

Chapter I

The Problem and it's Background

Introduction

A Inventory Management provides a particular goods to be promoted have determined , the next step is to decide on the source of the sources of goods/product goods , brand , quality , and prices of the goods should be carefully considered. The desired mark ups and mark downs of the product should be considered in obtaining the selling price of the goods to be promoted. In the case of simulative sales , price should be considered as to make the goods to be bought. The people in the community constitute the market for goods and services. In motivation research which involves the analysis of the motives , attitudes , and thinking of consumers , the subconscious reason for buying certain products and specific brand at a particular time and place is discovered. Projective techniques are use to prove into the consumes hidden attitudes , preference , feelings , motivation , dislike , and prejudice.

Background of the Study

The Ragit's Burger Shop is a family owned business that is located at Irene cor. Belmar St. Miramonte Subdivision, Lucban, Quezon. It was founded in the year 2007, headed by a married couple with their three children. This shop entices its customers with a wide variety of easy to pick-up foods such as burger and fries, and an array of street foods. Other these said foods, they also offer some rice meals on the go.

The location of the shop is quite ideal due to its close proximity with the local State University and a private High School. Its patrons are usually the students that attend those aforementioned schools.

The shop maintained its reputation by providing a clean foods and a welcoming service. Thus, a lot of customers come back to buy some more. Seeing the popularity of the said shop, the researcher came up with the idea of monitoring the inventory of stocks to ensure total profitable management.

This chapter presents the conceptual framework of the existing system and proposed system that was used in order to illustrate its paradigm. It also includes the view of related literature and studies that was gathered through researchers. Technical and operational terms as defined in definition of terms.

Significance of the Study

- Business Owners

Importance of the Inventory Management Systems. An inventory management system can help you manage your business's inventory and stock items, keeping track of exactly where your assets are and what they're worth. The system also analyzes your business's inventory needs and can even automate your ordering.

- Students

This study will help students to guide them for making system (inventory system).

- Future Researcher

Scope and Delimitation

- Make accessible inventory management

The system is user friendly and can be access easily.

- VB.NET will be used for system structure

The application used in making our system (RIMS) is VB.NET.

- Mysql database is used

The database used in making our system (RIMS) is Mysql.

Statement of the Problem

The difficulty of making the RIMS (Ragit's Inventory Management System)

Specific Problem

The following are the specific problems:

1. Incorrect placements in inventory items
2. Inaccuracy in updating the system
3. Lack of optimization

Objectives of the Study

The main objectives of the study is to develop user friendly system that would replace the manual system activities.

Specific Objectives

The following are the specific objectives of the study:

1. Create an edit and update function in the system
2. To provide a organized products information
3. To collect/provide sufficient data

Definition of Terms

The following terms are the technically and operationally defined in the context of the study.

Inventory. An itemized catalog or list of tangible goods or property , or the intangible attributes or qualities.

Inventory Management. A component of supply chain management , inventory management supervises the flow of goods from manufacturers to warehouses and from these facilities to a point of sale. A key function of inventory management is to keep a detailed record of each new or returned product as it enters or leaves a warehouse or a point of sale.

Product. A good , idea , method , information , object or service created because of a process and serves a need or satisfies a want. It has combination of tangible and intangible attributes (benefits , features , functions , uses) that a seller offers a buyer for purchase.

System. Refers to a set of rules that governs behavior or structure is a set of interacting or interdependent entities forming an integrated whole.

SQL. Referred to as Structured Query Language , is a database computer language designed for managing data in relational databases , management systems (RDBMS) and originally based upon relational alge

Conceptual Framework. Used in research to outline possible courses of action or to present a preferred approach to an idea or thought.

Data. It refers to qualitative or quantitative attributes of a variable or set of variables.

Data Flow Diagram. A graphical representation of "flow" of data through out an information system

Hardware. Component devices which are typically installed into or peripheral to a computer case to create a personal computer upon which system software is installed including a firmware interface such as a BIOS and an operating system which supports application software that performs the operator's desired functions.

Information. Any kind of event that affects the state of a dynamic system.

Inventory. A list compiled for some formal purpose, such as the details of an estate going to probate, or the contents of a house let furnished.

Sales- the act of selling a product or service in return for money or other compensation.

Software. A conceptual entity which is a set of computer programs, procedures, and associated documentation concerned with the operation of a data processing system.

System. A set of interacting or interdependent components forming an integrated whole.

SDLC (System Development Live Cycle). A process of creating or altering information systems, and the models and methodologies that people use to develop these systems.

TPS (Transaction Processing System). A type of information system that collects, stores, modifies and retrieves the data transactions of an enterprise.

Chapter II

REVIEW OF THE RELATED LITERATURES AND STUDIES

Review of Related Literature

In the article entitled "Reason for using an Inventory" (Beck, Kent and Martin Fowler , February 2001) stated that an effective and efficient trip to the inventory begins with a good list and a budget. The customers will proceed on some systematic path by choosing the products in the list , checking the price , reviewing the other offerings as well. Because of the way software development works , software testers do not usually get want really customers really want in buying. All experts agree that using a proper listing of variety of products so that they can easily decide what products they want to buy. Using a list helps minimize the mistakes that something we can make because something was forgotten , and it reduces the waste of unnecessary purchases. How good list is depends on how carefully the cupboards reviewed during preparations.

Foreign Literature

According to Kj Henderson, they have a three major advantages by using of inventory system these are (Time savings, Accuracy, and Consistency) which helps a lot for a businessman to increase the sales of their business.

the product of the technological environment and the end-user is society in general.

Review of Related Studies

This presents both of foreign and local studies. Informations were gathered in other dissertations and research projects in the internet and schools.

Foreign studies

According to a recent Aberdeen Group study(March 2012), companies are prioritizing supply chain visibility, inventory optimization, supply chain analytics, and supply chain outsourcing as ways to cut supply chain management (SCM) costs this year.

According to IBM(October 2012) Innovations such as just-in-time manufacturing bar codes and RFID tags have revolutionized supply chain management. Unfortunately these innovations have brought with it staggering amounts of data to deal with. This white paper outlines some of the major factors affecting inventory and supply chain management.

Local Studies

According to J.De Leon and M. Ferrer (2009) Under the Koread Red Ginseng Enterprise Sales and Inventory System, the researchers came up with a computerized sales and inventory system. The proponents used database to easy access of files and for easier and faster processing of the selling and inventory transaction. The program was designated to generate reports such as monthly reports, inventory reports, sales invoice and list of items.

In the study entitled “Osaka Sales and Inventory System” (Laranang, Maaño and Nañola, 2009) states that business nowadays takes the advantage of using modern technology to improve their status and ensuring an efficient and newer way to make their work easier. They state that the main problem of the Osaka Iridology is what modern effective tool must be used in creating and developing a sales and inventory system that will manage efficiently their transaction. So they develop a system that inclusively for the transaction of Osaka Iridology, such as monitoring of their medicine and their daily sales.

Conceptual Framework

This conceptual framework of the study illustrates the paradigm used using Input – Process – Output (IPO Diagram).

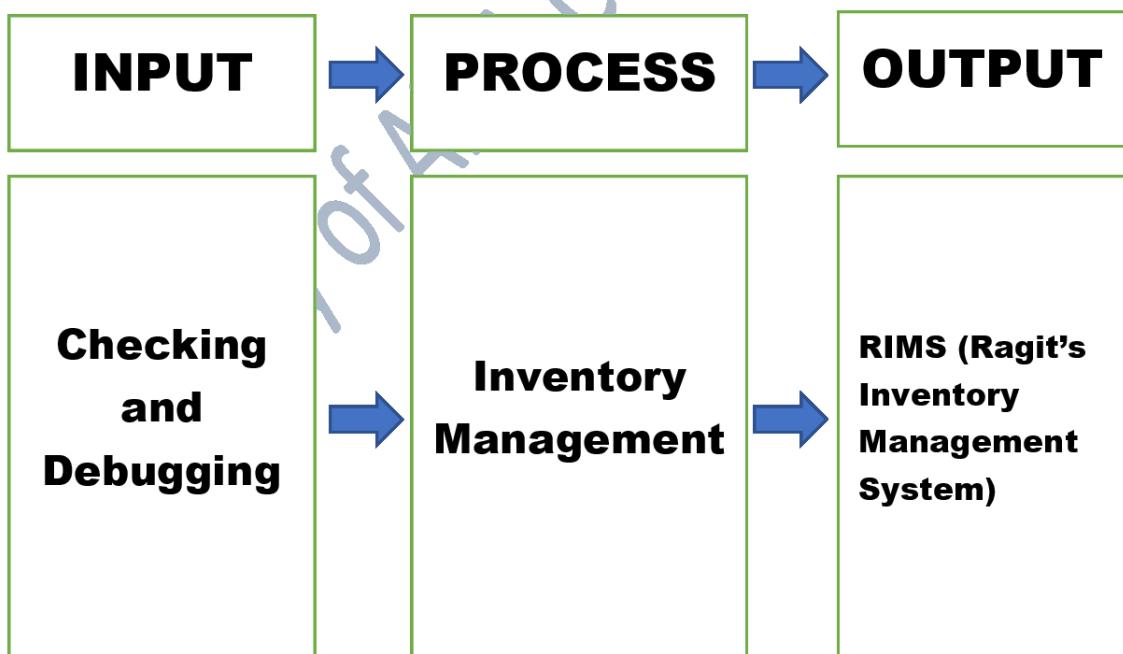


Figure 1 The IPO of the Proposed System

Figure 1 shows how the proposed system works. The system works by manually inputting the employees information and product information. It will process the proposed system using the main form which you can select what specific transaction and the customers services. The proposed system works on how the customers decide want to buy the specific product they want and provide the system and give them the right price listed in it. It also allow the customer to choose a variety drink products. And give also a rate on how they enjoyed the customers service provided.

system , to ensure the smoothly performance of the system. The researcher also start testing it , explain how it properly works and how to use or operate the system.

Methods Used in Product Evaluation

The evaluation must find out the system's performance and if the system satisfies all the objectives of the proponents to the customers who use the proposed system.

Debugging. To search for and eliminate malfunctioning elements or errors in the system.

Security. The software is secured. It is not easily operated outside of management system.

Syntactical Errors. An error in the syntax of a sequence of characters or tokens that is intended to be written in particular programming language. A program will not compile until all the syntax errors are corrected.

Testing. Meant to find defects in the code , or from different angle , and to prove the suitable level that may fit for the management system.

Chapter IV

INTERPRETATION AND ANALYSIS OF DATA

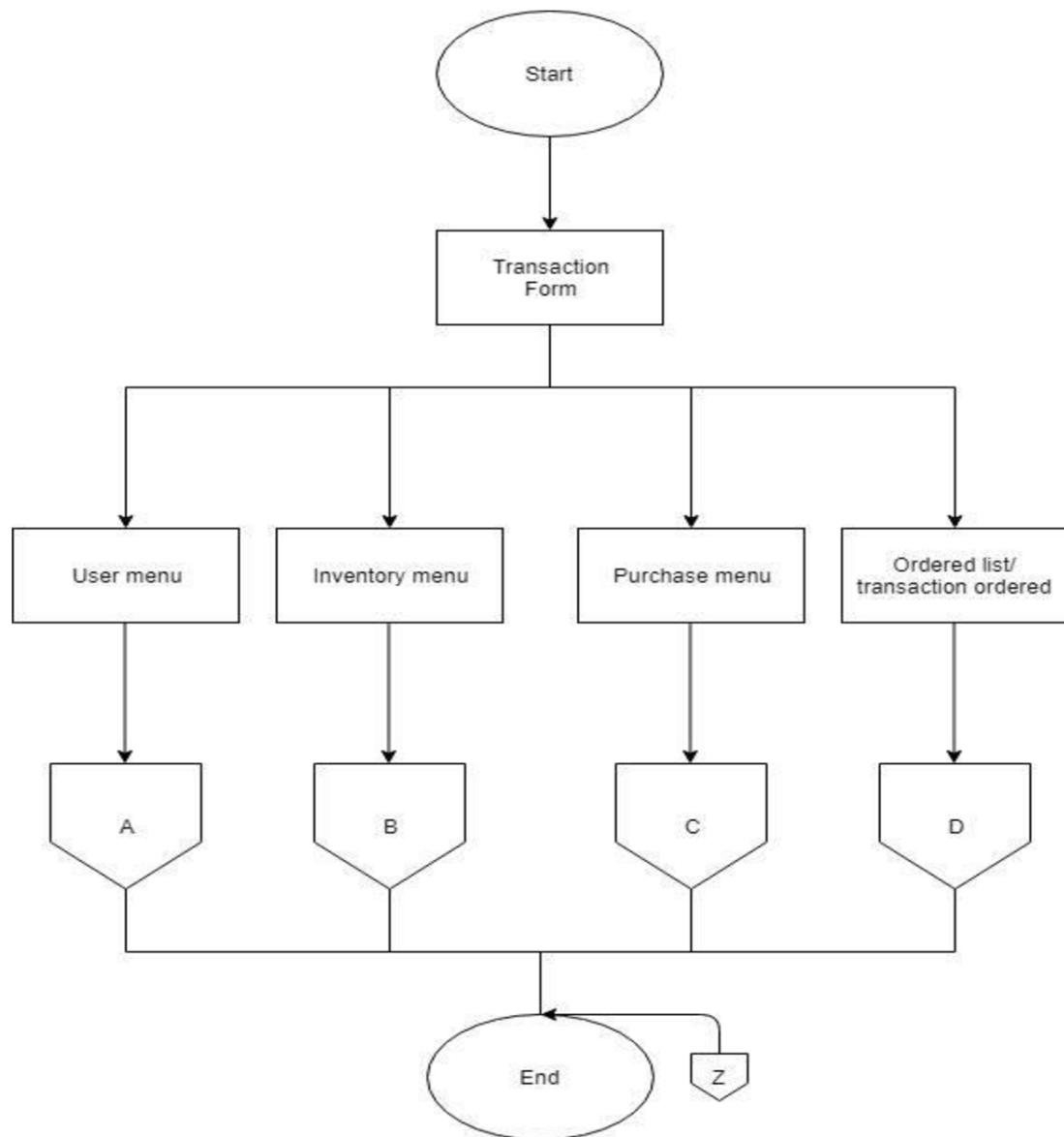


Figure 2 System Flow of the Update System

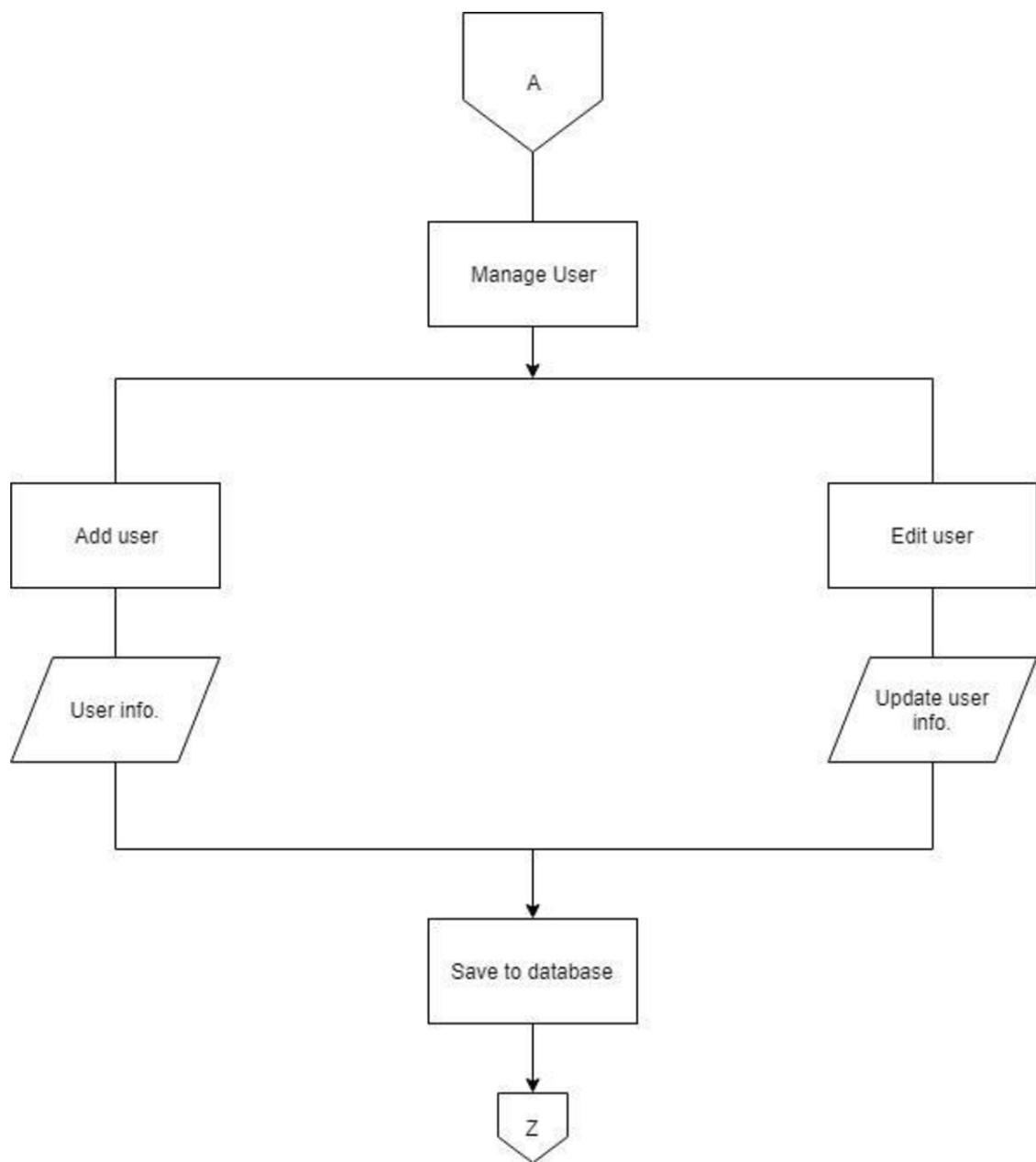


Figure 2.1 System Flow of the Update System

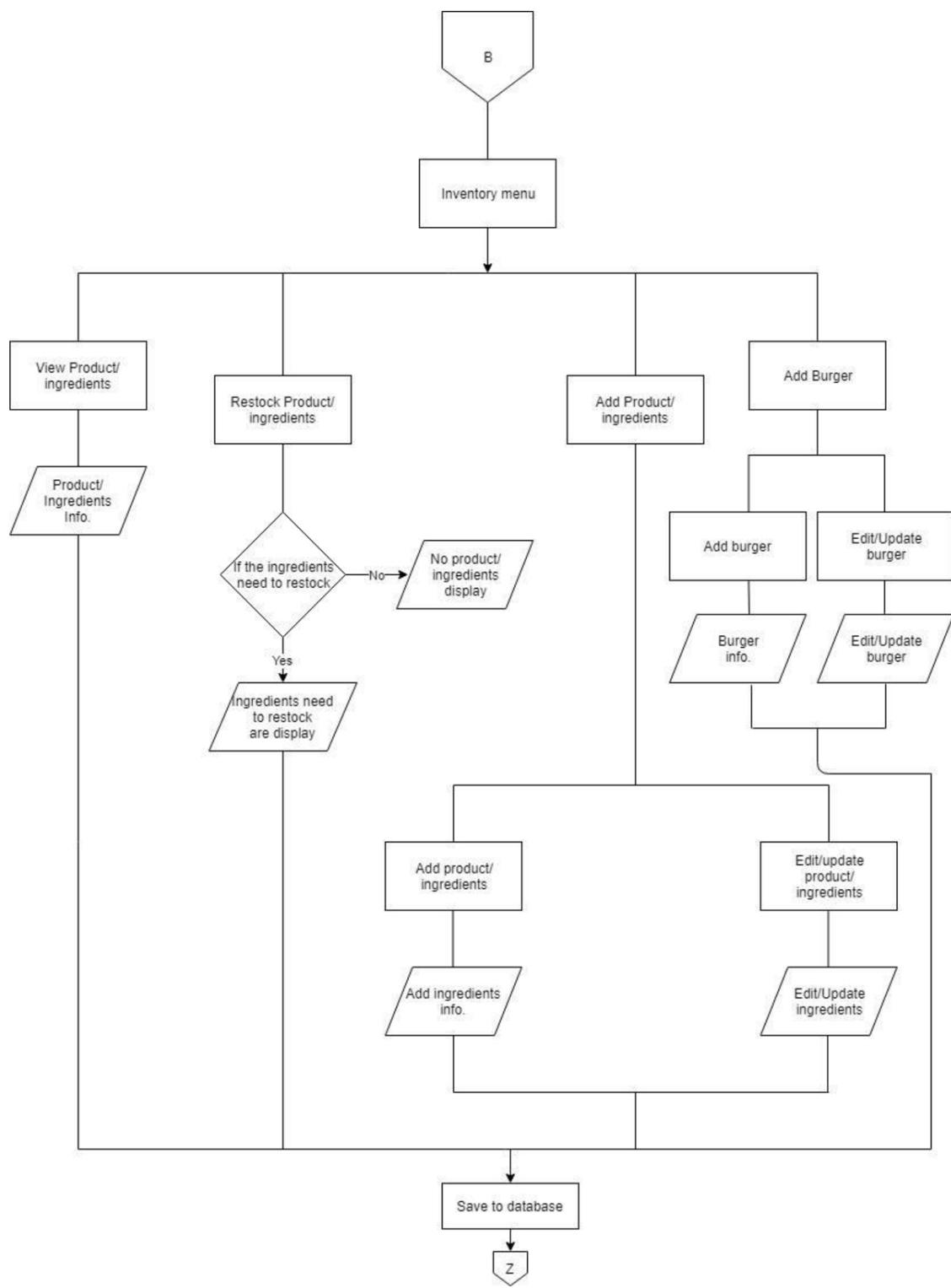


Figure 2.2 System Flow of the Update System

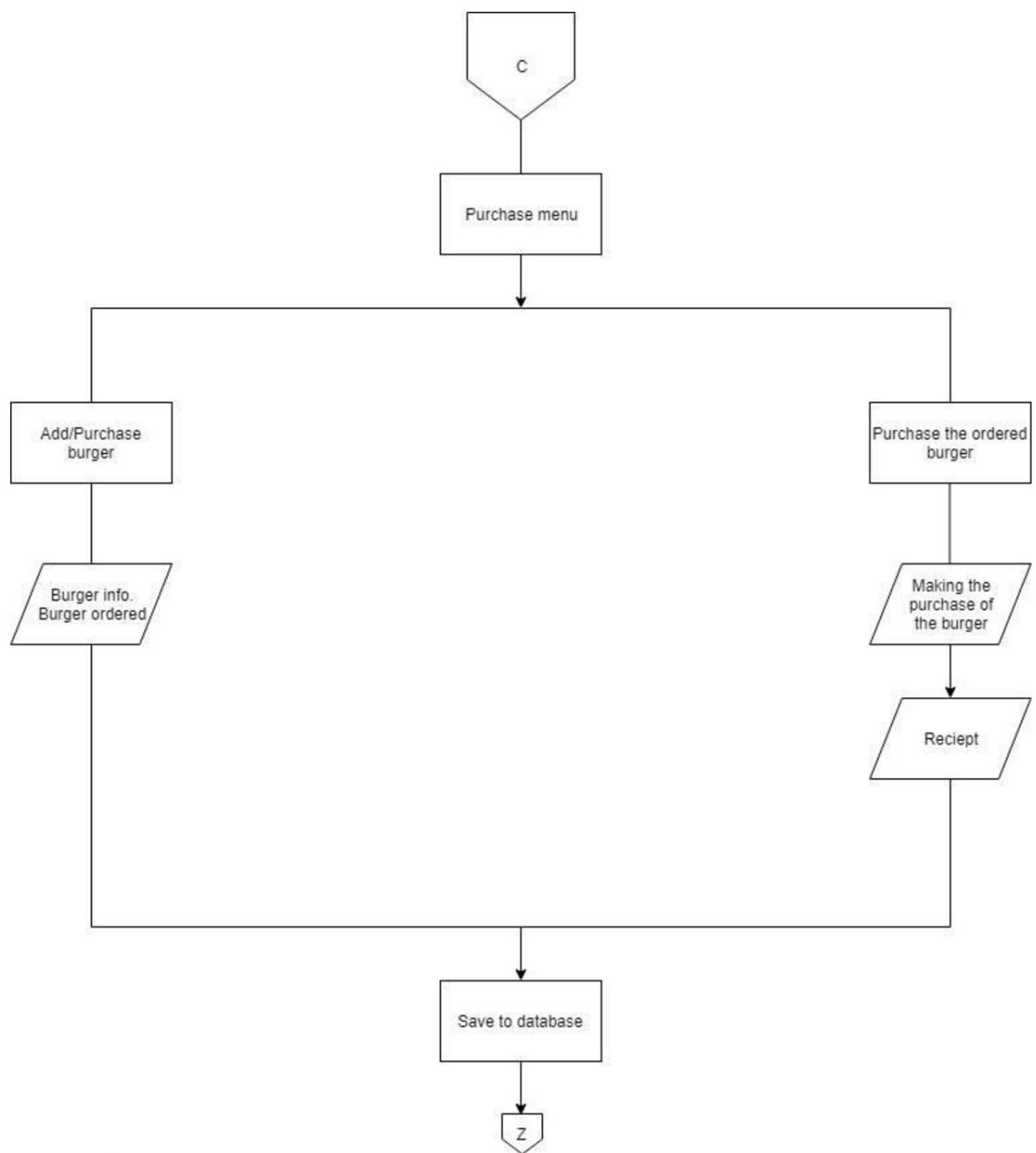


Figure 2.3 System Flow of the Update System

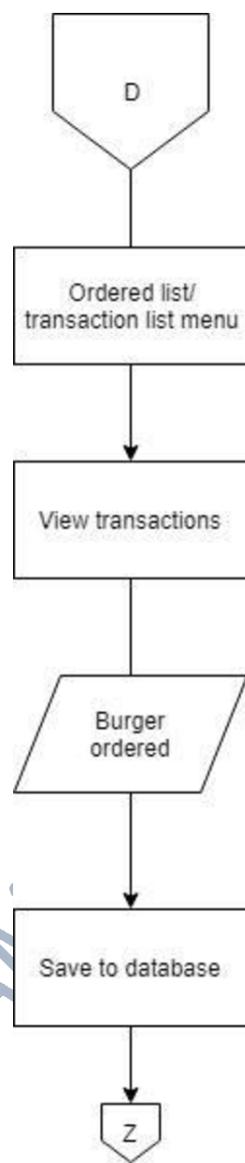
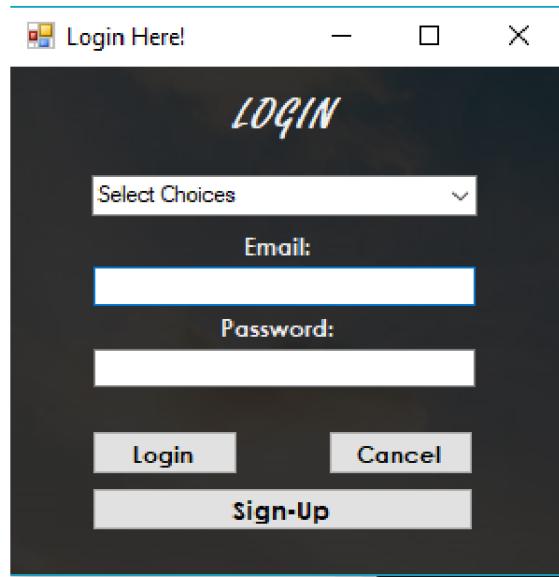


Figure 2.4 System Flow of the Update System

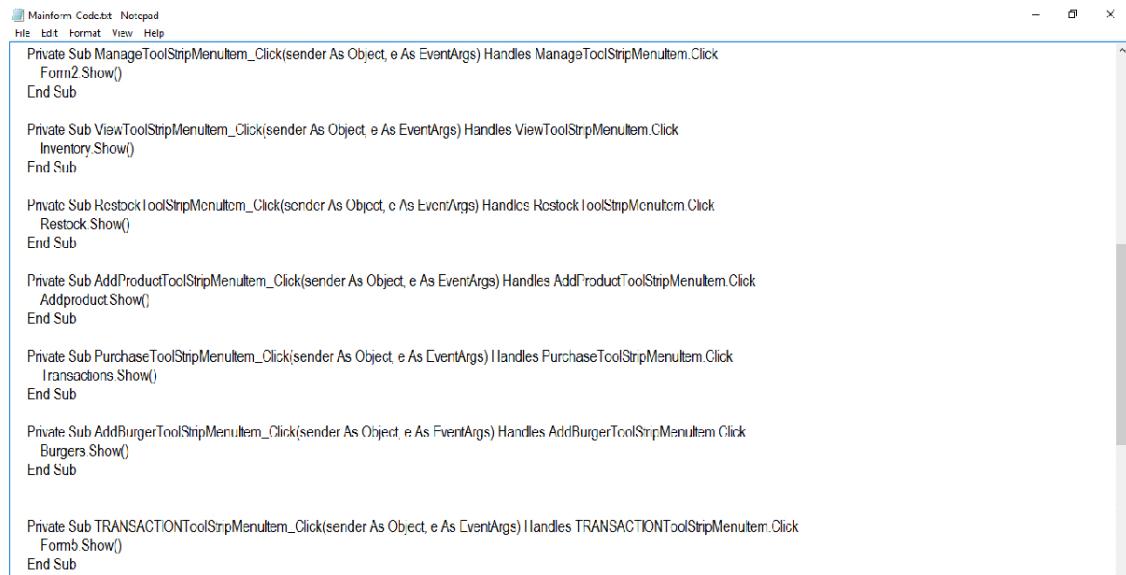


Login Form

```
File Edit Format View Help
Login Code  Notepad
Public Class Form1
    Private Sub Rtb1_login_Click(sender As Object, e As EventArgs) Handles Rtb1_login.Click
        IsConnected("SELECT * from tbl_user WHERE Position = " & ComboBox1.Text & " AND Email = " & TxtEmail.Text & " AND Password = " & TxtPassword.Text & "", False)
        If (myDR.HasRows) Then
            Sample.Show()
            Me.Hide()
        Else
            MsgBox("Incorrect Login Details!")
            TxtPassword.Clear()
        End If
        Call Loader()
    End Sub
    Private Sub Loader()
        If Sample.LogoutToolStripMenuItem.Text = "Logout" Then
            TxtEmail.Clear()
            TxtPassword.Clear()
        End If
    End Sub
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Signup.Show()
        Me.Hide()
    End Sub
End Class
```

A screenshot of a Microsoft Notepad window showing the code for the login form. The code is written in VB.NET and defines a class named Form1. It includes event handlers for the login button click and a button click, as well as a loader function and a logout item in the context menu.

Login Code



Mainform Code.txt Notepad

File Edit Format View Help

```
Private Sub ManageToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles ManageToolStripMenuItem.Click
    Form2.Show()
End Sub

Private Sub ViewToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles ViewToolStripMenuItem.Click
    Inventory.Show()
End Sub

Private Sub RestockToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles RestockToolStripMenuItem.Click
    Restock.Show()
End Sub

Private Sub AddProductToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles AddProductToolStripMenuItem.Click
    Addproduct.Show()
End Sub

Private Sub PurchaseToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles PurchaseToolStripMenuItem.Click
    Transactions.Show()
End Sub

Private Sub AddBurgerToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles AddBurgerToolStripMenuItem.Click
    Burgers.Show()
End Sub

Private Sub TRANSACTIONToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles TRANSACTIONToolStripMenuItem.Click
    Form3.Show()
End Sub
```

Main Form Code #2

```
Private Sub Sample_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    Call Loader()
End Sub

Private Sub ExitToolStripMenuItem1_Click(sender As Object, e As EventArgs) Handles ExitToolStripMenuItem1.Click
    Me.Close()
End Sub

Private Sub LogoutToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles LogoutToolStripMenuItem.Click
    Form1.Show()
    Me.Close()
End Sub

Private Sub ReportToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles ReportToolStripMenuItem.Click
    Sales_report.Show()
End Sub
End Class
```

Main Form Code #3

```
Inventory Code.bas Notepad
File Edit Format View Help
Inventory Code
Public Class Inventory
    Private Sub productview_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
        If IsConnected("SELECT * from product", False)
            Call Loader()
        End Sub
        Private Sub Loader()
            ListView1.Items.Clear()
            While (myDR.Read())
                With ListView1.Items.Add(myDR("D"))
                    SubItems.Add(myDR("Productname"))
                    SubItems.Add(myDR("Quantity"))
                    SubItems.Add(myDR("Price"))
                    SubItems.Add(myDR("Reorderlevel"))
                    SubItems.Add(myDR("Reorderquantity"))
                End With
            End While
        End Sub
        Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
            Sample.Show()
            Sample.Enabled = True
            Me.Close()
        End Sub
        Private Sub txtsearch_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles txtsearch.TextChanged
            If cmbsearch.Text = "Product Name" Then
                If IsConnected("SELECT * from product WHERE Productname LIKE '" & txtsearch.Text & "%'", False)

```

Inventory Code #1

```
        Call Loader()
        If ListView1.Items.Count = 0 Then
            MessageBox.Show("NO PRODUCT FOUND", "WARNING", MessageBoxButtons.OK, MessageBoxIcon.Exclamation)
        End If
    ElseIf cmbsearch.Text = "Product ID" Then
        If IsConnected("SELECT * from product WHERE ID LIKE '" & txtsearch.Text & "%'", False)
            Call Loader()
            If ListView1.Items.Count = 0 Then
                MessageBox.Show("NO PRODUCT FOUND", "WARNING", MessageBoxButtons.OK, MessageBoxIcon.Exclamation)
            End If
        End If
    End Sub
    Private Sub Button4_Click(sender As System.Object, e As System.EventArgs) Handles Button4.Click
        Me.Close()
    End Sub
End Class
```

Inventory Code #2

Addburger Code.txt - Notepad

```

File Edit Format View Help
Addburger Code

Imports MySql.Data.MySqlClient
Public Class Burgers
    Public Sub Clearall()
        TxtId.Clear()
        TxtBurger.Clear()
        TxtPrice.Clear()
    End Sub
    Public Sub Lvloader()
        IsConnected("SELECT * from burgers", False)
        LvBurger.Items.Clear()
    End If
    If (myDR.HasRows) Then
        While (myDR.Read)
            With LvBurger.Items.Add(myDR("ID"))
                .SubItems.Add(myDR("name"))
                .SubItems.Add(myDR("price"))
            End With
        End While
    End If
    End Sub
    Private Sub Loader()
        If Form1.ComboBox1.Text = "Employee" Then
            LvBurger.Enabled = False
            TxtBurger.Enabled = False
            TxtId.Enabled = False
        End If
    End Sub

```

Add Burger Code #1

Addburger-Code.txt - Notepad

```

File Edit Format View Help
TxtPrice.Enabled = False

BnAdd.Enabled = False
BnBack.Enabled = False
BnCancel.Enabled = False
BnEdit.Enabled = False
BnDelete.Enabled = True
BnSave.Enabled = False
End If
End Sub
Private Sub BnAdd_Click(sender As Object, e As EventArgs) Handles BnAdd.Click
    TxtBurger.Enabled = True
    TxtPrice.Enabled = True

    BnCancel.Enabled = True
    BnSave.Enabled = True
    BnEdit.Enabled = True
    BnDelete.Enabled = True
    LvBurger.Enabled = True
End Sub

Private Sub BnSave_Click(sender As Object, e As EventArgs) Handles BnSave.Click
    Try
        If BnSave.Tag = "Update" Then
            IsConnected("UPDATE burgers SET name = " & TxtBurger.Text & ",",
                       "Price = " & TxtPrice.Text & "",
                       "WHERE Id = " & TxtId.Text & "", True)
            MessageBox.Show("Updated Successfully!")
        End If
    End Try

```

Add Burger Code #2

```

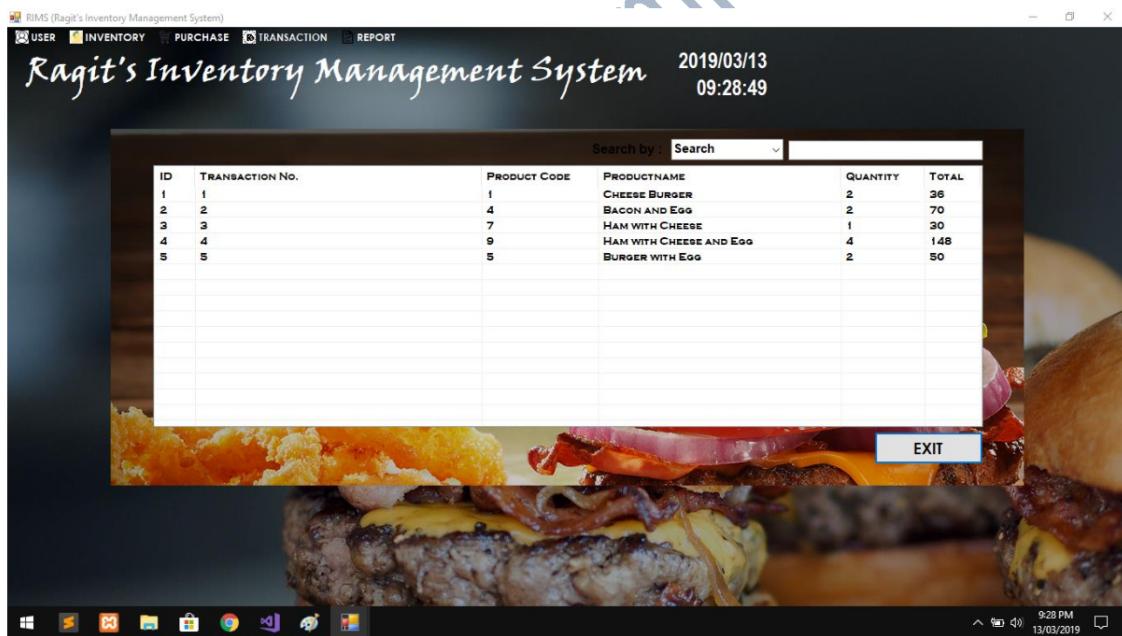
Purchase Code.txt Notepad
File Edit Format View Help
btQuantity.Focus()
Else
    btTotal.Text = (Val(btPrice.Text) * Val(txQuantity.Text)) * (0) / 100
    btTotal.Text = (Val(btPrice.Text) * Val(txQuantity.Text)) - btTotal.Text
End If
End Sub
Private Sub bncancel_Click(sender As Object, e As EventArgs) Handles bncancel.Click
Dim ID As Integer
Dim burger As Integer
Dim total As Double
ID = Val(LvBurger.SelectedItems(0).SubItems(0).Text)
burger = Val(LvBurger.SelectedItems(0).SubItems(1).Text)
total = Val(LvBurger.SelectedItems(0).SubItems(2).Text)
IsConnected("SELECT * from product where ID = " & LvBurger.SelectedItems(0).SubItems(0).Text & "", False)
If myDR.Read() = True Then
    burger = burger + myDR("Quantity")
End If

IsConnected("UPDATE product set Quantity = " & burger & " where ID = " & LvBurger.SelectedItems(0).SubItems(1).Text & "", True)
IsConnected("DELETE from tb_transaction where ID = " & ID, True)
Call l_order?()
End Sub

Private Sub btPurchase_Click(sender As Object, e As EventArgs) Handles btPurchase.Click
    Process.Show()
    Process.txtTotal.Text = txPurchase.Text
End Sub
End Class

```

Purchase Code #8



Transaction Form

```
Transaction-Code.vb - Notepad
File Edit Format View Help
Transaction Code
Public Class Form5
    Private Sub Form5_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load
        IsConnected("SELECT * from tbl_transaction", False)
        Call Loader()
        Call Loader1()
    End Sub

    Private Sub Loader()
        ListView1.Items.Clear()

        While (myDR.Read())
            With ListView1.Items.Add(myDR("ID"))
                .SubItems.Add(myDR("transactionnum"))
                SubItems.Add(myDR("prodcode"))
                SubItems.Add(myDR("productname"))
                SubItems.Add(myDR("quantity"))
                SubItems.Add(myDR("total"))
            End With
        End While
    End Sub

    Private Sub Loader1()
        If Form1.ComboBox1.Text = "Customer" Then
            IsConnected("SELECT * from tbl_transaction JOIN tbl_user WHERE Position = " & Form1.ComboBox1.Text & "", False)
        End If
    End Sub
End Class
```

Transaction Code #1

```
Private Sub txtsearch_TextChanged(sender As Object, e As EventArgs) Handles txtsearch.TextChanged
    If txtsearch.Text = "Productname" Then
        IsConnected("SELECT * from tbl_transaction WHERE productname LIKE "" & txtsearch.Text & "%", False)
        Call Loader()
        If ListView1.Items.Count = 0 Then
            MessageBox.Show("NO PRODUCT FOUND", "WARNING", MessageBoxButtons.OK, MessageBoxIcon.Exclamation)
        End If
    ElseIf txtsearch.Text = "Product ID" Then
        IsConnected("SELECT * from tbl_transaction WHERE ID LIKE "" & txtsearch.Text & "%", False)
        Call Loader()
        If ListView1.Items.Count = 0 Then
            MessageBox.Show("NO PRODUCT FOUND", "WARNING", MessageBoxButtons.OK, MessageBoxIcon.Exclamation)
        End If
    End If
End Sub
End Class
```

Transaction Code #2

```
Connection Module CodeNet Notepad
File Edit Format View Help
Connection Module Code
Imports MySql.Data.MySqlClient
Module Connection
    Public myConn As New MySqlConnection
    Public myCmd As New MySqlCommand
    Public myDR As MySqlDataReader
    Public fUpdate As Boolean

    Public Function IsConnected(ByVal strQry As String, ByVal ver As Boolean) As Integer
        Try
            If myConn.State = ConnectionState.Open Then myConn.Close()
            myConn.ConnectionString = "host = 127.0.0.1; user = root; database = garbo; SSL Mode = none"
            myConn.Open()

            myCmd.CommandText = strQry
            myCmd.Connection = myConn

            If ver = False Then
                myDR = myCmd.ExecuteReader()
            Else
                myCmd.ExecuteNonQuery()
            End If
        Catch ex As Exception
        End Try
        Return 0
    End Function
End Module
```

For The Connection

Property of AMA Computer,
Cebu City, Philippines

Chapter V

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Summary

The inventory management system is good for the vendors as well as the customers as they can access the system anytime to browse and choose for the specific product that they want to buy. Ragit's Burger Shop offers burger and fries and array of street foods. The shop maintained its reputation by providing clean foods and welcoming service that satisfies the needs of customers. The system helps the customers by manually inputting the product and employee's information. Though the system, the user are secured clients in ordering products in Ragit's Inventory Management.

Conclusion

The researcher conclude that the Inventory management system will lessen the task of researcher in conducting some study about the system. The system generates results automatically.

Recommendation

Based to the system that the proponents made, they recommended the following:

1. The future researchers must enhance of capability in adding some more features and process to it like:
 - a. Personal Information System Secured
 - b. User-friendly system



**Ragit's Inventory Management System
(RIMS)**

A Research Paper Presented to the Dean of the

Department of Computer Studies

AMA Computer College

Lucena Campus

In Partial Fulfillment of the Requirements In the Subject

BY

Barola, Ron Ivan

Batilo, John Matthew

Cantos, Daniel

Ragit, Joshua

Ramos, Carl Garvie

February 2019