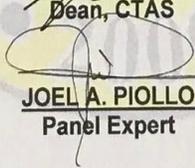
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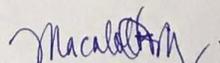
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ABSTRACT

The main purpose of the study is to develop a system called Web-Based Food Cart of BKU Resto and Café located at Zamora, Bilar, Bohol. At present BKU is still using manual operation in ordering and recording products. The analysis and development of the system are guided by analyzing the existing operations and procedure of the business. The analysis find out that the present system encountered problems such as difficulty in product order, reservation, delivery process, administration, customer management data, and unsecured data where data is written and stored in folders and limited coverage of advertisement. The system was developed with the following modules; online mechanism, acquisition, advertisement, ordering, payment, administration and generation of reports. During the testing and implementation standard web usability questionnaire was used for evaluation. Based from the result of the evaluation, the respondent or the users find the rate of 4.6 or an "Excellent" rating to the system indicating the achievement of individual expectation particularly on the features such as ease of use, visual clarity, language and its application in general. The result gave positive feedback as to system had improve the ordering and distribution management efficiency as well as recording and inventory and it's the requirement and expectations of the client. Thus, it is highly recommended to implement the Web-Based Food Cart of BKU Resto and Café, Zamora, Bilar, Bohol.

Chapter 1

THE PROBLEM AND ITS SCOPE

Rationale

With the growth of new technology, a plethora of new chances on the internet are becoming available. Because of the internet, a large number of enterprises and companies are now able to start their operations with ease. An online food ordering system is one of the enterprises that the internet has offered. In today's world, many restaurants prioritize swift preparation and delivery of orders over providing a full eating experience (Chavan et al., 2015).

BKU Resto and Cafe is located near the BISU Bilar Campus in Zamora, Bilar, Bohol. BKU has been operating since July 2019 and is open from 10:00 a.m. to 8:00 p.m. daily. They had seven active employees and could serve hundreds of consumers every day. BKU provides high-quality foods and beverages that satisfy customers' appetites at an accessible price, ensuring that each client is satisfied. They also had a surprise on-wheels service that helped them gain notoriety in Bohol.

The current ordering system at BKU Resto and Cafe is using manual a method that require a significant quantity of people to execute. Customers will take orders and write in an order slip, and then wait for their meals to arrive, being entertained late may cause a customer to be dissatisfied. BKU also used a Facebook page where clients could browse and select from a variety of menus, but they had to contact the employees by messenger or text message to take and

confirm the meals they wanted to order, which could result in duplicate and missed orders.

With the identified problems and needs, the developer aims to develop a "Web-based Food Cart of BKU Resto and Cafe" that will help the resto reduce the amount of manpower needed for ordering tasks. At the same time, it will reduce the monthly cost of the restaurant. This will allow an easy ordering system of the restaurant. It also improves the method of taking orders from the customer, as they can easily place their orders as per their wish using the system. The ordering system provides convenience, availability, and integrity to BKU Resto and Cafe. The system also can generate daily, monthly, and yearly sales as well as determining which menu has the most sales.

Literature Background

The development of the computerized system was anchored on Article XIV Section 2 of the 1987 Constitution of the Republic of the Philippines states that:

> *Science and Technology are essential for national development and progress. The State shall give priority to research and development, 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 system and national life.*

The State should recognize the use of technology in nation-building, such as the use of computerization in promoting and expanding tourism by improving service delivery in restaurants, hotels, and resorts. Businesses must integrate with cutting-edge technology so that they can easily react to difficulties and changes in order to boost the country's economy. The website must be capable of providing

trustworthy information to site visitors as well as accepting accurate data of various orders from customers into the database. As an advertising medium for Barato Kaysa sa Uban (BKU) Resto and Café, the system must be adaptable to minor adjustments.

Transaction processing theory states that transaction is a logical unit of database processing that includes one or more access operations (read-retrieve, write-insert, or update, delete), or it is a study of a set operations, each transaction must succeed or fail as complete unit it cannot remain in an intermediate state. Transaction processing is design to maintain a database integrity in a known, consistent by ensuring that any operations carried out on the system that are independent are either all completed successfully or all cancelled successfully (Elmasri & Navareth, 2007). A website or an online ordering system must be able to provide inferable information to the viewer of the site. The system must also be flexible, transaction processing theory we're used as foundation for the creation of the study.

Consideration of the websites design and operations are dependent upon the nature of business activities and target consumers. A website must be simple and focused site to succeed. One that is easy to build, maintenance-free, low cost, trustworthy, and a powerful traffic-builder and customer-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 foremost consideration. Website designers must balance design

considerations and capabilities with client objectives and the consumer's level of understanding in the modern technology (Geissler, 2001).

According to De Leon (De Leon, 2008) mentioned that there are several aspects that should be included in a good, automated ordering system. System should be simple to navigate, not clustered and easy to make an order. (Sharma, 2007) designed with professionals looking with search engines optimize capability and available 24/hours. The system should also have a secure payment gateway to protect their customers' credit card information, fast and keep track on orders and sales history easily as well as generate a comprehensive sales report.

Various business already has a website and online ordering management system. There were related system serves as a reference, among these related sources are the following:

1. Digital Ordering System for Restaurant Using Android **(**Ashutosh et al., 2013) states that the Digital Ordering System for Restaurants Using Android (DOSRUA) is an integrated system that was intended to assist restaurant management groups by allowing customers to place orders on their own time. This will cut down on the length of time it takes to serve the dish. Also stated is that the basic scope of the Restaurant Menu and Ordering System encompasses three related ideas. First is concerned with the electronic replacement of paper-based menus, the second with a corresponding electronic strategy for handling a customer's order at the front of house, and the third with the process of transmitting those electronic orders to the kitchen for preparation. Ordering, Waiting, Billing, Home Delivery, and

Advertisement are some of the elements that included in the develop system.

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.

3. Tommy Furniture Online Ordering System (Camba et al., 2013). States that their system is intended to advertise and promote an assortment of furniture offered, allowing the customer to pick out which furniture they want to purchase and the ability to check out and pay for the items and services rendered. The system is comprised of two interfaces: one is the customer's portal to all available items and services offered by the company with the ability to order and conduct online payments, while the other is the portal to the administration site.

4. McDonald's self-ordering kiosks (2015) the kiosks are part of McDonald's NXTGEN modernization program, and are intended to provide customers with a digitized option to ordering and paying for their McDonald's favorites as well as a more streamlined transaction procedure. After that, orders are processed and claimed at the counter.

5. Online Pizza Ordering System. This online system allows the customers to order multiple and different kinds of pizza. The customers can view the catalogue where the pizza products can be seen. Before ordering, the

customer will log in in first. In order, the customer will just click the pizza icon and click the buy button. The online payment is using PayPal. The system also shows the delivery schedule, place, and order details before the ordering process is confirmed following the agreement. It features the yearly sales report of the system. The similarities in this system with the developed system is that it allows the customer to order multiple and different dishes in the resto and cafe. It allows the customer to view the menu catalogue, it also shows the delivery schedule, place, and order details before the ordering process.

The existence of these systems serves as the basis of the developers in improving the proposed system. This will help and guide the developers on how to improve the manual management of the present system used by BKU Resto and Cafe.

THE PROBLEM

Statement of the Problem

The main purpose of the study was to develop a Web-based Food Cart of BKU Resto and Café located at Zamora, Bilar, Bohol

Specifically, the researchers sought to answer the following questions:

1. What are the current processes involved in sales and ordering of BKU Resto and Cafe?

2. What are the problems and needs in the ordering operations of BKU Resto and Cafe?

3. What is the possible solution to the problem encountered?

4. What is the level of system acceptability as perceived by the target users?

The proposed system is to be called BKU Resto and Cafe Online Ordering System 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. advertisement,

   c. ordering,

   d. payment,

   e. administration, and

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

Scope and Delimitation

The study focused on Sales and Ordering of BKU Resto and Café. The following were the scope of the proposed system.

1. **Online Mechanism**- This provides the official website of BKU Resto and Café which the customer may access to get information about the menus and description as well as the corresponding prices.
2. **Acquisition** – This facilitates the management of adding, updating deleting, searching of menus and information.
3. **Advertising**– This feature allows BKU to promote their business menus and showcase their specialties.
4. **Ordering**- This module facilitates the ordering process of BKU Resto and Café and its customers.
5. **Payment**- 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 function that provides electronic reporting to serve the strategic management of the system. It generates daily, monthly, and yearly sales report as well as determining which menu has the most sales.

The developed system covers the advertising and promotion of the Resto, easy ordering for the customer. The processes are limited to the owner and cashier who will be using the developed system.

Significance of the Study

The system would help the management improve the process of sales and ordering of the Resto, and it also promotes easy access, effective advertising to the customer. Thus, it would integrate process that could perform faster and more accurate than a manual process.

Furthermore, the study would benefit the following:

Owner. The owners of the business would be the one to monitor, manage and maintain the system. As the primary beneficiary of the proposed project. It would be easy for them to manage their customers and their food menu. It is a great advantage for a business owner to have a website to easily sell and advertise their products and services online.

Cashier. The cashier would be the stand-in personnel who accepts the order and manages the system in case the owner has some important matters to attend to and isn't able to make it to the restaurant. He/she would gain similar experience in financial and order management.

Customers. This study could help the customer lessen their time and give convenience in ordering food without the real-time queuing, and this would ensure product authenticity.

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

RESEARCH METHODOLOGY

Development Framework

Figure 1.0 shows the conceptual diagram of the system. It represents the model of the study that follows the principle of input-process-output. These inputs are coming from the owner, cashier and the customer. The process includes the Acquisition, Advertisement, Ordering, Payment, Administration, and Reports. The output provides decision support to the owner.
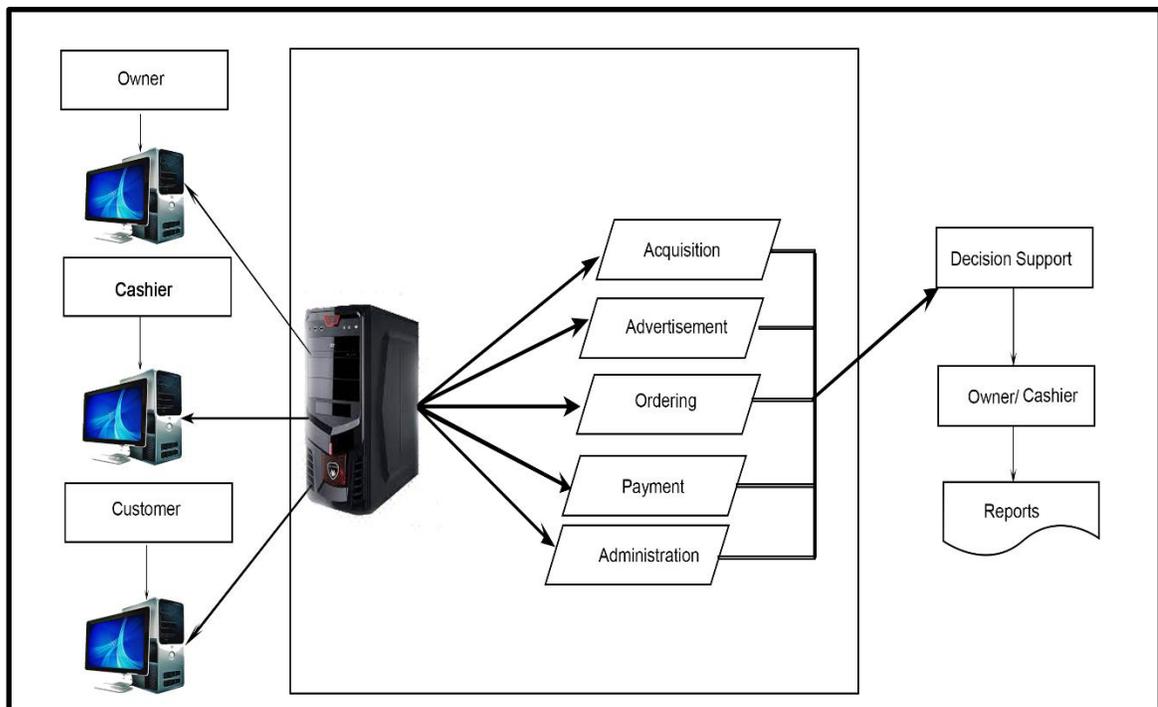
Figure 1.0 Conceptual Diagram of the Proposed System

Figure 2.0 shows the block diagram of the Web-based Ordering. This covers the basic functionality of the system, the customer management data, and other functions such as generating reports of every transaction.
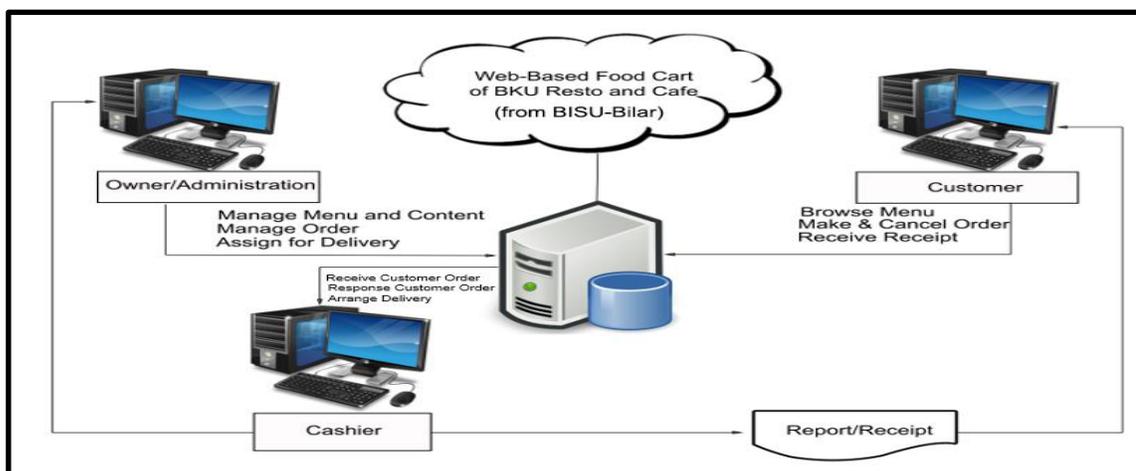
Figure 2.0 Block Diagram of the Proposed System

Development Models and Approach

The Rapid Application Development (RAD) was used in implementing the BKU Online Food Ordering. RAD is a development strategy that emphasizes quick feedback and prototyping over extensive development and testing cycles. Developers can make several iterations and modifications to a software without having to start a new development schedule each time using rapid application development.

The Rapid Application Development (RAD) phases emphasized that if the developer will analyze the data gathered and separate it according to its perspective, use and make a design according to the gathered data. Developers will let the users evaluate the design to recognize the strength and weakness of the system. Users will also identify whether the process can evolve to reflect the changing organizational requirement to identify improvement. The developer will define the prototype together with the additional information provided by the user. The developer will make a new prototype and that will be evaluated by the user

again, the final prototype will be developed once the user satisfied. The developer will integrate the prototype to be used on the website. The developer will test the website in terms of its security, accuracy and its effectiveness and the website will be implemented by uploading it on the web.

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.
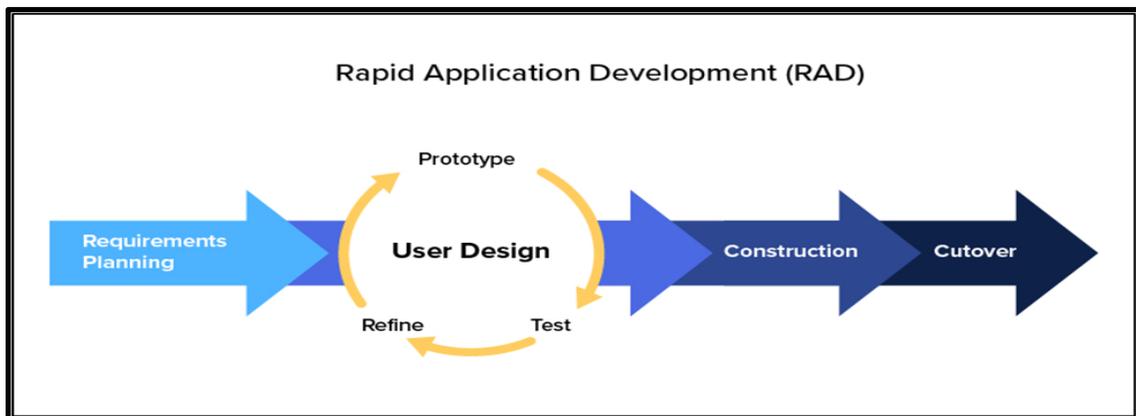
Figure 3. Rapid Application Development (RAD)

The following were the tools used during the analysis and design phase of the Web-based Food Cart Ordering System of BKU Resto and Cafe.

1. **Notepad++** – It's a free source code editor and notepad replacement that supports a various language and can be used to rewrite PHP scripts. This tool allows developers to readily make changes to the system while it is being developed.

2. **Hypertext Pre-processor (PHP)** – is an open-source web developer that can be used to design websites. It is a widely used general-purpose scripting language that is particularly well suited for Web development and can be embedded in HTML. It will be utilized in the development of BKU Online Food Ordering's scripting language.

3. **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

4. **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.

5. **jQuery** – is a script library that enables web developers to extend the functionality of their sites. It's open-source and available under the MIT license for free. It can also access data from the proposed database using scripting languages like PHP and ASP.

6. **JavaScript** – is a web-based scripting language that is widely used. It's used to make HTML code look better. It's also a language that's been intercepted. It renders web pages in the develop system in a dynamic and interactive manner.

7. **MySQL** – is an open-source database that enables the implementation of high-performance, scalable, and cost-effective Web-based and embedded database applications at a low cost. In the development of the proposed system, it will be utilized to connect databases.

8. **Wamp Server** – Web development is done in a windowed environment. It enables developers to create web applications using apache2, PHP, Python, or Perl, as well as the MySQL database, which is used to create applications for online viewing and data storage in the proposed system.

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 Basak Bistro Online Food Ordering System.

10. **Adobe Photoshop 2020** – is an image editing software that is going to be used in creating cohesive layout and theme for the proposed system.

11. **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 BKU Resto and Cafe owned by Mrs. Maria Ivon M. Buñao located at Zamora, Bilar, Bohol. It is 20 meters away from Bohol Island State University – Bilar Campus at Zamora, Bilar, Bohol. The participants of the study were the owner, cashier, and customers. These respondents were personally interviewed about the 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 asked for approval of Mrs. Maria Ivon M. Buňao, legal owner of BKU to conduct a study. A personal interview, was conducted to gather the needed information during the personal interview, guide

questions were used to ask the owner and cashier about the management and processes in the ordering of products including the problems encountered.

In the document review, different documents were evaluated such as record book, order slip, menu, etc.… The hard files were evaluated, including the different forms used in the recording. The format of each document was familiarized including its content.

The observation was also done in the cafe in order to get acquainted with the different processes and procedures in ordering the different available menus in BKU Resto and Café.

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

On the other hand, the respondents for web usability involve 25 persons. These respondents were the 1 IT Experts, 1 Owner, 3 Cashier, and 20 Customer. Table 1 shows the summary of respondents in the web usability.

Table 1

Summary of respondents in the Web Usability

Respondents	No. of Respondents
IT Expert	1
Owner	1
Cashier	3
Customer	20
Total	**25**

In web usability, the operation and features of the system were presented to all possible users. After the orientation 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 of the Massachusetts Institute of Technology (MIT, 1995). Table 2 shows the guide for the interpretation of the results in the web usability.

Table 2

Interpretation 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 syst7em acceptability 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 rate of 1

f_2 = frequency of respondents given rate of 2

f_3 = frequency of respondents given rate of 3

f_4 = frequency of respondents given rate of 4

f_5= frequency of respondents given rate of 5

n = total number of respondents

1, 2….5 = 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 in this study were defined further, respectively:

Administrator. A person in charge of computer systems, particularly multi-user computers, such as servers, setup, and reliable functioning.

BKU-Food Cart: An Online Food 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.

Customer. The persons that purchase different products from BKU and the one who help the companies to generate profits.

Developers. People in charge of writing the code that instructs a website how to work.

Input. It is called when a computer or device receives a command or signal from outside sources,

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

Output. Information processed by and sent out from a computer, a system/software, or other electronic device.

Owner. The persons that plan and organize the day-to-day operations of their business.

Process. The instance of a computer program that is being executed by one or many threads. It contains the program code and its activity.

Prototype. A rudimentary working model of a product or information 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 persons 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.

Chapter 2

PRESENTATION OF FINDINGS, ANALYSIS AND INTERPRETATION OF DATA

Existing Process and Operation

The ordering system of BKU Resto and Cafe is still using a manual method in accommodating the inquiry, report, and orders of the customers. The customers manually visit the shop to get the products they want or by visiting the BKU Resto and Cafe official Facebook page, which problems like loss of data may occur. The present system involves different processes:

A. Inquiry Process

Inquiries of the customers are made by visiting the shop. Information about the products was also posted in BKU Resto and Cafe official Facebook page, which also accommodates the inquiry of the future resellers who wish to become part of the BKU Resto and Cafe growing family.

B. Recording Process

The information about the products is stored in record book. 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 Record book. The owner keeps all the records of BKU Resto and Cafe's product information.

C. Ordering Process

Walk-in customers order products by simply visiting the Resto. The customer can also send their orders through text message and fb chat with strict payment policy. The customer can choose the payment mode either cash on delivery or by using Gcash.

D. **Payment Process**

The customer can pay their orders over-the-counter, Cash-on-Delivery, and via Gcash 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.

E. Delivery Process

Since BKU rider deliver the order to the customer's address. Upon arriving to the customer's home, he/she must hand over the exact amount of payment for the order to the delivery person. Upon delivery, they will be provided with a receipt, or shown a screenshot of their order transaction as proof of payment.

F. Generation of Products

The owner is responsible for making the daily, monthly, and yearly sales report and stored it in Reports Folder.
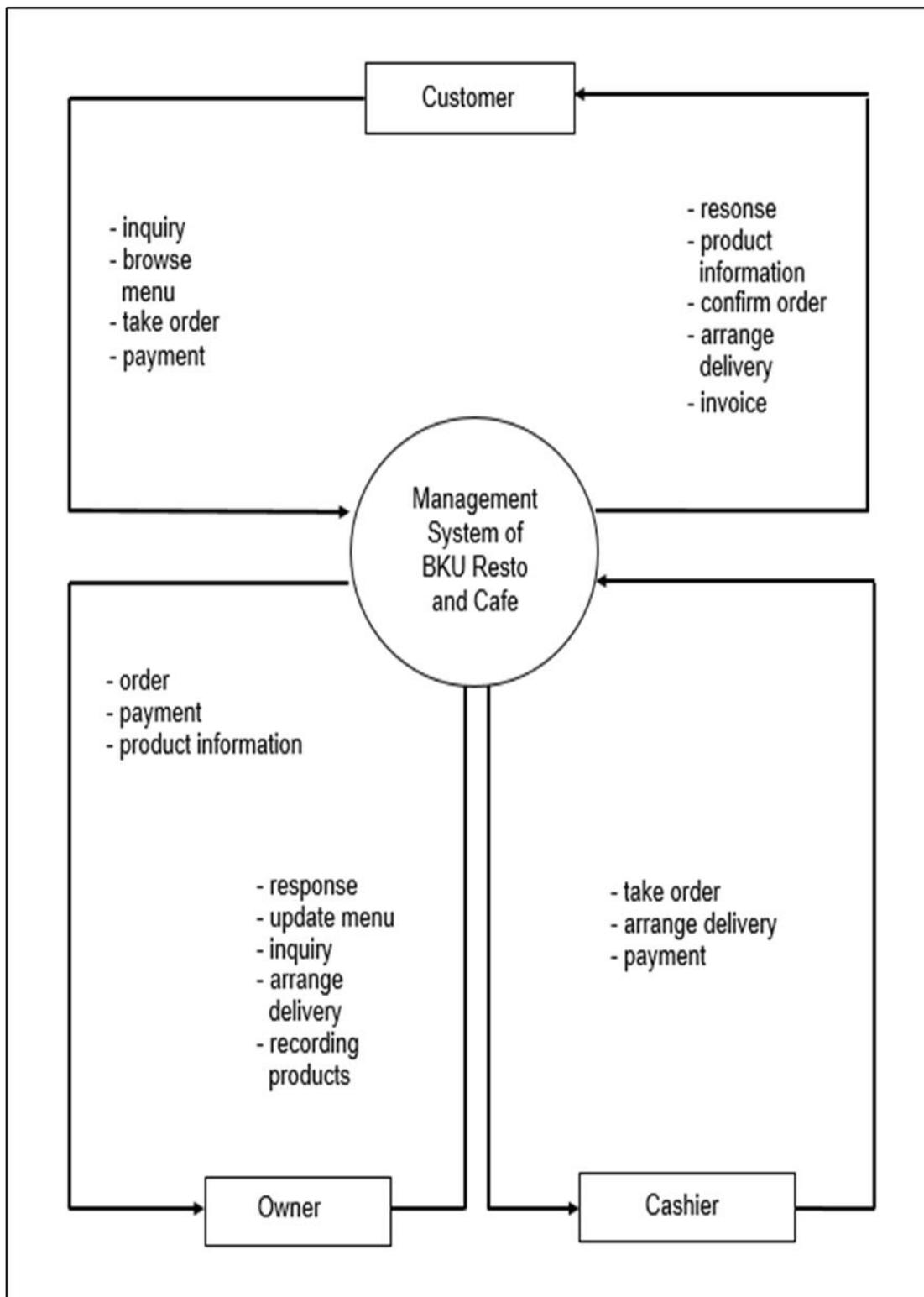
Figure 4. Contextual Diagram of the Present System

Event Specification

Event List:

1. Inquiry Process

2. Recording Process

3. Ordering Process

4. Payment Process

5. Delivery Process

6. Generation of Reports
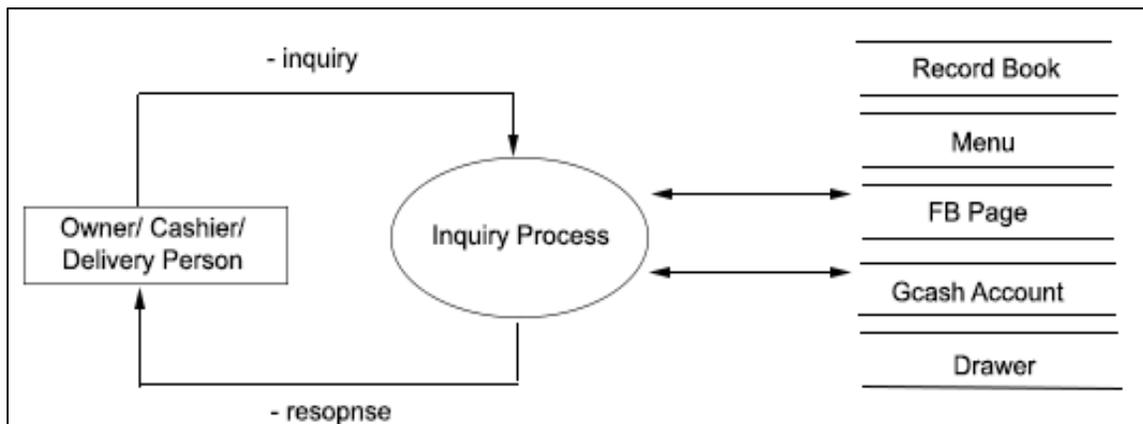
Figure 5 (Event 1). Customer Inquiry Process
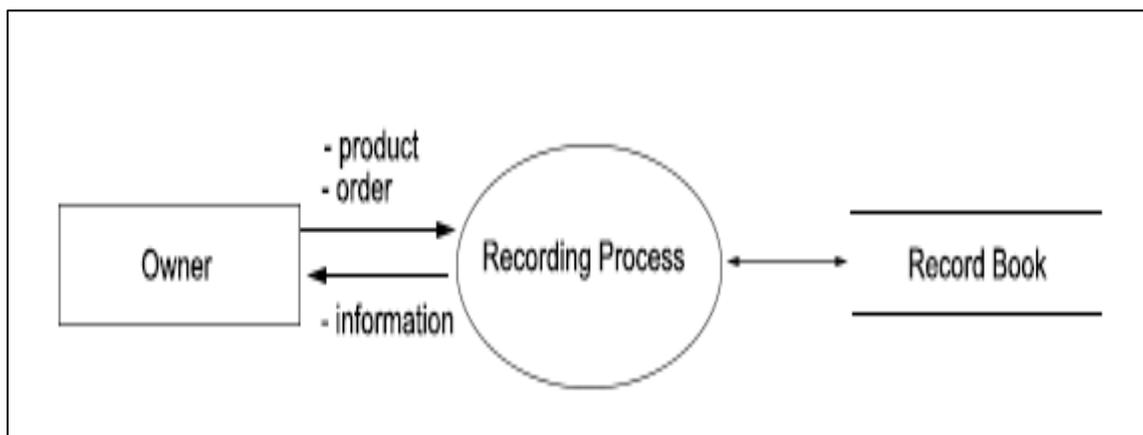
Figure 6 (Event 2). Owner Recording Process
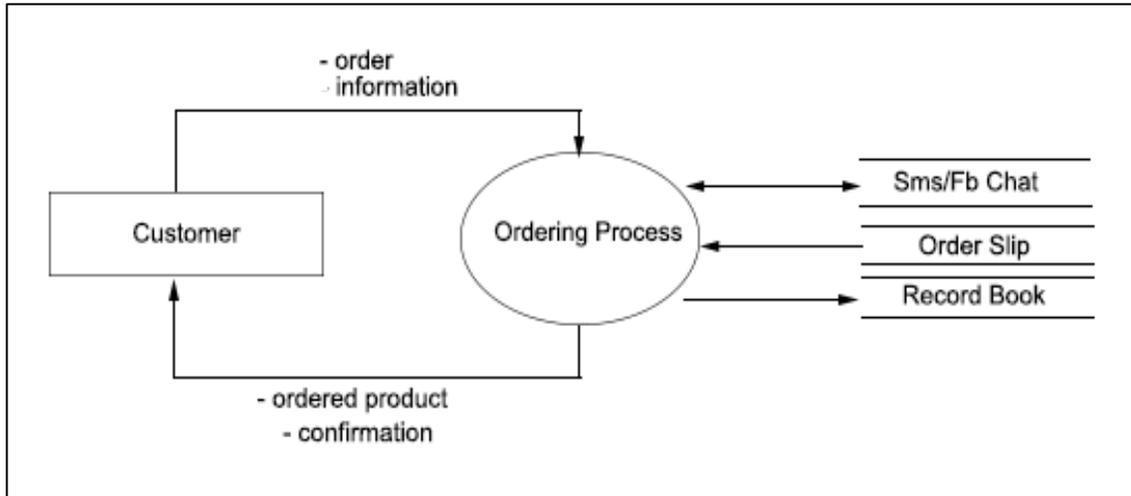
Figure 7 (Event 3). Customer ordering process
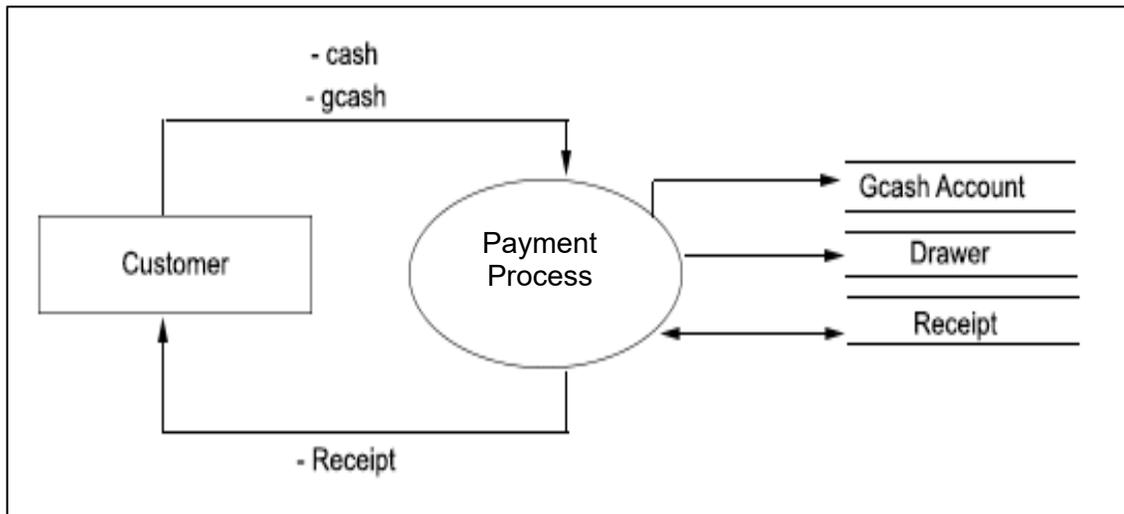
Figure 8 (Event 4). Customer payment process
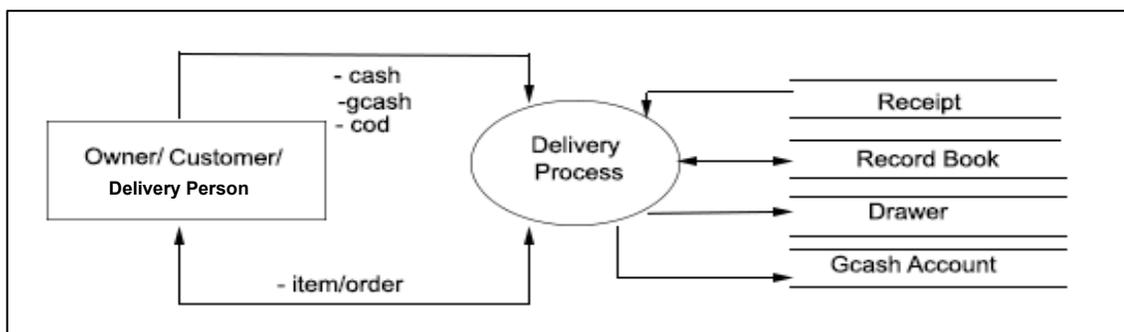
Figure 9 (Event 5). Delivery process
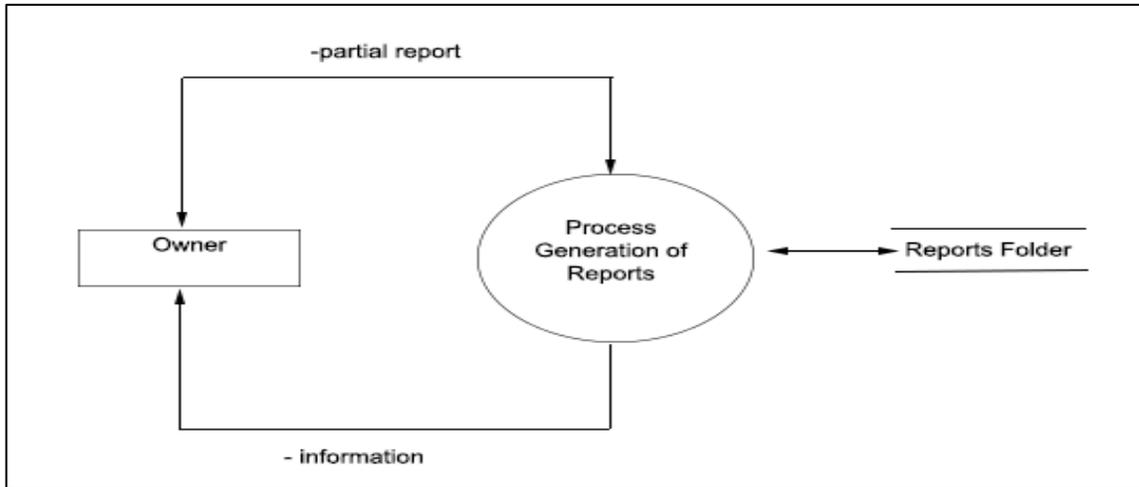
Figure 10 (Event 6). Owner generates report
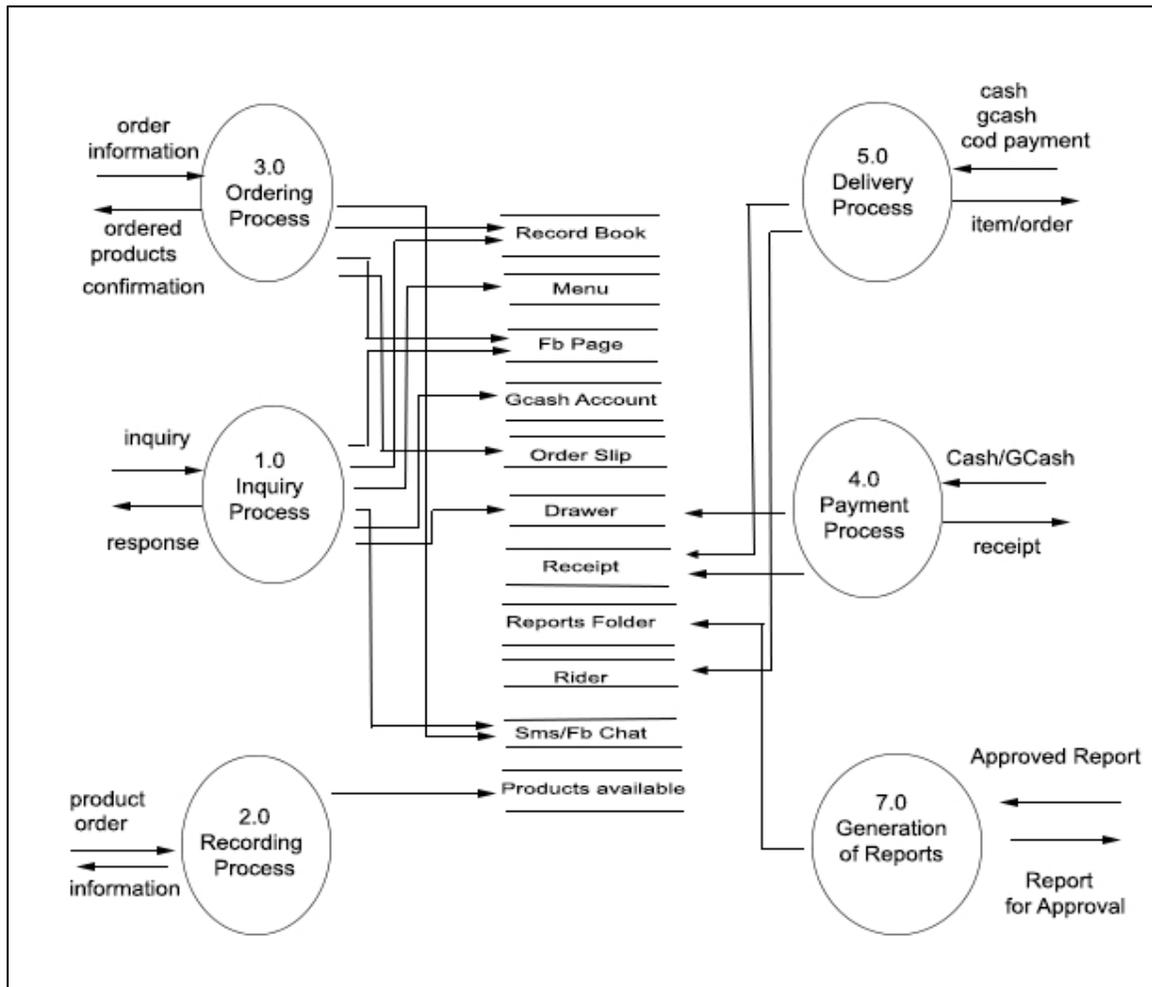
Figure 11. Top level of Present System

Needs of the Existing Operation

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

1. A platform for promotion, online purchase, and delivery of fast food.

2. A way to help customers save time so they do not have to wait in queues to get the food.

3. Adopt an online ordering system for fast and efficient data management.

4. Provide convenience in facilitating end user's orders.

5. Widen the coverage of advertisement method in a more interactive, convenient and efficient way.

6. Provide electronic reporting to serve the strategic management of the system.

Web-based Food Cart of BKU Resto and Café located at Zamora, Bilar, Bohol

The needs of the present system serve as the basis for the development of the features of the Ordering Management System of BKU Resto and Cafe. This study was expected to address the problems encountered in the present system.

A. **Ordering**

The customers inquire for the availability of the product that he or she wishes to purchase.

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.

C. **Payment**

The customer can pay their orders over-the-counter, Cash-on-Delivery, and via GCash 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.

D. **Advertisement**

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

E. **Reports**

The system can generate daily, monthly, and yearly sales report as well as determining which menu has the most sales.

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 United Modeling Language as an actor) and a system to achieve a goal. The actor can be a human or other external system. The detailed requirements may then be captured in the Systems Modeling Language (SysMl.) or as contractual statements.
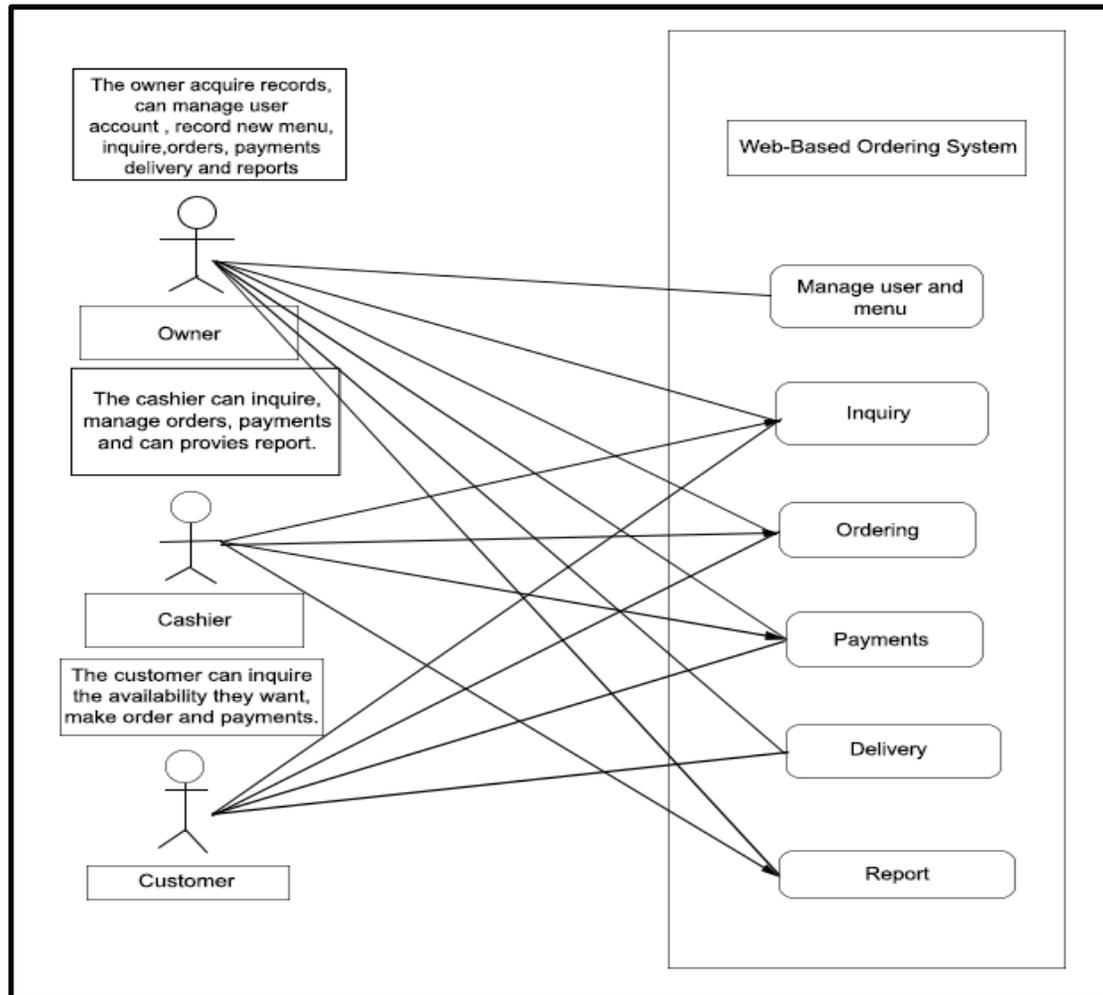
Figure 11. Use Case Diagram of Web- Based Ordering System of BKU Resto and Café

Use case narrative describing a use case that requires both the frame context of the use case and describe the dialogue between the user (actor or use case) and use case. In every use case narrative, there are preconditions, process and post-conditions. Use case 1 is management of users and menus where owner can add and delete users, as well as the adding, updating, and deleting of menus. Use Case 2 is inquiring or searching of available products. Use Case 3 is ordering wherein a customer can place an order. Use Case 4 is payments which will be

provided by the customer and is accepted delivery person. Use case 5 is delivery wherein the delivery person delivers the customer's order, receive payment and confirm the delivery transaction. Use Case 6 is report management owner can view the product information for the sales in the web.

Table 4. Use Case 1 Narrative – Manage User and Menu

Manage User (UC1)	
Scope Level Goal in Context	Web-based Food Cart User Goal
Primary Actors	Owner adds and manage system user. Owner: Wants to add and manage system muser.
Preconditions Triggers Success Guarantee	Enter the required information. Owner: Add and manage system user. Web-based Food Cart: Waits for user input
Main Success Scenario:	
Owner:	Add and manage user information. The system displays the information they entered.

Table 5. Use Case 2 Narrative – Inquiry

Inquiry (UC2)	
Scope Level Goal in Context	Web-based Food Cart User Goal Present a menu from which one can search available product and view order information
Primary Actors	Customer & Owner Customer: Wants to enter and view the available product, product information and order information. Owner: Wants to give the customer menu information through the system.
Preconditions Triggers	Enter the required information. Customer: Select product on the menu then select the product to view product information. Owner: Add product information
Success Guarantee	Web-based Food Cart: Waits for user input
Main Success Scenario:	
Customer: Owner:	Selects the product for the menu and search for desired product information. Adds item information for the customers to see.

Table 6. Use Case 3 Narrative – Ordering

Ordering (UC3)	
Scope Level Goal in Context	Web-based Food Cart 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 Triggers	Enter the required information. Owner: Select product from the menu and select product to add to cart then choose payment method click place order and view order detail. Cashier: Select product from the menu and select product to add to cart then choose payment method click place order and view order detail. Customer: Select product from the menu and select product to add to cart then choose payment method click place order and view order detail.
Success Guarantee	Web-based Food Cart: Waits for user input
Main Success Scenario:	
Owner:	Select product from the menu and select product to add to cart then choose payment method click place order and view order detail.
Cashier:	Select product from the menu and select product to add to cart then choose payment method click place order and view order detail.
Customer:	Select product from the menu and select product to add to cart then choose payment method click place order and view order detail. The system displays the information they entered.

Table 7. Use Case 4 Narrative – Report

Report (UC3)	
Scope Level Goal in Context	Web-based Food Cart 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 Triggers Success Guarantee	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. Web-based Food Cart: Waits for user input
Main Success Scenario:	
Owner: Cashier:	Select product on the menu then manage product detail. Select product on the menu then manage product detail. The system displays the information they entered.

Table 8. Use Case 5 Narrative – Payment

Payment (UC5)	
Scope Level Goal in Context	Online Food Ordering 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 payment. Customer: Pick his desired payment option and pays the exact amount if his order to the delivery person.
Succes Guarantee	Web-based Food Cart: Waits for user input

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 – Delivery

Delivery (UC6)	
Scope Level Goal in Context	Web-based Food Cart 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	Web-based Food Cart: Waits for user input
Main Success Scenario:	
Customer: Delivery Person: Web-based Food Cart:	Select payment method. Wait for the order to be delivered by the delivery person. Will deliver customers order and receive payment and will confirm the delivery transaction. Waits for user input

Database Design

Database design is an essential activity in the system development cycle. It is a process of defining the architecture components, modules, interfaces, and data for the system to meet the satisfying requirements. The application of systems theory to product development could referred to as system design. In order to

enhance the present information system, the researchers designed a new system that the client would use in each activity to improve the existing information system.

This would show the design of the developed system. Forms involve in recording and retrieval, inquiry as well as other operation 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 a system in terms of their actions, functions, and capabilities.

Class Diagram

In software engineering, a class diagram in the United States Modem Language (UML) is a type of static structure diagram that describes the structure of a system by showing the systems classes, their attributes, operational methods, and the relationships among objects.

The UML is a standardized modeling language enabling developers to specify, visualize, construct and document artifacts of a software system. Thus, UML makes these artifacts scalable, secure and robust in execution. UML is an important aspect involved in object-oriented software development. It uses graphic notation to create visual models of software systems. (Retrieved from https://www.techopedia.com/definition/3243/unified-modeling-language-uml).

User Account

user_id int (11)
user_fname varchar (100)
user_lname varchar (100)
email varchar (225)
phone varchar (10)
password varchar (225)
address text
user_type varchar (20)

Menu Category

r_id int (11)
name text
img text

Menu

d_id int (11)
name varchar (100)
about varchar (100)
price float
img text

Customer order

d_id int (11)
c_id int (11)
total price float
d_date
od date

Customer

c_id int (11)
username varchar (100)
f_name varchar (100)
l_name varchar (100)
email varchar (255)
phone varchar (20)
password varchar (255)
address varchar (100)

Figure 12. Class Diagram of the study

Data Structure

Figure A is a way of collecting and organizing data in such a way that we can perform operations on these data in an effective way. The data structure is about rendering data elements in terms of some relationship, for better organization storage. These are structure programmed to stored data so that various operations can be performed easily. The following tables on the next page are the database tables used in storing the information that is inputted in the system.

Table 8

Data Structure used for User Account

Field	Field Name	Type	Width	Description
1	user_id	int	11	User ID
2	user_fname	varchar	100	User Firstname
3	user_lname	varchar	100	User Lastname
4	Email	varchar	255	Email
5	password	varchar	255	password

Table 9

Data Structure used for Menu

Field	Field Name	Type	Width	Description
1	d_id	int	11	Menu ID
2	name	varchar	100	Menu Name
3	about	varchar	100	Menu Information
4	price	float		Menu Price
5	img	text		Menu Image

Table 10

Data Structure used for Menu Category

Field	Field Name	Type	Width	Description
1	r_id	int	11	Category ID
2	name	text	100	Category Name
3	img	text		Category Image

Table 11

Data Structure used for Customer

Field	Field Name	Type	Width	Description
1	c_id	int	11	Customer ID
2	username	varchar	100	Customer Username
3	f_name	varchar	100	Customer Firstname
4	l_name	varchar	100	Customer Lastname
5	email	varchar	100	Customer Email
6	phone	varchar	20	Customer Phone Number
7	password	varchar	100	Customer Password
8	address	varchar	100	Customer Address

Table 12

Data Structure used for Customer Orders

Field	Field Name	Type	Width	Description
1	d_id	int	11	Dish ID
2	c_id	int	11	Customer ID
3	total price	float		Total price
4	d_date			Delivery Date
5	od_date			Overdue Date

Program Hierarchy

Figure 17 is a simple hierarchy chart, showing the establishment's function

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

position 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.
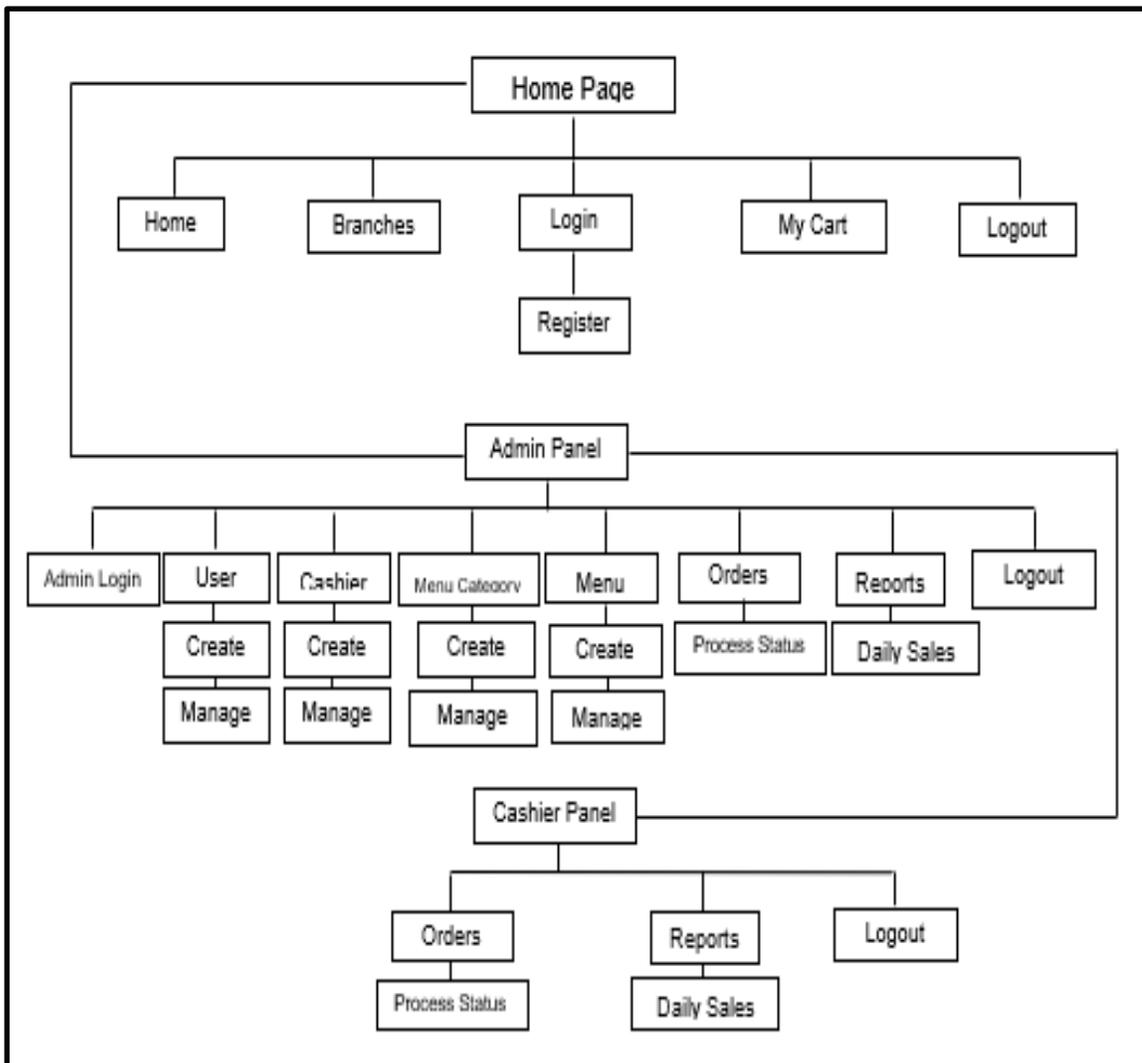
Figure 17. Program Hierarchy

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. A working prototype was developed to strategically capture requirements through constants communication with the owner of BKU Resto and Cafe. The functionalities mentioned are based on existing standard requirements of Web-Based Food Cart of BKU Resto and Cafe with the approval and coordination from the owner as follows:

Acquisition

FREQ 1: The system must allow the owner add menus and information.

FREQ 2: The system must allow the owner, and cashier to search for menus.

FREQ 3: The system must record each transaction into the database.

Advertisement

FREQ 4: The system must allow the owner to facilitate business menus to promote and showcase their specialties.

Ordering

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

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

Administration

FREQ 7: System must be password protected.

FREQ 8: To be able to access the system, the username and password provided should be matching.

FREQ 9: The system should allow the owner to have general access of the system including modules that are exclusive to admin access only.

FREQ 10: The system should allow the cashier to have partial access to the system in case the owner is not available.

Generation of Reports

FREQ 11: The system should provide the electronic reports for the decision support of the owner and cashier.

NON-FUNCTIONAL REQUIREMENTS

A non-functional 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 requirements that define specific behavior 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 Operating System.

3. The system must be accessible at all times.

4. The system should run with the hardware requirements.

TEST CASES

A test case is a set of conditions or variables under which a tester will determine whether an application or software system is working correctly or not, a detailed procedure that fully tests a feature or an aspect of a feature. It is also a set of input values, execution preconditions, expected results 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 users use the system and follow the instructions in each test case to test the developed system. The system should perform the expected result in each test case in order to be considered successful.

The "User account login" Test case 1 module for 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 features of the system, adding product, and adding user and cashier. Test case 3 is a module for customer wherein it is expected to order their products. The "Register Member/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 registering 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 wherein it is expected to add new product information in the database. Test case 2 is a module for updating product information wherein it is expected to update and edit product information in the database. Test case 3 is module for deleting items wherein it is expected to delete product information in the database.

The "Order/Purchased Management" Test case 1 is a module to view and confirm the orders of their customer wherein it is expected to confirm the order status in the database.

Finally, the "Reports" Test Case 1 is a module for generating the daily, monthly, ang yearly sales and generate the most saleable product of the resto. The following are the details of each test case:

User account login:

Test Case 1:

Module: Admin account

Severity: 1

Instructions:

1. On the URL type bkurestocafe.bisubilar.org/BKU_RC/Admin.

2. Input the username and password.

3. Click the option "Login" button.

Expected Result:

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

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

Test Case 2:

Module: Cashier

Severity: 1

Instructions:

1. On the bottom the link cashier login link in the admin panel.

2. Then click the option "Login" button.

Expected Result:

1. Users can access some modules not including adding product, adding user and cashier.

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

Test Case 3:

Module: Customer account.

Severity: 1

Instructions:

      1. On the webpage click login.

      2. Input username and password.

      3. Click the option "Login" button.

Expected Result:

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

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

Member/Customer Management

Test Case 1:

Module: Adding cashier

Severity: 1

Instructions:

      1. On the menu click the cashier then click create cashier.

      2. Input the needed fields.

      3. Then click the option "Submit" button.

Expected Result:

      1. Cashier is successfully added to the database.

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

Module for Customer:

Severity: 1

Instructions:

    1. On the webpage, click "Register".

    2. Input some needed fields.

    3. Then click the "Register" button.

Expected Result:

    1. Customer information was successfully added to the database.

Test Case 2:

Module: Updating Cashier

Severity 1:

    1. Click the "Edit" button on the right side of the name you want to update.

    2. Correct some of the fields.

    3. Then click the "Make Change" button.

Expected Result:

    1. The cashier successfully updated their information.

Module: Updating Customer

Severity: 1

Instructions:

    1. Click your name above.

    2. Select "My Profile", then fill the fields you want to update.

    3. After updating the field click the "Save Changes" button.

Test Case 3:

Module: Deleting cashier

Severity 1:

Instructions:

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

Expected Result:

     1. The cashier was successfully deleted.

Product Management:

Test Case 1:

Module: Product Information Management for "Adding new product" command.

Severity 1:

Instructions:

     1. On the main menu, click "Menu" button. Then select "Create Menu" in the submenu.

     2. Fill in the fields.

     3. Click the "Submit" button.

Expected Result:

     1. The product should be successfully submitted.

     2. The newly added product information should be displayed.

Test Case 2:

Module: Product Information Management for the "Search" command

Severity: 1

Instructions:

     1. On the upper right of the displayed products, there is a search box.

     2. Type the corresponding first letter of the product name in the search

textbox.

Expected Result:

    1. Product information should be successfully displayed.

Test Case 3:

Module: Product Information Management for "Update" command.

Severity 1:

Instructions:

    1. On the left side of the displayed products, click "edit" button for the product you want to change.

    2. Edit the fields you want to change.

    3. Click the option "Make Changes" button.

Expected Result:

    1. The product should successfully be updated.

Module: Product Information Management for "Deleting" command.

Severity 1:

Instructions:

    1. On the left side of the displayed products, click "trash" button for the product you want to change.

    2. A dialogue box will display to confirm the item you want to delete.

Expected Result:

    1. The product should successfully be deleted.

Module: Order Product

Severity 1:

Instructions:

    1. After you click the "checkout" button in your redirect to your menu details where you order.

    2. Choose payment method

    3. Then click the "Place Order" button.

Expected Result:

    1. Your order has been placed successfully and wait for the order confirmation.

Module: Sales Report

Severity 1:

Instructions:

    1. On the main menu, click "Report"

    2. Then view most sales on the report.

Expected Result:

    1. Display most saleable products of the day and view total sales reports.

TECHNICAL REQUIREMENTS

The evolution of computers continues in this generation. It has been a component of people's educational experiences. In business, school, government agencies, and at home, a computer can be a vital part of the learning process.

People choose hardware and software components, as well as how people are identified in the field. This is required for proper operation so that the system can perform to its greatest potential into fullest capacity.

The physical component of the computer processing unit (CPU) is referred to as the hardware component. The hard disk, RAM, motherboard, UPS, monitor, mouse and keyboard are all included in this. However, there were just three components that helped with data processing. The microprocessor, hard disk drive (HDD), and Random Access Memory (RAM). Thus, these components were just specified in the presentation.

Software is a term that describes the programs that a computer machine may read and execute when given a command. It's a series of instructions that the computer converts into a machine-readable format so that it may be processed. Furthermore, the software generates human-readable output which means output that can be understood by human.

People are users who will use the computer's programs. To achieve a successful result in information processing, the users should be able to use the system.

Minimum Hardware Specification

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

Component	Specification
Microprocessor	Any desktop/laptop with internet
Hard Disk Drive	connection on any internet browser
Random Access Memory	source

Minimum Software Specification

The Web-Based Food Cart of BKU Resto and Cafe, Zamora, Bilar, Bohol requires various software to function properly. This software was enumerated below with its corresponding specifications. 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 in different platform
Internet Browsers	Any internet platforms

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 BKU Resto and Café Zamora, Bilar, 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://bkurestocafebilar.bisubilar.org/BKU_RC/.

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 whole new level and get the right information. The system used the enterprise reporting, particularly tabular type of business intelligence 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 in the data of the report. The following reports show how the business intelligence was used in the system.

Preview 1, shows the view of Daily Sales Report presented in a bar chart.
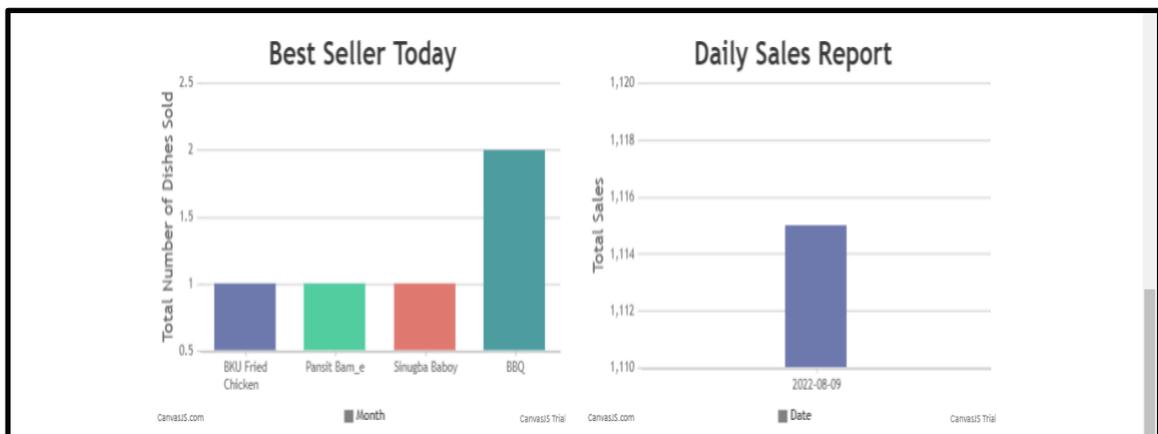
Preview 1. Daily Sales Report

Preview 2, shows the view of Monthly Sales Report presented in a bar chart.

Preview 2. Monthly Sales Report

Preview 3, shows the view of Monthly Sales Report presented in a bar chart.
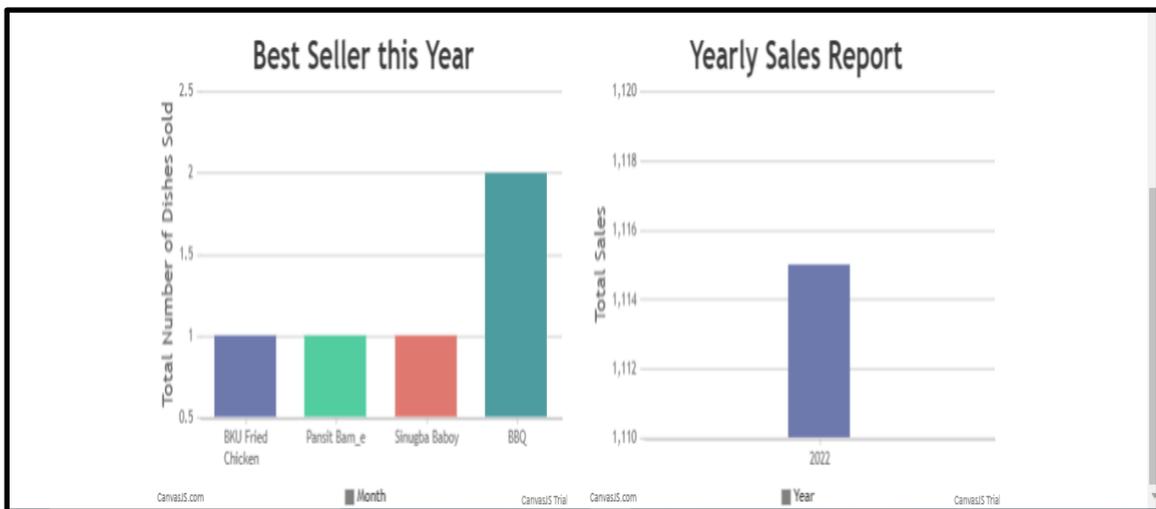
Preview 3. Yearly Sales Report

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.

Layout is defined as the particular way elements are arranged. In the case of interface design, the elements are the informational, functional, framing, and decorative parts of the screen. These element helps to guide and inform your users the relative importance of the information and function.

Preview 4, shows the homepage of the website.
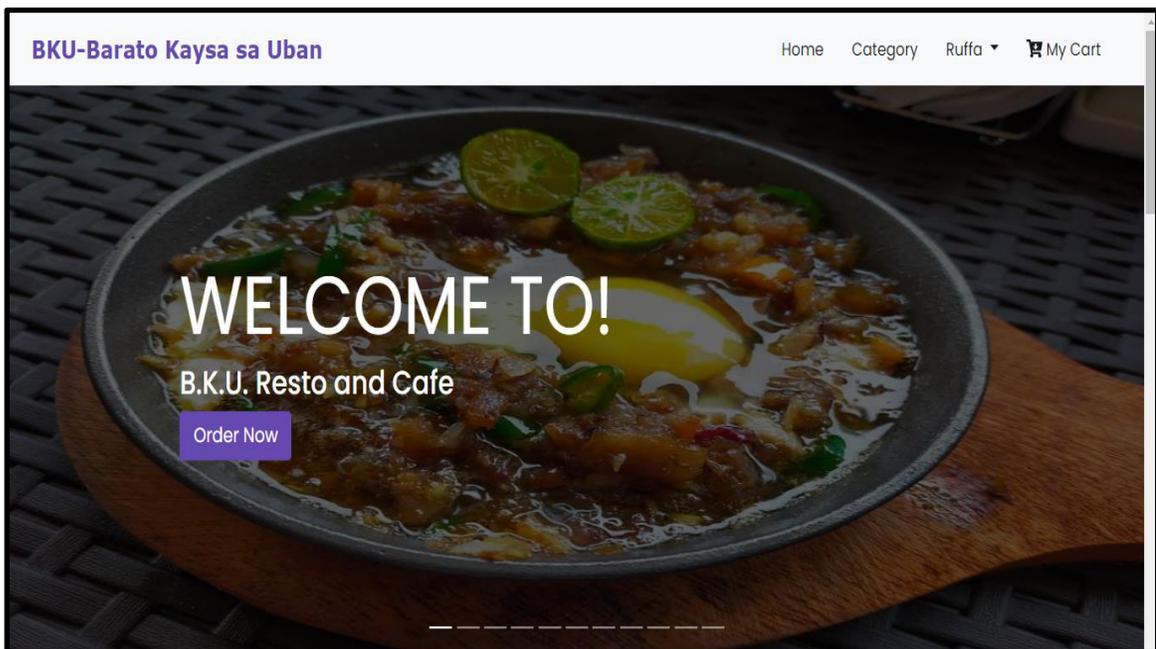
Preview 4. Homepage of the website

Preview 5, shows the customer registration panel

Preview 5. Customer Registration

Preview 6, shows the customer's login page of the website
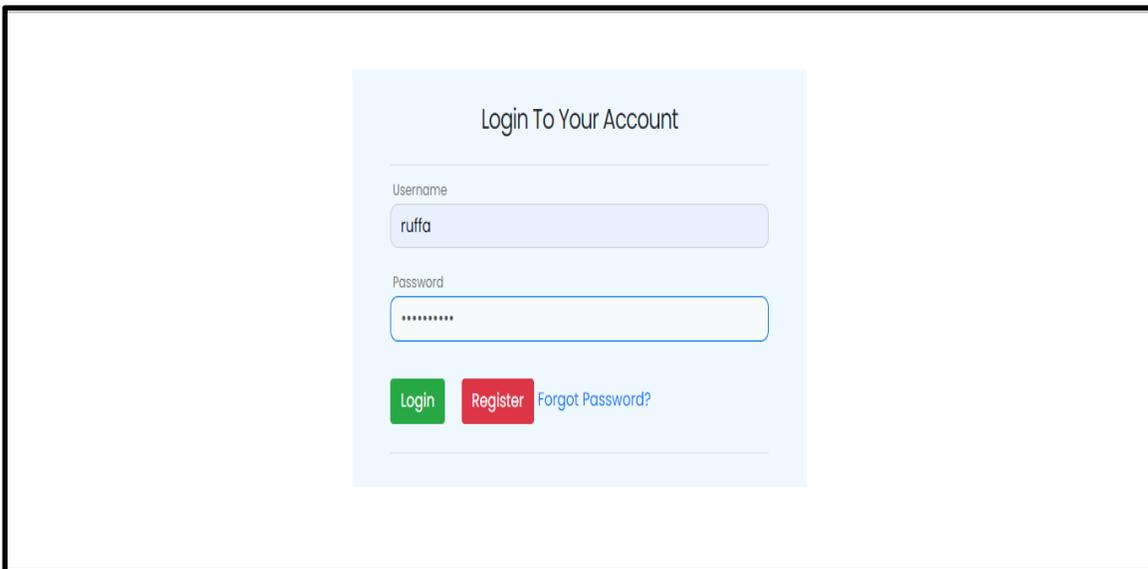
Preview 6. Customer Login

Preview 7, shows the forgot password module where the customer can receive recovery password via email.
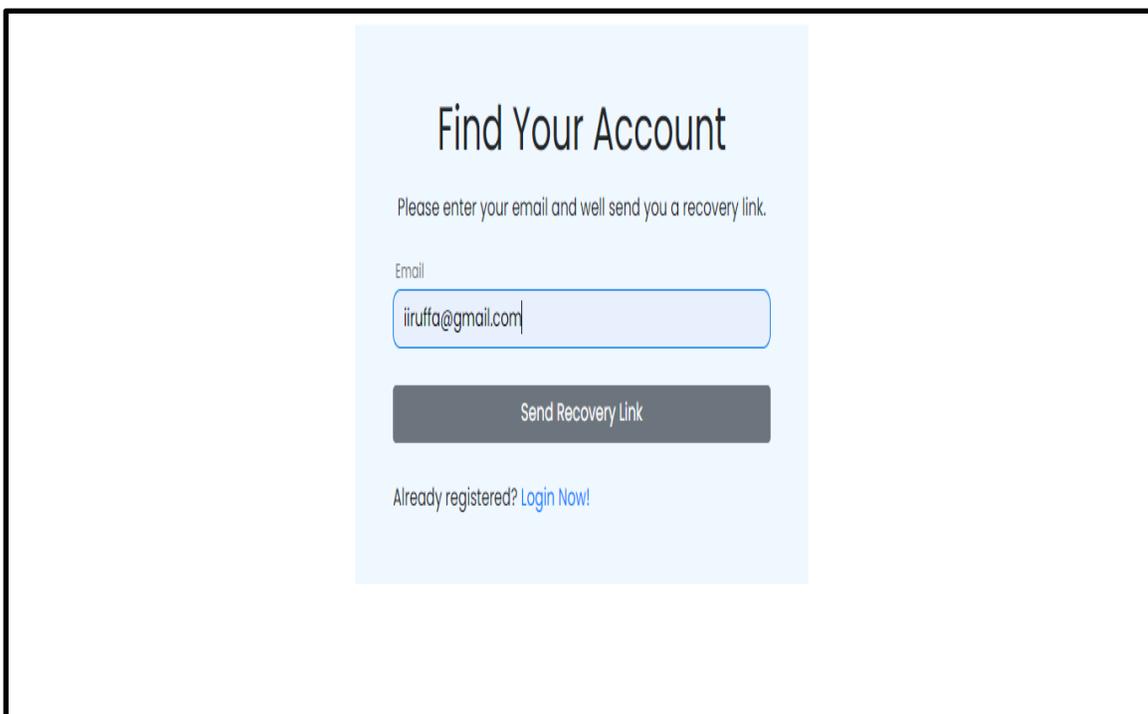
Preview 7. Forgot Password

Preview 8, shows the menu category of the system.
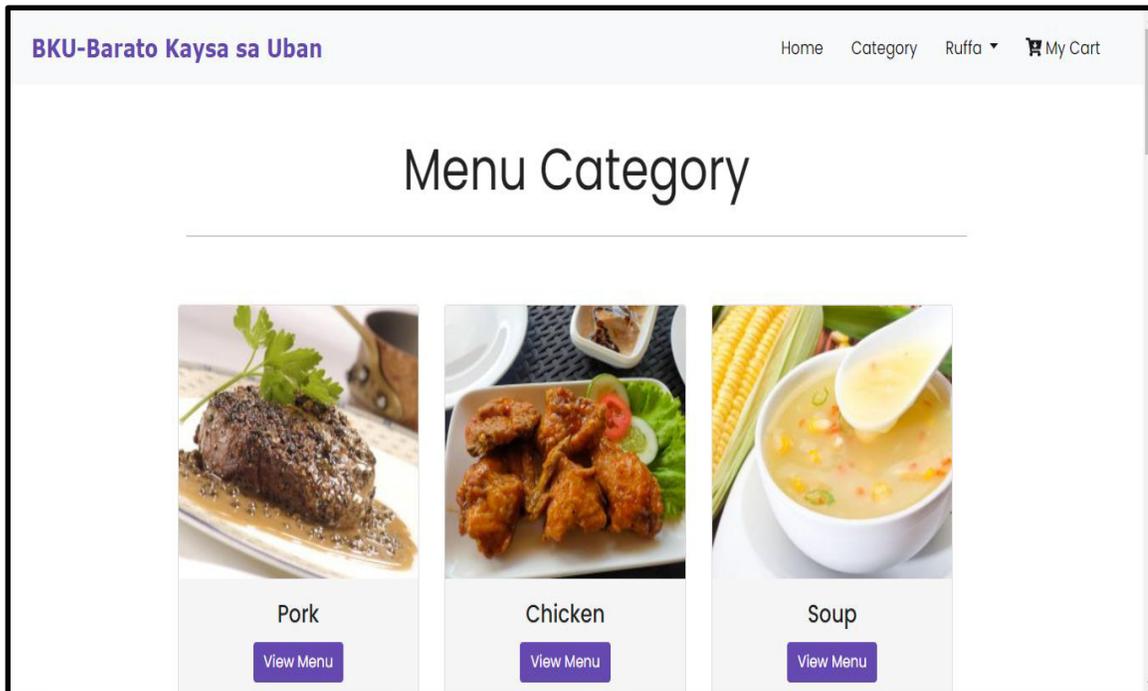
Preview 8. Customer's Select Menu

Preview 9, shows the customer's cart
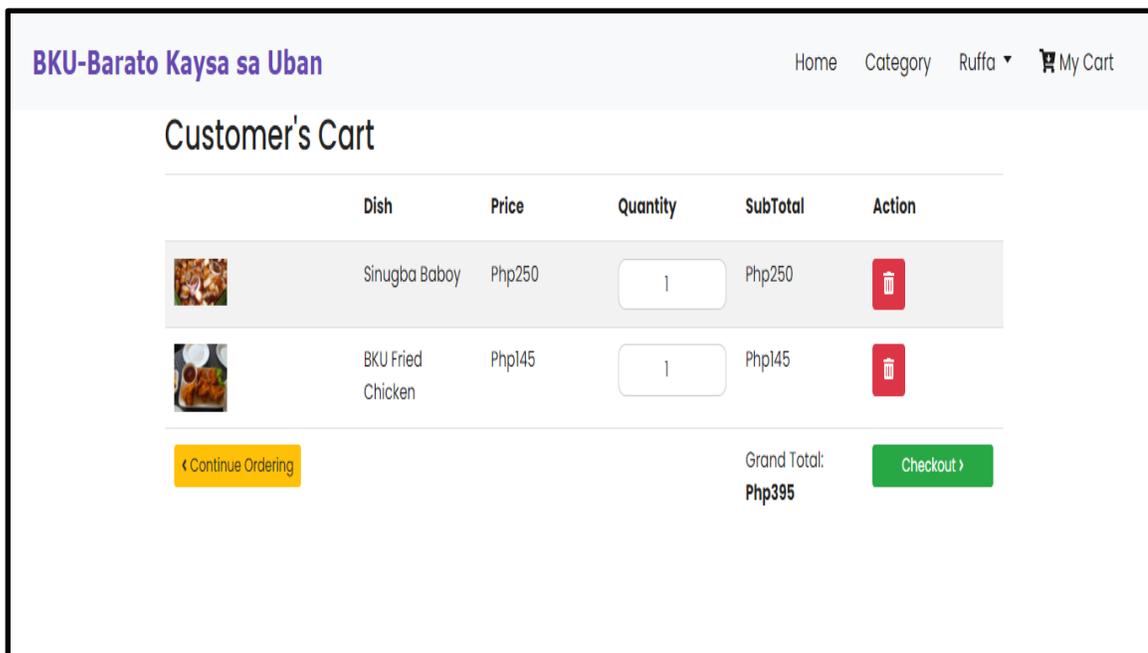
Preview 9. Customer's Cart

Preview 10, shows the preview of the customer's orders. Customer will input the time, date and choose payment method preferred.

Preview 10. Orders Preview

Preview 11, shows the customer's orders, bill, delivery date and time address and the orders status.

Preview 11. Customer's Order Summary

Preview 12, shows the administration, cashier, and rider registration panel.

Preview 12. Users' registration panel

Preview 13, shows the users (administration, cashier and rider) login page.

Preview 13. User login page

Preview 14, shows the admin dashboard of the system.
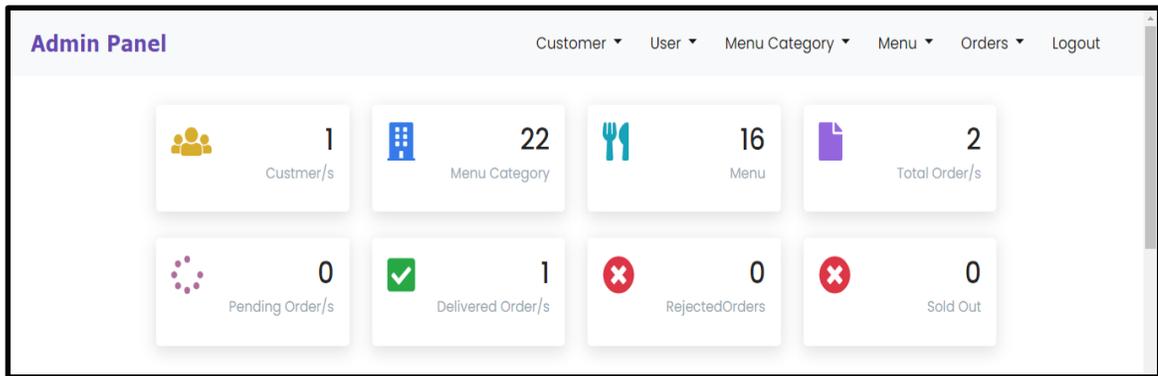
Preview 14. Admin Dashboard

Preview 15, shows the order management menu.
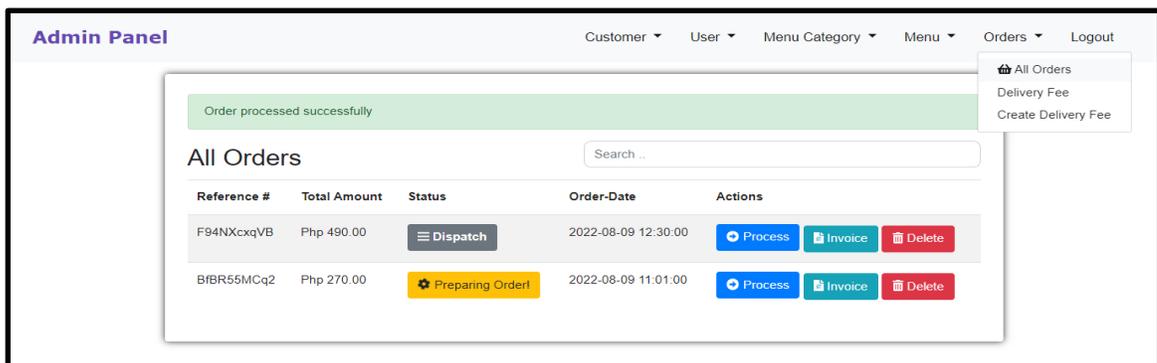
Preview 15. Order Management

Preview 16, shows the delivery management of the system. The delivery person can accept order for delivery and confirm the delivery transaction.
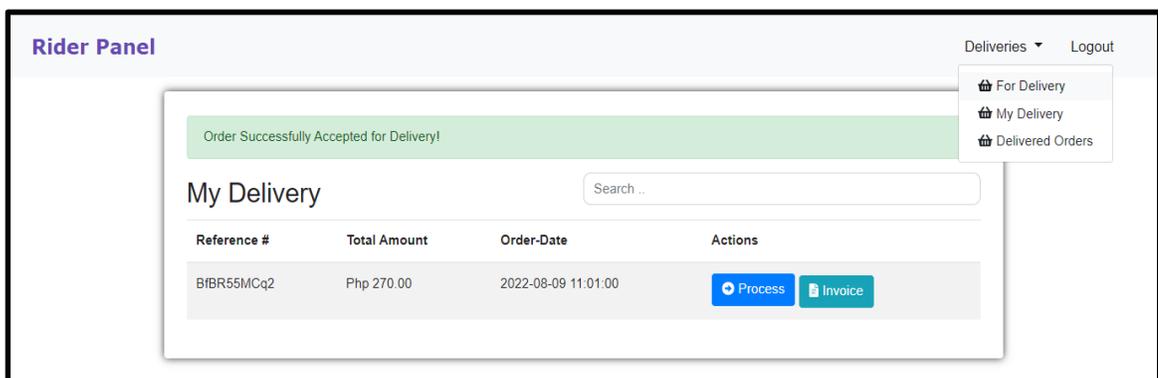
Preview 16. Delivery Management

Preview 17, shows the generated ordering invoice.

Preview 17. Order Invoice

Preview 18, shows the cashier dashboard. Where cashier can process customers'

orders.

Preview 18. Cashier Dashboard

Preview 19, shows the menu management. Adding, editing, and deleting.

Preview 19. Menu Managment

Preview 20, shows the menu category management. Adding, editing, and deleting.

Preview 20. Menu Category Management

Preview 21, shows the customer management module.

Preview 21. Customer Management

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.

Table 24

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.)	2	Sets	₱ 8,900.00	₱ 17,980.00
Printer	1	Unit	₱ 10,000.00	₱ 10,000.00
Internet Service Provider (e.g.LTEBroadband, etc.)	1	Piece	₱ 12,000.00	₱ 12,000.00
Total Annual Operating Cost				**₱39,980.00**
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-days	₱ 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				**₱ 56,500.00**
Total Initial Investment Cost				**₱ 96,480.00**
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	2	Pcs	₱ 90.00	₱ 180.00
Staple Wire	2	Pcs	₱ 15.00	₱ 30.00
Total Initial Investment Cost				₱ 2,210.00

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, from 10:30AM to 2:00PM at BKU Resto and Café Zamora, Bilar, Bohol. It took 3 hours and half during the demonstration and hands-on activity. 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 "and we get 4.6 over 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 a very good rating with a mean value of 4.6. 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, very consistent in the use of terminologies, good communication relative to errors on the operation or use, has good architectural visual clarity.

Table 25

Web Usability Assessment Result

N=25

Web Usability Criteria	Weighted Mean	Interpretation
I. Navigation		
1.1 Current locations within site are shown clearly	4.4 4.6	Excellent Excellent
1.2 Link to site's main page is clearly identified.	4.7	Excellent
1.3 Major important parts of the site are directly accessible from the main pages	4.5	Excellent
1.4 Easy to sue Search function is provided as needed	4.8	Excellent
1.5 Site accommodates novice to expert user		
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	4.7	Excellent
3.2 Under can cancel any operations	4.7	Excellent
3.3 Clear exit point is provided on every page.	4.6	Excellent
3.4 Per page loads moderately to accommodate slow connections.	4.7	Excellent
3.5 Currently used browser is supported	4.3	Excellent

IV. Language and Content		
4.1 Important information and task are given prominence	4.9	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	4.5	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	4.8	Excellent
VI. Consistency		
6.1 The same word or phrase is used consistently to describe an item	4.6	Excellent
6.2 Link reflects the title of the page to which it refers	4.4	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	4.4	Excellent
7.2 Site tolerates a reasonable variety of user actions	4.4	Excellent
7.3 Site provides concise instructions for a user action, including entry formal	4.5	Excellent
7.4 Error message is visible, not hidden	4.6	Excellent
7.5 Error message is in plain language	4.5	Excellent
7.6 Error message describe the action to remedy problems	4.3	Excellent
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 perpective.	4.5	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.	4.7	Excellent
8.4 White space is sufficient; the page is not too dense unnecessary animation is avoided.	4.6	Excellent
8.5 Unnecessary animation is avoided	4.7	Excellent
8.6 Colors used for visited and unvisited links are easily seen and understood.	4.7	Excellent
8.7 Bold and italic text is used sparingly	4.5	Excellent
Average Weighted Mean	**4.6**	Excellent

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

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 6.63 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 26

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.	6.68	Strongly Agree
2. It was simple to use this system.	6.92	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.	6.6	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	**6.63**	**Strongly Agree**

Chapter 3

SUMMARY OF FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

Summary of Findings

After a thorough study and analysis of the present system, the developers discovered that the present system uses a manual method, resulting in issues such as difficulty in product order, administration, customer management data, and unsecured data where data is written and stored in folders and limited coverage of advertisement. Moreover, the BKU Resto and Café used Facebook as a means of advertising. For effective marketing strategy and to avoid data misplacement there is a need for online computerized ordering and recording of products, as well as the availability of statistical and graphical reports.

Based on the needs identified, the Web-Based Food Cart of BKU Resto and Café was developed with the following modules: online mechanism, advertisement, ordering, reservation, payment, delivery and administration. The system was tested, and a survey was conducted to the web users. The web usability questionnaire was used to grade the resulting system's usability. The respondents or users gave the system a 4.6 or a "Excellent" grade based on the evaluation results, suggesting that the system met their expectations, notably in terms of simplicity of use, visual clarity, language and the applicability in general

Conclusions

Based on the gathered information on the operations of the Web-Based Food Cart of BKU Resto and Cafe, adopt the manual processes that may result in

related problems which can be resolved through computerization. The evaluation of current processes, particularly in terms of data management and transmission, as well as computerization, is viable and feasible. With the functional evaluation of the web-based food cart of BKU Resto and Cafe, the system's capacity and features met the owner's expectations for improving the business operations. Furthermore, the system's adaption is reasonable and cost-effective when compared to its economic performance.

Recommendations

Based on the foregoing conclusions, it is strongly recommended that the developed system should be implemented. The following suggestion should be followed for a successful implementation of the proposed system.

1. The design system should be officially launched to raise awareness of the Web-Based Food Cart of BKU Resto and Café availability.

2. Purchase a domain and web hosting to increase the dynamic features that may incorporate in the system, especially in the amount of data storage. Owner must have a computer or android device for a rapid and efficient ordering operation.

3. Regular system maintenance is required to ensure the security of records and the stability of the system. Training must be conducted to the primary users for them to be familiarized and be oriented with the system.

REFERENCES

Adonis B. Inson, Marianne C. Lajera, Analyn B. Morga (2017). *Online Ordering of Bohol Diversity Complex. Thesis of Bohol Island State University – Bilar Campus, Zamora, Bilar, Bohol.*

Article XIV Section 2 of the 1987 Constitution of the Republic of the Philippines, from http://ldb.org/philcon/scietech.htm

Ashutosh et al., (2013) *Digital Ordering System for Restaurant Using Android states that the Digital Ordering System for Restaurants Using Android (DOSRUA)*

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.

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.

https://codeastro.com/food-ordering-system-in-php-codeigniter-with-source-code/

https://www.techopedia.com/definition/3243/unified-modeling-language-uml

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 of Bohol Island State University - Bilar Campus, Zamora, Bilar, Bohol.*

Jejyn T. Camposo, Lauruce Angel A. Amit, Sheralyn L. Geolagon (2020). *Network-Based Ordering System of Beaurose Shop of Poblacion Sur, Carmen, Bohol. Thesis of Bohol Island State University Bilar-Campus, Zamora, Bilar, Bohol.*

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 Questions for Interview

Owner – BKU Resto and Café

1. What are the current ordering processes of BKU Resto and Café?

2. What are the problems encountered by the present system of BKU Resto and Café?

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 the owner ordering in ordering new products?

6. What are the needs of your shop?

Cashier – BKU Resto and Café

1. What are the present processes managing products ordered in your shop?

2. What are the problems and needs of BKU Resto and Café in the management of products and orders?

3. Where do you store information about your products?

4. Where do you store the order or purchase the product of their customer?

5. How did you advertise your products?

Letter of Intent

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

APRIL 01, 2022

MRS. MARIA IVON M. BUNAO
Owner, BKU Resto and Cafe
Zamora, Bilar, Bohol

Ma'am,

Good day!

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

In this connection, we would like to ask your good office to allow us to conduct system study base on the Online Orderin System of BKU (Barato Kaysa Uban).

We assure you that we shall honor secrecy and privacy to all data and information we shall be handling during our data collection which include interview, observation and document review. As we go along with our study, your approval will be a great help to the success of our study.

We anticipate your favorable response regarding this matter.

Thank you very much and more power!

RUFFA MAE O. CAMPOSO

CHONA M. VISTAL

CHRISTIAN REY C. CAILING

RENEL JAIRUS C. BUSANO

Researchers

Noted:

RENANTE S. DIGAMON
Subject Instructor

LEONIDA P. REVILLA
Thesis Adviser

Recommended by:

Endorsed by:

SHEILA G. TABUNO
Chairperson, DCoS

ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:

MRS. MARIA IVON M. BUNAO
BKU Owner

Letter of Implementation

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

March 30, 2022

Mrs. Maria M. Yvon Buñao
Owner
BKU Resto and Café
Zamora, Bilar, Bohol

Ma'am,

Greetings!

It is our pleasure to inform you that the system **"Web-Based Food Cart of BKU Resto and Café"** 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 March 31, 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.

But 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,
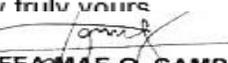
RUFFA MAE O. CAMPOSO
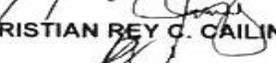
CHONA M. VISTAL

CHRISTIAN REY C. CAILING

RENEL JAIRUS C. BUSANO
Researchers

Noted:

RENANTE S. DIGAMON
Subject Instructor

Recommended by:
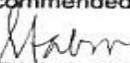
SHEILA G. TABUNO
Chairperson, DCoS
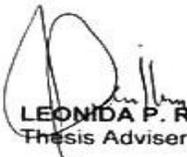
LEONIDA P. REVILLA
Thesis Adviser

Endorsed by:

ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:

MRS. MARIA IVON M. BUNAO
BKU Owner

Letter of Questionnaire Distribution and Implementation

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

March 30, 202

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)

Web Usability Criteria

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

Based on Lewis J. R. (1995) IBM Computer Usability Satisfaction Questionnaires: Psychometric Evaluation and Instructions for Use

APPENDIX C

User's Manual

Main Page

    Accessing the Website

        Steps:

            1. Type "http://bkurestocafebilar.bisubilar.org/BKU_RC/"

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://bkurestocafebilar.bisubilar.org/BKU_RC/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 products

APPENDIX D

Source Code

config.php
```php
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
$config['base_url'] = 'http://localhost/BKU_RC/';
?>
```

database.php
```php
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
$active_group = 'default';
$query_builder = TRUE;
$db['default'] = array(
'dsn'    => '',
'hostname' => 'localhost',
'username' => 'root',
'password' => '',
'database' => 'bku_rc',
'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
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Login Form</title>
<link rel="stylesheet" href="<?php echo base_url().'assets/css/bootstrap.min.css';?>">
<script src="<?php echo base_url().'assets/js/jquery-3.6.0.min.js';?>"></script>
<script src="<?php echo base_url().'assets/js/bootstrap.min.js';?>"></script>
<script src="https://use.fontawesome.com/releases/v5.0.8/js/all.js"></script>
<link rel="stylesheet" type="text/css" href="<?php echo base_url('/assets/css/profile.css');?>">
</head>
<body>
 <div class="wrapper mt-sm-5">
 <h4 class="pb-4 border-bottom text-center">Login To Your Account</h4>
 <?php
 if (!empty($this->session->flashdata('recover_success'))){
     echo "<div class='alert alert-success m-3 mx-auto'>".$this->session->flashdata('recover_success')."</div>";
     }
     if (!empty($this->session->flashdata('success'))) {
       echo "<div class='alert alert-success m-3 mx-auto'>".$this->session->flashdata('success')."</div>";
     }
     ?>
     <?php
     if (!empty($this->session->flashdata('msg'))) {
       echo "<div class='alert alert-danger m-3 mx-auto'>".$this->session->flashdata('msg')."</div>";
     }
     ?>
     <form action="<?php echo base_url().'login/authenticate' ;?>" name="loginform" id="loginform" method="POST">
         <div class="form-group">
           <label for="username">Username</label>
<input type="text" class="form-control bg-light" name="username" id="username" placeholder="Username">
<span></span>
```

```
</div>
<?php echo form_error('username'); ?>
<div class="form-group">
<label for="password">Password</label>
<input type="password" class="form-control
bg-light" name="password" id="password"
placeholder="Password">
<span></span>
</div>
<?php echo form_error('password'); ?>
<div class="py-3 pb-4 border-bottom">
<button type="submit" class="btn btn-
success mr-3">Login</button>
<a href="<?php echo
base_url().'singup/index' ?>" class="btn btn-
danger">Register</a>
<a href="<?php echo
base_url().'forgot/index' ?>">Forgot
Password?</a>
</div>
</form>
</div>
<script>
const form =
document.getElementById('loginform');
const username =
document.getElementById('username');
const password =
document.getElementById('password');
form.addEventListener('submit', (event) =>
{event.preventDefault();validate();})
const sendData = (sRate, count) => {
if(sRate === count) {
event.currentTarget.submit();
}
}
const successMsg = (usernameVal) => {
let formCon =
document.getElementsByClassName('form-
control');
var count = formCon.length - 1;
for (var i = 0; i < formCon.length; i++) {
if (formCon[i].className === "form-control
bg-light success") {
var sRate = 0 + i;sendData(sRate, count);
} else {
return false;
}
}
}const validate = () => {const usernameVal =
username.value.trim();const passwordVal =
password.value.trim();
if (usernameVal === "") {
setErrorMsg(username, 'username can be
blank');
} else {
```

```
setSuccessMsg(username);
}
if (passwordVal === "") {
setErrorMsg(password, 'password can not
be blank');
} else {
setSuccessMsg(password); }
successMsg();}
 function setErrorMsg(ele, msg) {
const formCon = ele.parentElement;
const formInput =
formCon.querySelector('.form-control');
const span = formCon.querySelector('span');
span.innerText = msg;
formInput.className = "form-control bg-
light is-invalid";
span.className = "invalid-feedback font-
weight-bold";
}
function setSuccessMsg(ele) {
const formCon = ele.parentElement;
const formInput =
formCon.querySelector('.form-control');
formInput.className = "form-control bg-
light success";
}
</script>
<!-- jQuery library -->
<script
src="https://ajax.googleapis.com/ajax/libs/jq
uery/3.5.1/jquery.min.js"></script>
<!-- Popper JS --><script
src="https://cdnjs.cloudflare.com/ajax/libs/po
pper.js/1.16.0/umd/popper.min.js"></script>
<!-- Latest compiled JavaScript -->
<scriptsrc="https://maxcdn.bootstrapcdn.co
m/bootstrap/4.5.2/js/bootstrap.min.js"></scri
pt>
</body>
</html>
```

forgotpass.php

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible"
content="IE=edge">
<meta name="viewport"
content="width=device-width, initial-
scale=1.0">
<title>Account Recovery</title>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible"
content="IE=edge"><meta name="viewport"
```

```
content="width=device-width, initial-
scale=1.0">
 <link rel="stylesheet" href="<?php echo
base_url().'assets/css/bootstrap.min.css';?>"
><script src="<?php echo
base_url().'assets/js/jquery-
3.6.0.min.js';?>"></script>
<script src="<?php echo
base_url().'assets/js/bootstrap.min.js';?>"></
script><script
src="https://use.fontawesome.com/releases/
v5.0.8/js/all.js"></script><link
rel="stylesheet" type="text/css" href="<?php
echo base_url('/assets/css/profile.css');?>">
</head>
<body>
<div class="wrapper container">
<center>
<p>
<?php
if (!empty($this-
>session>flashdata('success'))) {
echo "<div class='alert alert-warning m-3
mx-auto'>".$this->session-
>flashdata('success')."</div>";
}
if (!empty($this->session->flashdata('err'))) {
echo "<div class='alert alert-warning m-3
mx-auto'>".$this->session-
>flashdata('err')."</div>";
}
?>
</p>
</center>
<h1 class="text-center my-3">Find Your
Account</h1>
<form action="<?php echo
base_url().'forgot/password'; ?>"
method="POST" name="myForm"
id="myForm"class="form-container mx-auto
shadow-container">
<center><p>Please enter your email and
well send you a recovery link.</p></center>
<div class="row"><div class="col-md-12">
<div class="form-group">
<label for="email">Email</label>
<input type="text" class="form-control
<?php echo (form_error('email') != "") ? 'is-
invalid' : '';?>" name="email"
placeholder="Email"id="email"
value="<?php echo set_value('email')?>">
<?php echo form_error('email'); ?>
<span></span>
</div>
</div>
```

```
</div><div class="status text-center text-
danger font-weight-bold my-2"></div>
<button type="submit" class="btn btn-
secondary btn-block">Send Recovery
Link</button>
<br />
<p>Already registered? <a href="<?php
echo base_url().'login/index';?>">Login
Now!</a></p>
 </form>
</div>
<script
src="https://ajax.googleapis.com/ajax/libs/jq
uery/3.5.1/jquery.min.js"></script>
<!-- Popper JS -->
<script
src="https://cdnjs.cloudflare.com/ajax/libs/po
pper.js/1.16.0/umd/popper.min.js"></script>
<script
 const form =
document.getElementById('myForm');
const email =
document.getElementById('email');
form.addEventListener('submit', (event) => {
event.preventDefault();
 validate();
})
const isEmail = (emailVal) => {
var re =

^(([^<>()\[\]\\.,;:\s@"]+(\.[^<>()\[\]\\.,;:\s@"]+)*
)|(".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-
9]{1,3}\.[0-9]{1,3}])|(([a-zA-Z\-0-9]+\.)+[a-zA-
Z]{2,}))$/;
if (!re.test(emailVal)) {
return "fail";
}
}
const sendData = (sRate, count) => {
if(sRate === count) {
event.currentTarget.submit();
}
}
const successMsg = () => {et formCon =
document.getElementsByClassName('form-
control');var count = formCon.length - 1; for
(var i = 0; i < formCon.length; i++) {
if (formCon[i].className === "form-control
success") {
var sRate = 0 + i;sendData(sRate, count);
} else {
return false;
}
}
}
const validate = () => {
```

```
const emailVal = email.value.trim();
if (emailVal === "") {
setErrorMsg(email, 'email cannot be blank');
} else if (isEmail(emailVal) === "fail") {
setErrorMsg(email, 'enter valid email only');
} else {
setSuccessMsg(email);
}
successMsg();
}
function setErrorMsg(ele, msg) {
const formCon = ele.parentElement;
const formInput =
formCon.querySelector('.form-control');
const span = formCon.querySelector('span');
span.innerText = msg;
formInput.className = "form-control is-
invalid";span.className = "invalid-feedback
font-weight-bold"
}
function setSuccessMsg(ele) {
const formCon = ele.parentElement;
const formInput =
formCon.querySelector('.form-control');
formInput.className = "form-control
success";
}
</script>
</body>
</html>
```

cart.php
```
<script>
function updateCartItem(obj, rowid) {
$.get("<?php echo
base_url().'cart/updateCartItemQty/'; ?>", {
rowid: rowid,
qty: obj.value
},
function(resp) {
if (resp == 'ok') {
location.reload();
} else {
alert(resp);
}
});
}
</script>
<div class="container">
<?php if (!empty($this->session-
>flashdata('err'))){
echo "<div class='alert alert-warning m-3
mx-auto'>".$this->session-
>flashdata('err')."</div>";
} ?>
 <h2>Customer's Cart</h2>
```

```
<div class="table-responsive-sm">
<table class="table table-striped table-
hover">
<thead>
<tr>
<th width="10%">

</th>
 <th width="10%">Dish</th>
 <th width="10%">Price</th>
 <th width="10%">Quantity</th>
 <th width="10%">SubTotal</th>
 <th width="10%">Action</th>
</tr>
</thead>
<tbody id="myTable">
<?php if($this->cart->total_items() > 0) {
foreach($cartItems as $item) { ?>
<tr>
<td>
<?php $image = $item['image'];?>
<img class="" width="70"
src="<?php echo
base_url().'public/uploads/dishesh/thumb/'.$i
mage; ?>">
</td>
<td><?php echo $item['name']; ?></td>
<td><?php echo 'Php'. $item['price']; ?></td>
<td><input type="number" class="form-
control text-center" value="<?php echo
$item['qty']; ?>"
onChange="updateCartItem(this, '<?php
echo $item['rowid'] ?>')">
</td>
<td><?php echo 'Php'.$item['subtotal'];
?></td>
<td>
<a href="<?php echo
base_url().'cart/removeItem/'.$item['rowid'] ;
?>"
onclick="return confirm('Are you sure?')"
class="btn btn-danger btn-flat btn-addon
btn-xs m-b-10"><i class="fas fa-trash-
alt"></i></a>
</td>
</tr>
<?php } ?>
<?php } else { ?>
<tr>
<td colspan="6"><p>No Items In Your
Cart!!</p></td>
 </tr>
<?php } ?>
</tbody>
<tfoot>
 <tr>
```

```
<td><a href="<?php echo
base_url().'menu_cat' ?>" class="btn btn-sm
btn-warning"><i class="fas fa-angle-
left"></i> Continue Ordering</a></td>
<td colspan="3"></td>
<?php if($this->cart->total_items() > 0) { ?>
<td class="text-left">Grand Total: <b><?php
echo 'Php'.$this->cart->total();?></b></td>
<td><a href="<?php echo
base_url().'checkout';?>" class="btn btn-sm
btn-success btn-block">Checkout <i
class="fas fa-angle-right"></i></a></td>
<?php } ?></tr></tfoot>
</table>
</div>
</div>
```

checkout.php
```
<div class="container">
<?php if (!empty($this->session-
>flashdata('err'))){
echo "<div class='alert alert-warning m-3
mx-auto'>".$this->session-
>flashdata('err')."</div>";
} <div class="row">
<div class="col-md-8">
<h2 class="mt-3">Order Preview</h2>
<div class="table-responsive-sm">
<table class="table table-striped table-
hover">
<thead>
<tr>
<th></th>
<th>Dish</th>
<th>Price</th>
<th>Quantity</th>
<th>SubTotal</th>
</tr>
</thead>
<tbody id="myTable">
<?php $total = 0; if($this->cart->total_items()
> 0) { foreach($cartItems as $item) { ?>
<tr>
<td>
<?php $image = $item['image'];?>
<img class="" width="100"
src="<?php echo
base_url().'public/uploads/dishesh/thumb/'.$i
mage; ?>">
</td>
<td><?php echo $item['name']; ?></td>
<td><?php echo 'Php'.$item['price']; ?></td>
<td><?php echo $item['qty'];
?></td><td><?php echo
'Php'.$item['subtotal']; $total +=
$item['subtotal']; ?></td>
```

```
</tr>
<?php } ?>
<?php } else { ?>
<tr>
<td colspan="5">
<p>No Items In Your Cart!!</p>
</td></tr>
<?php } ?></tbody>
<tfoot>
<tr>
<td colspan="4"></td>
</tr>
</tfoot>
</table>
</div>
 /div>
<div class="col-md-4">
<form action="<?php echo
base_url().'checkout/index';?>"
method="POST"
class="form-container  shadow-container"
style="width:80%" id="myForm">
<h3 class="mt-3">Delivery Details</h3><hr>
<div class="form-group">
<label for="ddate">Delivery Date</label>
<input type="date" class="form-control
<?php echo (form_error('ddate') != "") ? 'is-
invalid' : '';?>" name="ddate" id="ddate"
placeholder="Select Date" value="<?php
echo set_value('ddate')?>">
<?php echo form_error('ddate'); ?>
<span></span>
</div>
<div class="form-group">
 <label for="dtime">Delivery Time</label>
<input type="time" class="form-control
<?php echo (form_error('dtime') != "") ? 'is-
invalid' : '';?>" name="dtime" id="dtime"
placeholder="Select Time" value="<?php
echo set_value('dtime')?>">
<?php echo form_error('dtime'); ?>
<span></span>
</div>
<div class="form-group">
<label for="address">Address</label>
<textarea id="address" name="address"
type="text" style="height:70px;"class="form-
control<?php echo (form_error('address') !=
"") ? 'is-invalid' : '';?>"><?php echo
set_value('address',
$user['address']);?></textarea>
<?php echo form_error('address'); ?>
<label for="delivery_fee"
id="delivery_fee">Delivery Fee : </label>
</div>
<div class = "form-group">
```

```
<label>Payment Method</label>
<select id="payment_type"
name="payment_type" class="form-control"
required ><!--   <option value selected
>Choose Option</option>
value="COD">COD</option>
</select>
<label for="tot_fee" id="tot_fee">Grand Total
: </label>
<input type="hidden" id="hid_tot"
name="hid_tot" value="<?php echo $total;
?>">
</div>
<a href="<?php echo base_url().'cart'; ?>"
class="btn btn-warning"><i class="fas fa-
angle-left"></i>Back to cart</a>
<button type="submit" class="btn btn-
success" id="ss" name="ss">Place Order <i
class="fas fa-angle-right"></i></button>
</div></form>
</div>
 </div>
</div>
<script>
const form =
document.getElementById('myForm');
const date =
document.getElementById('ddate');
const time =
document.getElementById('dtime');
const successMsg = () => {
let formCon =
document.getElementsByClassName('form-
control');
var count = formCon.length - 1;
for (var i = 0; i < formCon.length; i++) {
if (formCon[i].className === "form-control
success") {
var sRate = 0 + i;
sendData(sRate, count);
} else {
return false;
}
}
}
const validate = () => {
 const dateNameVal = date.value.trim();
 const timeNameVal = time.value.trim();
 var ToDate = new Date();
//date validation
if (dateNameVal === "") {
setErrorMsg(date, 'Date cannot be blank');
} else {
setSuccessMsg(date);
}
```

```
 //time validation
 if (timeNameVal === "") {
setErrorMsg(time, 'Time cannot be blank');
} else {
setSuccessMsg(time);
}
successMsg();
}function setErrorMsg(ele, msg) {
const formCon = ele.parentElement;const
formInput = formCon.querySelector('.form-
control');const span =
formCon.querySelector('span');
span.innerText = msg;
formInput.className = "form-control is-
invalid";span.className = "invalid-feedback
font-weight-bold"
}
function setSuccessMsg(ele) {
const formCon = ele.parentElement;
const formInput =
formCon.querySelector('.form-control');
formInput.className = "form-control
success";
}
</script>
<script type="text/javascript">
(function($) {"use strict"; // Start of use strict
$(document).ready(function() {const
userName =
document.getElementById('userName');
const
firstNamedocument.getElementById('firstNa
me');
var url = 'http://localhost/BKU_RC/';
var address =
document.getElementById('address');
$("#payment_type").change(function () {
var id = $("#address").val();
 var tot = $("#hid_tot").val();
 $.ajax({
 url:url + "orders/order_fee",
method:"POST",
data:{id:id},
dataType:"json",
success:function(data)
{if(data!=""){$("#hid_tot").val(data[0].fee);
var total = parseInt(data[0].fee) +
parseInt(tot);
document.getElementById("delivery_fee").in
nerHTML = "Delivery Fee : Php " +
data[0].fee;
document.getElementById("tot_fee").innerH
TML = "Grand Total: Php " + total +
".00";}else{
$("#hid_tot").val('');
document.getElementById("delivery_fee").in
```

```
nerHTML = "Delivery Fee : Not Available";
document.getElementById("tot_fee").innerH
TML = "Grand Total: Php";
}
}
});
});
address.addEventListener('keyup',
function(){
var id = $("#address").val();
var tot = $("#hid_tot").val();
$.ajax({
url:url + "orders/order_fee",
method:"POST",
data:{id:id},
dataType:"json",
success:function(data)
{console.log(data);
if(data!=""){
var total = parseInt(data[0].fee) +
parseInt(tot);$("#hid_tot").val(data[0].fee);
document.getElementById("delivery_fee").in
nerHTML = "Delivery Fee : Php " +
data[0].fee;
document.getElementById("tot_fee").innerH
TML = "Grand Total: Php " + total + ".00";
}else{
$("#hid_tot").val('');
document.getElementById("delivery_fee").in
nerHTML = "Delivery Fee : Not Available";
document.getElementById("tot_fee").innerH
TML = "Grand Total: Php";
}
}
});
});
});
})(jQuery); // End of use strict
</script>
```

processOrder.php
```
<div class="container table-responsive m-t-
20">
<h2 class="py-3 text-center">View User's
Order</h2>
<table id="myTable" class="table table-
bordered table-hover table-striped
dataTable">
<tbody>
<tr>
<td><strong>Reference #: <?php echo
$order[0]['o_ref'];
?></strong></td><td><strong>Ordered
By:</strong></td><td><?php echo
$order[0]['username'] ?></td>
</tr>
```

```
<tr>
<td></td><td></td><td></td>
</tr>
<tr>
<td><strong>Food Item:</strong></td>
<td><strong>Quantity:</strong></td>
<td><strong>Price:</strong></td>
</tr>
<?php $total = 0; foreach ($order as
$orders) { ?>
<tr>
<td><?php echo $orders['d_name'] ?></td>
<td><?php echo $orders['quantity'] ?></td>
<td>Php <?php echo $orders['price']; $total
= $total + $orders['price']; ?></td>
</tr>
<?php } ?>
tr>
<td></td><td></td><td></td>
</tr>
<tr>
<td></td>
<td><strong>Delivery Fee:</strong></td>
<td>Php <?php echo $order[0]['d_fee']
?></td>
</tr>
 <tr>
<td></td>
 <td><strong>Grand Total:</strong></td>
<td>Php <?php echo $total +
$order[0]['d_fee']; ?>.00</td>
</tr>
<tr>
<td></td>
<td> <strong>Address:</strong></td>
<td><?php echo $order[0]['address'] ?></td>
</tr>
<tr>
<td></td>
<td><strong>Order Date:</strong></td>
<td><?php echo $order[0]['success_date']
?></td></tr>
<form method="post" action="<?php echo
base_url().'admin/orders/updateOrder/'.$ord
er[0]['o_ref']; ?>">
<tr>
<td></td>
<td><strong>Select Order
Status:</strong></td>
<td>
<select class="form-control" name="status"
class="<?php echo (form_error('status') !=
"") ? 'is-invalid' : '';?>">
<option>Select Status</option>
<?php if($order[0]['status'] == '' ||
$order[0]['status'] == 'null'){ ?>
```

```
<option value="in process">In
Process</option>
<?php } ?>
<?php if($order[0]['status'] == 'for delivery'){
?><option
value="closed">Closed/Delivered</option>
<?php } ?>
</select>
<?php echo form_error('status');?>
</td>
</tr>
<tr>
<td></td>
<td></td>
<td><button class="btn btn-primary btn-
block" type="submit">Submit</button></td>
</tr>
</form>
</tbody>
</table>
</div>
```

Processfordelivery.php
```
<div class="container table-responsive m-t-
20">
<?php if($this->session-
>flashdata('success') != ""):?>
<div class="alert alert-success">
<?php echo $this->session-
>flashdata('success');?>
</div>
<?php endif ?>
<?php if($this->session->flashdata('error') !=
""):?>
<div class="alert alert-danger">
<?php echo $this->session-
>flashdata('error');?>
</div>
<?php endif ?>
<h2 class="py-3 text-center">View Order's
Details</h2>
<table id="myTable" class="table table-
bordered table-hover table-striped
dataTable">
<tbody>
<tr>
<td><strong>Reference #: <?php echo
$order[0]['o_ref']; ?></strong></td>
<td><strong>Ordered By:</strong></td>
<td><?php echo $order[0]['username']
?></td>
</tr>
<tr>
<td></td><td></td><td></td>
</tr>
<tr>
```

```
<td><strong>Food Item:</strong></td>
<td><strong>Quantity:</strong></td>
<td><strong>Price:</strong></td>
</tr>
<?php $total = 0; foreach ($order as
$orders) { ?>
<tr>
<td><?php echo $orders['d_name'] ?></td>
<td><?php echo $orders['quantity'] ?></td>
<td>Php <?php echo $orders['price']; $total
= $total + $orders['price']; ?></td>
</tr>
<?php } ?>
<tr>
<td></td><td></td><td></td>
</tr>
<tr>
<td></td>
<td><strong>Delivery Fee:</strong></td>
<td>Php <?php echo $order[0]['d_fee']
?></td>
</tr>
<tr>
<td></td>
<td><strong>Grand Total:</strong></td>
<td>Php <?php echo $total +
$order[0]['d_fee']; ?>.00</td>
</tr>
<tr>
<td></td>
<td><strong>Address:</strong></td>
<td><?php echo $order[0]['address'] ?></td>
</tr>
<tr>
<td></td>
<td><strong>Order Date:</strong></td>
<td><?php echo $order[0]['success_date']
?></td>
</tr>
<form method="post" action="<?php echo
base_url().'rider/for_delivery/acceptDelivery/'
.$order[0]['o_ref']; ?>">
<tr>
<td></td>
<td><strong>Order Status:</strong></td>
<td>
<?php if($order[0]['status'] == ''){ echo
'Pending'; } ?>
<?php if($order[0]['status'] == 'in process'){
echo 'In Process'; } ?>
<?php if($order[0]['status'] == 'for delivery'){
echo 'For Delivery'; } ?>
<?php if($order[0]['status'] == 'closed'){ echo
'Closed'; } ?>
</td>
</tr>
```

```
<tr>
<td></td>
<td></td>
<td><button class="btn btn-primary btn-
block" type="submit">Accept
Delivery</button></td>
</tr>
</form>
</tbody>
</table>
</div>
```

confirmdelivery.php
```
<div class="container table-responsive m-t-
20">
<?php if($this->session-
>flashdata('success') != ""):?>
<div class="alert alert-success">
<?php echo $this->session-
>flashdata('success');?>
</div>
<?php endif ?>
<?php if($this->session->flashdata('error') !=
""):?>
<div class="alert alert-danger">
<?php echo $this->session-
>flashdata('error');?>
</div>
<?php endif ?>
<h2 class="py-3 text-center">View Order's
Details</h2>
<table id="myTable" class="table table-
bordered table-hover table-striped
dataTable">
<tbody>
<tr>
<td><strong>Reference #: <?php echo
$order[0]['o_ref']; ?></strong></td>
<td><strong>Ordered By:</strong></td>
<td><?php echo $order[0]['username']
?></td>
</tr>
<tr>
<td></td><td></td><td></td>
</tr>
<tr>
<td><strong>Food Item:</strong></td>
<td><strong>Quantity:</strong></td>
<td><strong>Price:</strong></td>
</tr>
<?php $total = 0; foreach ($order as
$orders) { ?>
<tr>
<td><?php echo $orders['d_name'] ?></td>
<td><?php echo $orders['quantity'] ?></td>
```

```
<td>Php <?php echo $orders['price']; $total
= $total + $orders['price']; ?></td>
</tr>
<?php } ?>
<tr>
<td></td><td></td><td></td>
</tr>
<tr>
<td></td>
<td><strong>Delivery Fee:</strong></td>
<td>Php <?php echo $order[0]['d_fee']
?></td>
</tr>
<tr>
<td></td>
<td><strong>Grand Total:</strong></td>
<td>Php <?php echo $total +
$order[0]['d_fee']; ?>.00</td>
</tr>
<tr>
<td></td>
<td><strong>Address:</strong></td>
<td><?php echo $order[0]['address'] ?></td>
</tr>
<tr>
<td></td>
<td><strong>Order Date:</strong></td>
<td><?php echo $order[0]['success_date']
?></td>
</tr>
<form method="post" action="<?php echo
base_url().'rider/my_delivery/confirmDelivery
/'.$order[0]['o_ref']; ?>"><tr>
<td></td>
<td><strong>Select Order
Status:</strong></td>
<td>
<?php echo $order[0]['status']; ?>
</td>
</tr>
<tr>
<td></td>
<td></td>
<td><button class="btn btn-primary btn-
block" type="submit">Confirm
Delivery</button></td>
</tr>
</form>
</tbody>
</table>
</div>
```

reports.php
```
var url = 'http://localhost/BKU_RC/';
var jan = feb = mar = apr = may = jun = jul =
aug = sep = oct = nov = dec = 0;
```

```
window.onload = function () {
function daily_sales(){
$.ajax({
url:url + "admin/reports/daily_sales",
 method:"POST",
 dataType:"json",
 success:function(data)
 {
var dataPts = [];
$.each(data, function(index) {
for(var i = 0; i < data[index].length; i++){
dataPts.push({ 'y':
parseInt(data[index][i].total), 'label':
data[index][i].myDate });
}
});var chart = new
CanvasJS.Chart("DailySales", {
animationEnabled: true,
theme: "light2", // "light1", "light2", "dark1",
"dark2"
title:{
text: "Daily Sales Report"
},
axisY: {
title: "Total Sales"
},
data: [{
type: "column",
showInLegend: true,
legendMarkerColor: "grey",
legendText: "Date",
dataPoints: dataPts
}]
});
chart.render();
}
});
}
function monthly_sales(){
$.ajax({
url:url + "admin/reports/monthly_sales",
method:"POST",
dataType:"json",
success:function(data)
{
var chart = new
CanvasJS.Chart("MonthlySales", {
animationEnabled: true,
theme: "light2", // "light1", "light2", "dark1",
"dark2"
title:{
text: "Monthly Sales Report"
},
axisY: {
title: "Total Sales"
},
data: [{
type: "column",
showInLegend: true,
legendMarkerColor: "grey",
legendText: "Month",
dataPoints: [
{ y: parseInt(data.jan["0"]["SUM(price)"]),
label: "Jan" },
{ y: parseInt(data.feb["0"]["SUM(price)"]),
label: "Feb" },
{ y: parseInt(data.mar["0"]["SUM(price)"]),
label: "Mar" },
{ y: parseInt(data.apr["0"]["SUM(price)"]),
label: "Apr" },
{ y: parseInt(data.may["0"]["SUM(price)"]),
label: "May" },
{ y: parseInt(data.jun["0"]["SUM(price)"]),
label: "Jun" },
{ y: parseInt(data.jul["0"]["SUM(price)"]),
label: "Jul" },
{ y: parseInt(data.aug["0"]["SUM(price)"]),
label: "Aug" },
{ y: parseInt(data.sep["0"]["SUM(price)"]),
label: "Sep" },{ y:
parseInt(data.oct["0"]["SUM(price)"]),  label:
"Oct" },
{ y: parseInt(data.nov["0"]["SUM(price)"]),
label: "Nov" },
{ y: parseInt(data.dec["0"]["SUM(price)"]),
label: "Dec" }
]
}]
});
chart.render();
}
});
}
function yearly_sales(){
$.ajax({
url:url + "admin/reports/yearly_sales",
method:"POST",
dataType:"json",
success:function(data)
{
var dataPts = [];
$.each(data, function(index) {
for(var i = 0; i < data[index].length; i++){
dataPts.push({ 'y':
parseInt(data[index][i].total), 'label':
data[index][i].myDate });
}
});
console.log(data);
var chart = new
CanvasJS.Chart("YearlySales", {
animationEnabled: true,
```

```
theme: "light2", // "light1", "light2", "dark1",
"dark2"
title:{
text: "Yearly Sales Report"},
axisY: {
title: "Total Sales"},
data: [{
type: "column",
showInLegend: true,
legendMarkerColor: "grey",
legendText: "Year",
dataPoints: dataPts
}]
});
chart.render();
}
});
}
daily_sales();
monthly_sales();
yearly_sales();
function best_seller_daily(){
$.ajax({
url:url + "admin/reports/best_seller_daily",
method:"POST",
dataType:"json",
success:function(data)
{
var d1 = d2 = d3 = d4 = d5 = d6 = d7 = d8 =
d9 = d0 = 0;
var dd1 = dd2 = dd3 = dd4 = dd5 = dd6 =
dd7 = dd8 = dd9 = dd0 = '';
var dataPts = [];
$.each(data, function(index) {
if(data[index][0] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][0].total), 'label':
data[index][0].d_name });
}
if(data[index][1] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][1].total), 'label':
data[index][1].d_name });
}
if(data[index][2] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][2].total), 'label':
data[index][2].d_name });
}
if(data[index][3] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][3].total), 'label':
data[index][3].d_name });
}
if(data[index][4] !==
undefined){dataPts.push({ 'y':
parseInt(data[index][4].total), 'label':
data[index][4].d_name });}
if(data[index][5] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][5].total), 'label':
data[index][5].d_name });
}
if(data[index][6] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][6].total), 'label':
data[index][6].d_name });
}
if(data[index][7] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][7].total), 'label':
data[index][7].d_name });
}
if(data[index][8] !== undefined){
 dataPts.push({ 'y':
parseInt(data[index][8].total), 'label':
data[index][8].d_name });
}
if(data[index][9] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][9].total), 'label':
data[index][9].d_name });
}
});
var chart = new
CanvasJS.Chart("bestSellerDaily", {
animationEnabled: true,
theme: "light2", // "light1", "light2", "dark1",
"dark2"
title:{
text: "Best Seller Today"
},
axisY: {
title: "Total Number of Dishes Sold"
},
data: [{
type: "column",
showInLegend: true,
legendMarkerColor: "grey",
legendText: "Month",
dataPoints: dataPts
}]
});
chart.render();
}
});
}
function best_seller_monthly(){
$.ajax({
url:url +
"admin/reports/best_seller_monthly",
method:"POST",
```

```
dataType:"json",
success:function(data)
{
var d1 = d2 = d3 = d4 = d5 = d6 = d7 = d8 =
d9 = d0 = 0;
var dd1 = dd2 = dd3 = dd4 = dd5 = dd6 =
dd7 = dd8 = dd9 = dd0 = '';
var dataPts = [];
$.each(data, function(index) {
if(data[index][0] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][0].total), 'label':
data[index][0].d_name });
}
if(data[index][1] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][1].total), 'label':
data[index][1].d_name });
}
if(data[index][2] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][2].total), 'label':
data[index][2].d_name });
}
if(data[index][3] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][3].total), 'label':
data[index][3].d_name });
}
if(data[index][4] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][4].total), 'label':
data[index][4].d_name });
}
if(data[index][5] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][5].total), 'label':
data[index][5].d_name });
}
if(data[index][6] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][6].total), 'label':
data[index][6].d_name });
}
if(data[index][7] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][7].total), 'label':
data[index][7].d_name });
}
if(data[index][8] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][8].total), 'label':
data[index][8].d_name });
}
if(data[index][9] !==
undefined)dataPts.push({ 'y':
parseInt(data[index][9].total), 'label':
data[index][9].d_name });
}
});
var chart = new
CanvasJS.Chart("bestSellerMonthly", {
animationEnabled: true,
theme: "light2", // "light1", "light2", "dark1",
"dark2"
title:{
text: "Best Seller this Month"
},
axisY: {
title: "Total Number of Dishes Sold"
},
data: [{
type: "column",
showInLegend: true,
legendMarkerColor: "grey",
legendText: "Month",
dataPoints: dataPts
}]
});
chart.render();
}
});
}
function best_seller_yearly(){
$.ajax({
url:url + "admin/reports/best_seller_yearly",
method:"POST",
dataType:"json",
success:function(data)
{
var d1 = d2 = d3 = d4 = d5 = d6 = d7 = d8 =
d9 = d0 = 0;
var dd1 = dd2 = dd3 = dd4 = dd5 = dd6 =
dd7 = dd8 = dd9 = dd0 = '';
var dataPts = [];
$.each(data, function(index) {
if(data[index][0] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][0].total), 'label':
data[index][0].d_name });
}
if(data[index][1] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][1].total), 'label':
data[index][1].d_name });
}
if(data[index][2] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][2].total), 'label':
data[index][2].d_name });
}
if(data[index][3] !== undefined){
```

```
dataPts.push({ 'y':
parseInt(data[index][3].total), 'label':
data[index][3].d_name });
}
if(data[index][4] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][4].total), 'label':
data[index][4].d_name });
}
if(data[index][5] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][5].total), 'label':
data[index][5].d_name });
}
if(data[index][6] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][6].total), 'label':
data[index][6].d_name });
}
if(data[index][7] !==
undefined){dataPts.push({ 'y':
parseInt(data[index][7].total), 'label':
data[index][7].d_name })} if(data[index][8]
!== undefined){dataPts.push({ 'y':
parseInt(data[index][8].total), 'label':
data[index][8].d_name });
}if(data[index][9] !== undefined){
dataPts.push({ 'y':
parseInt(data[index][9].total), 'label':
data[index][9].d_name });
}});
var chart = new
CanvasJS.Chart("bestSellerYearly", {
animationEnabled: true,
theme: "light2", // "light1", "light2", "dark1",
"dark2"
title:{
text: "Best Seller this Year"
},
axisY: {title: "Total Number of Dishes Sold"
},data: [{
type: "column",
showInLegend: true,
legendMarkerColor: "grey",
legendText: "Month",
dataPoints: dataPts
}]});
chart.render();
} });
}
best_seller_daily();
best_seller_monthly();
best_seller_yearly();

}
```

DEVELOPER'S BIODATA

Name	: Ruffa Mae O. Camposo
Place of Birth	: Vallehermoso, Carmen, Bohol
Birth Date	: July 10, 2000
Age	: 21
Home Address	: Vallehermoso, Carmen, Bohol
Email Address	: iiruffa@gmail.com
Religion	: Roman Catholic
Citizenship	: Filipino
Father's Name	: Romeo S. Camposo
Mother's Name	: Faustina O. Camposo

EDUCATIONAL BACKGROUND

Elementary   : Vallehermoso Elementary School

Vallerhermoso, Carmen, Bohol

2011-2012

Secondary

Junior High School : Vallehermoso, High School

Vallerhermoso, Carmen, Bohol

2015-2016

Senior High School : Bohol Island State University

Zamora, Bilar, Bohol

2017-2018

Tertiary   : Bachelor of Science in Computer Science

Bohol Island State University

Zamora, Bilar, Bohol

2021-2022

Work Experience : On the Job Training

BISU-BILAR CAMPUS

July- September 2021

DEVELOPER'S BIODATA

Name	: Renel Jairus C. Busano
Place of Birth	: Guadalupe, Carmen, Bohol
Birth Date	: May 25, 2000
Age	: 21
Home Address	: Guadalupe, Carmen, Bohol
Email Address	: busanoreneljairus@gmail.com
Religion	: Roman Catholic
Citizenship	: Filipino
Father's Name	: Renato C. Busano
Mother's Name	: Nila B. Busano

EDUCATIONAL BACKGROUND

Elementary   : Guadalupe Elementary School

            Guadalupe, Carmen, Bohol

            2011-2012

Secondary

Junior High School St. Anthonys Academy

            Poblacion Norte, Carmen, Bohol

            2015-2016

Senior High School : St. Anthonys Academy

            Poblacion Norte, Carmen, Bohol

            2017-2018

Tertiary   : Bachelor of Science in Computer Science

            Bohol Island State University

            Zamora, Bilar, Bohol

            2021-2022

Work Experience : On the Job Training

            Imprenta De Bohol

            July-September 2021

DEVELOPER'S BIODATA

Name	: Christian Rey C. Cailing
Place of Birth	: Montesuerte, Carmen, Bohol
Birth Date	: January 02, 1998
Age	: 24
Home Address	: Montesuerte, Carmen, Bohol
Email Address	: christianreycailing@gmail.com
Religion	: Roman Catholic
Citizenship	: Filipino
Father's Name	: Isaac C. Cailing
Mother's Name	: Elena C. Cailing

EDUCATIONAL BACKGROUND

Elementary	: Montesuerte Elementary School
	Montesuerte, Carmen, Bohol
	2009-2010
Secondary	: Katipunan High School - Annex
	Montesuerte, Carmen, Bohol
Tertiary	: Bachelor of Science in Computer Science
	Bohol Island State University
	Zamora, Bilar, Bohol
	2021-2022
Work Experience	: On the Job Training
	Can-Care Technical Vocational School
	July-September 2021

DEVELOPER'S BIODATA

Name	: Chona M. Vistal
Place of Birth	: La Victoria, Carmen, Bohol
Birth Date	: October 13, 1999
Age	: 22
Home Address	: La Victoria, Carmen, Bohol
Email Address	: cheonah88@gmail.com
Religion	: UPC
Citizenship	: Filipino
Father's Name	: Mario S. Vistal
Mother's Name	: Ruth M. Vistal

EDUCATIONAL BACKGROUND

Elementary : La Victoria Elementary School

La Victoria, Carmen, Bohol

2011-2012

Secondary

Junior High School : Isabel S.J Gujol Memorial High School

Alegria, Carmen, Bohol

2015-2016

Senior High School : Eugenio V. Amores Memorial High School

Canmano, Sagbayan, Bohol

2017-2018

Tertiary : Bachelor of Science in Computer Science

Bohol Island State University

Zamora, Bilar, Bohol

2021-2022

Work Experience : On the Job Training

BISU-BILAR CAMPUS

Zamora, Bilar, Bohol

July- September 2021