MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

MICRO-PROJECT REPORT
ON
"Hotel Management System"

Diploma in Computer Engineering

Submitted By

Name: Pruthesh Neminath Upadhye

Roll No:- 2073

Subject: **GUI Application Development using VB.net**

.

Guided By: **Mr. G.A.Ghodake**

ASHOKRAO MANE POLYTECHNIC, VATHAR

Department of Computer Engineering

A.Y. 2023-24

DECLARATION

I hereby declare that the Micro-Project Report entitled "**GUI Application Development using VB.net"** with Module **"Hotel Management System."** is an authentic record of my own work as requirements of Micro Project during the period from **/ / 2024** to / **/ 2024** in partial fulfillment of **Second Year** in **Computer Engineering, Ashokrao Mane Polytechnic, Vathar** under theguidance of **Mr. G.A.Ghodake.**

Signature of Student

Pruthesh Neminath Upadhye

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Date: / / 2024

Place: Vathar, Kolhapur.

ACKNOWLEDGMENT

The successful presentation of the "**GUI Application Development using VB.Net"** would be incomplete without the mention of the people who made it possible and whose constant guidance crowned my effort with success.

I would like to extend my gratitude to HOD of Computer Department **Mr. S.A. Lakade**, Kolhapur, for providing all the facilities to present this Micro-Project.

I would like to thank our Project Guide, **Mr.G.A.Ghodake.** Department of Computer Engineering, Ashokrao Mane Polytechnic, Vathar, for their constant guidance and inputs.

Sincerely,

Pruthesh Neminath Upadhye

Place: Vathar , Kolhapur.

INDEX

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1. Report

1.1] Abstract

The GUI allows the user to operate the system through icons, drop-down menus, windows and a clicking device. The GUI avoids the user having to memorize and use complex functions, commands and options, thereby simplifying and enhancing the user experience. The purpose of this project is to give you practice with graphics using interface programming in .net. This project implemented using the components from icons, graphic representations, windows and a clicking device. The direct manipulation of graphical icons, such as buttons, scroll bars, windows, tabs, menus, cursors, and the mouse pointing device, is becoming the standard for user-centered design in software application programming. Graphical user interfaces (GUIs) allow users to operate computers and other electronic devices intuitively. Many current graphical user interfaces have a touchscreen and voice-command feature.

1.2] Title: Hotel Management System.

1.3] Introductions:

A graphical user interface, or GUI (/ˈguːi/[1][2] GOO-ee), is a form of user interface that allows users to interact with electronic devices through graphical icons and visual indicators such as secondary notation. In many applications, GUIs are used instead of text-based UIs, which are based on typed command labels or text navigation. GUIs were introduced in reaction to the perceived steep learning curve of command-line interfaces (CLIs),[3][4][5] which require commands to be typed on a computer keyboard.

The actions in a GUI are usually performed through direct manipulation of the graphical elements.[6][7][8] Beyond computers, GUIs are used in many handheld mobile devices such as MP3 players, portable media players, gaming devices, smartphones and smaller household, office and industrial controls. The term GUI tends not to be applied to other lower-display resolution types of interfaces, such as video games (where head-up displays (HUDs)[9] are preferred), or not including flat screens like volumetric displays[10] because the term is restricted to the scope of 2D display screens able to describe generic information, in the tradition of the computer science research at the Xerox Palo Alto Research Center.

1.4] Course Outcome Integrated:

a) Describe GUI concepts.

b) Apply fundamental programming constructs.

c) Illustrate the concept of drag, drop, classes and object.

d) Elaborate the concept of string, Inheritance & try catch.

e) Describe and use constructors and destructors.

f) Implement the concept of inheritance.

g) Implement the notion of exception handling and multithreading.

h) Understand student record card system.

1.5] Actual Procedure Followed:

1. Understand the Work
2. Data Collation
3. Taking references from Book and Internet
4. Preparing a Report
5. Actual time of Writing Program
6. Execution of a Program/ Generating Output
7. Preparation
8. Project Submission

1.6] Actual Resourced Used:

Sr. No	Name of Resource	Specification	Quantity	Remark
1.	Computer	Window 11, 8GB Ram	1	-
2.	Visual Studio 2022	Software	1	-
3.	Internet	Google	-	-
4.	Book	Graphics Using Interface	1	-

1.7] Output of Micro-Project:

Organize ideas in systematic, Logical and Coherent Manner. It helps me to deal with the errors. It's also helps me to get knowledge to solve the Problems.

This Micro-Project is excepted to make programs of Blood Donation Management System using interfaces and also GUI Programming Language. The output of the program is attached at the end of this project.

1.8] Skill Developed/Learning outcomes of this Micro-Project:

Self Learning, Presentation, Punctuality, Applying and Analyzing the reallife concept, Evaluation and Creativity:

a) Monitor

b) Checks output

c) Revise

d) Creating the Logical Imagination into a real using Object Oriented Programming Language.

2.Actual Implementation of Micro-Project:

2.1] Hotel Management System with Program Code and Output.

Code :

```
Imports System.Data.OleDb
Imports System.Drawing.Text
Imports System.Net.Security
Public Class Form1

    Dim connectionString As String = "Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\Dell\OneDrive\Desktop\main\hotelM.accdb;"

    Dim cmd As New OleDbCommand()
    Dim ad As New OleDbDataAdapter

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

        Dim username As String = TextBox1.Text
        Dim password As String = TextBox2.Text

        If AuthenticateUser(username, password) Then
            MessageBox.Show("Login Successful!")
            TextBox1.Clear()
            TextBox2.Clear()
            Form4.Show()


        Else
            MessageBox.Show("Invalid username or password. Please try again.")
            TextBox1.Clear()
            TextBox2.Clear()

        End If
    End Sub
    Private Function AuthenticateUser(username As String, password As String) As Boolean
        Dim query As String = "SELECT COUNT(*) FROM admin WHERE name = @username AND
password = @password"
        Using connection As New OleDbConnection(connectionString)
            Using command As New OleDbCommand(query, connection)
                command.Parameters.AddWithValue("@username", username)
                command.Parameters.AddWithValue("@password", password)
                connection.Open()
                Dim count As Integer = Convert.ToInt32(command.ExecuteScalar())
                Return count > 0
            End Using
        End Using
    End Function

    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        Me.WindowState = FormWindowState.Maximized
    End Sub

    Private Sub CheckBox1_CheckedChanged(sender As Object, e As EventArgs) Handles
CheckBox1.CheckedChanged
        If CheckBox1.Checked Then
            TextBox2.PasswordChar = ""
```

```
        Else
            TextBox2.PasswordChar = "*"
        End If
    End Sub

    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click


        Form3.Show()

    End Sub
End Class


Imports System.Data.OleDb
Public Class Form2
    Dim    mycon    As    New    OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\Dell\OneDrive\Desktop\main\hotelM.accdb")


    Private Sub Form2_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        Me.WindowState = FormWindowState.Maximized
    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        mycon.Open()
        Dim cmd As New OleDbCommand("INSERT INTO admin(name, [password], mobileno, email)
VALUES ('" + TextBox1.Text + "','" + TextBox2.Text + "','" + TextBox4.Text + "','" +
TextBox5.Text + "')", mycon)

        Try
            If  TextBox1.Text  =  ""  Or  TextBox2.Text  =  ""  Or  TextBox3.Text  =  ""  Or
TextBox4.Text = "" Or TextBox5.Text = "" Then

                MsgBox("Enter Information Properly !")

            ElseIf TextBox2.Text = TextBox3.Text Then

                cmd.ExecuteNonQuery()
                mycon.Close()
                MsgBox("Admin Added Successfully..!")
                TextBox1.Clear()
                TextBox2.Clear()
                TextBox3.Clear()
                TextBox4.Clear()
                TextBox5.Clear()
            Else
                MsgBox("Password Does Not Match")
            End If

        Catch ex As Exception

            MsgBox(ex.Message)
        End Try
    End Sub
End Class

Imports System.Windows.Forms.VisualStyles.VisualStyleElement
```

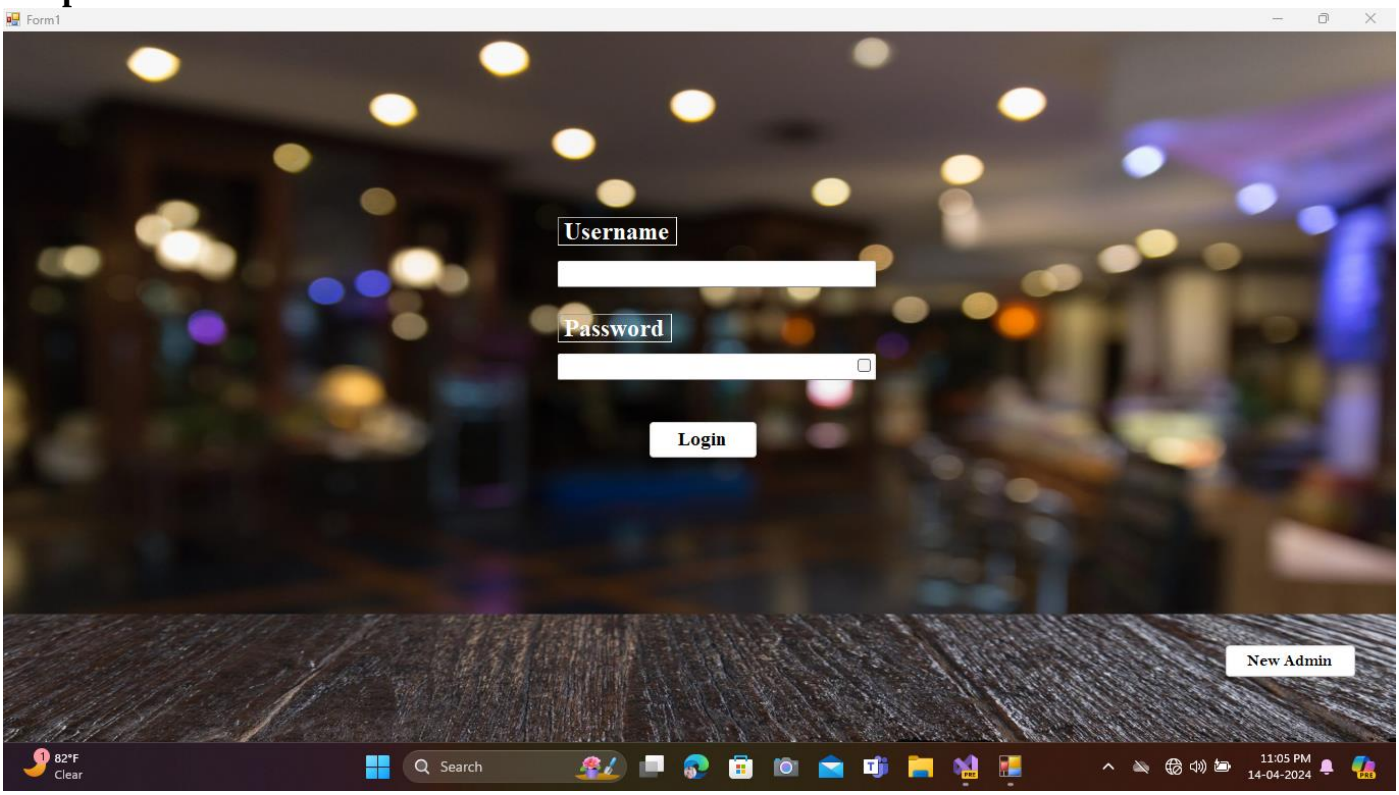
```
Public Class Form3
    Private Sub Form3_Load(sender As Object, e As EventArgs) Handles MyBase.Load

        Me.WindowState = FormWindowState.Maximized
    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        If TextBox1.Text = "SYCOb" Then

            Form2.Show()
            Me.Close()
        Else
            MsgBox("Your Not Allowed To Create An Admin.")
            TextBox1.Clear()


        End If
    End Sub

    Private Sub CheckBox1_CheckedChanged(sender As Object, e As EventArgs) Handles
CheckBox1.CheckedChanged
        If CheckBox1.Checked Then
            TextBox1.PasswordChar = ""

        Else
            TextBox1.PasswordChar = "*"
        End If
    End Sub
Imports System.Data.OleDb
Imports System.Windows.Forms.VisualStyles.VisualStyleElement
Public Class Form4

    Dim cmd As OleDbCommand

    Private Sub Form4_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        Me.WindowState = FormWindowState.Maximized
        TabControl1.Dock = DockStyle.Fill
    End Sub


    Dim mycon As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\Dell\OneDrive\Desktop\main\hotelM.accdb")
    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click

        mycon.Open()

        Dim mycmd As New OleDbCommand("insert into
Order_NVeg(Chiken,Roti,Rice,Mutton,Eggs,Sweet,Q_P_C,Q_P_R,Q_P_Ri,Q_P_M,Q_P_E,Q_P_S)values
('" + ComboBox1.Text + "','" + ComboBox2.Text + "','" + ComboBox3.Text + "','" +
ComboBox4.Text + "','" + ComboBox5.Text + "','" + ComboBox6.Text + "','" + ComboBox7.Text
+ "','" + ComboBox8.Text + "','" + ComboBox9.Text + "','" + ComboBox10.Text + "','" +
ComboBox11.Text + "','" + ComboBox12.Text + "')", mycon)
        '  Dim  q1  As  New  OleDbCommand("SELECT  SUM(  VAL(  Q_P_C)+VAL(  Q_P_R)+VAL(
Q_P_Ri)+VAL( Q_P_M)+ VAL(Q_P_E)+VAL(Q_P_S) Total FROM Order_NVeg ", mycon)
        Try

            mycmd.ExecuteNonQuery()
            mycon.Close()

            MsgBox("Order Placed")
```

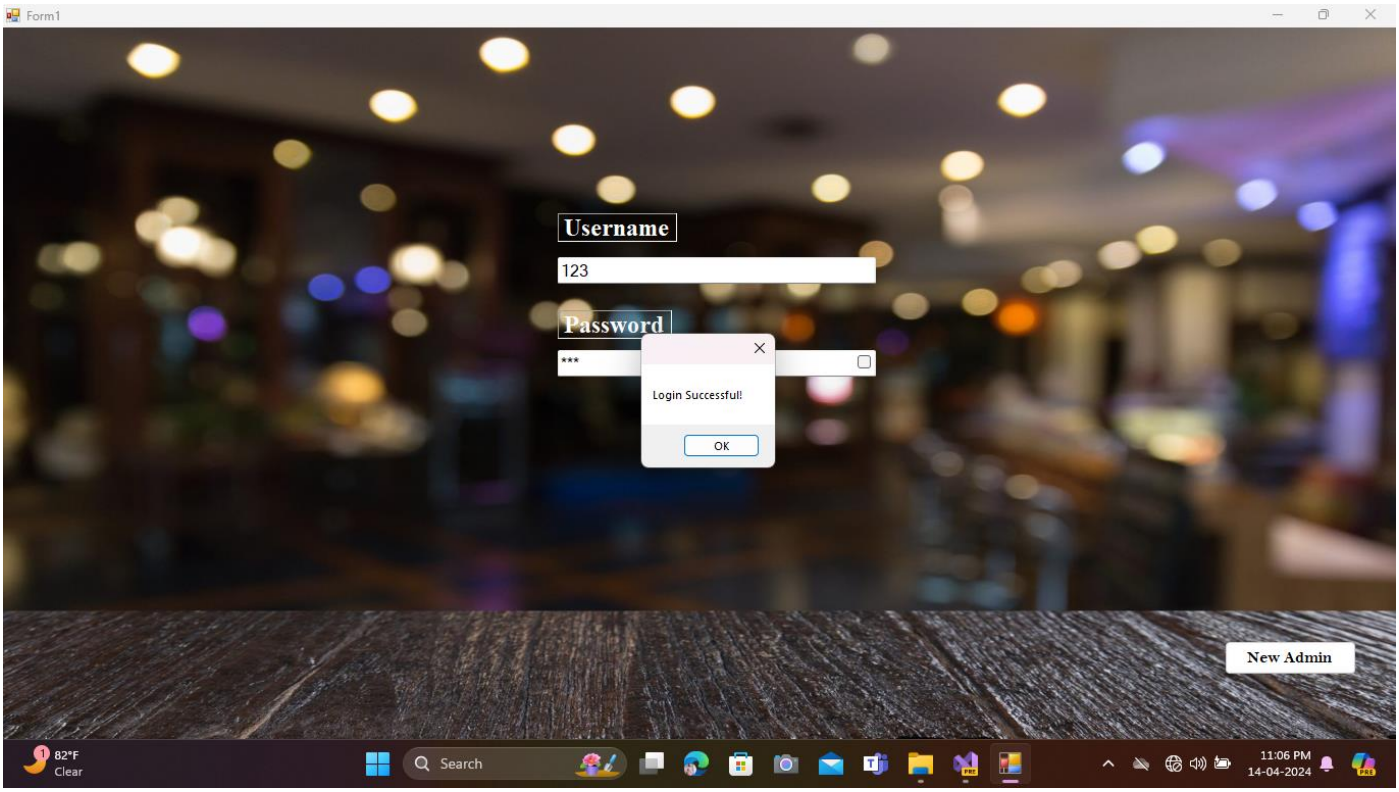
```
        Catch ex As Exception
            MsgBox(ex.Message)
        End Try

    End Sub

    Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
        Form5.Show()

    End Sub


    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Dim oid As String
        oid = TextBox2.Text
        cmd = New OleDbCommand("Select * from Order_NVeg where ID='" + TextBox1.Text +
"'", mycon)
        cmd = New OleDbCommand("update Order_NVeg Set Chiken='" + ComboBox1.Text + "'
,Roti='" + ComboBox2.Text + "',Rice='" + ComboBox3.Text + "',Mutton='" + ComboBox4.Text +
"',Eggs='" + ComboBox5.Text + "',Sweet='" + ComboBox6.Text + "',Q_P_C='" + ComboBox7.Text
+ "',Q_P_R='" + ComboBox8.Text + "',Q_P_Ri='" + ComboBox9.Text + "',Q_P_M='" +
ComboBox10.Text + "',Q_P_E='" + ComboBox11.Text + "' ,Q_P_S='" + ComboBox12.Text +
"'where ID=" + TextBox2.Text + "", mycon)
        mycon.Open()
        cmd.ExecuteNonQuery()
        mycon.Close()
        MsgBox("Your Order Successfully Updated")

    End Sub

    Private Sub Button5_Click(sender As Object, e As EventArgs) Handles Button5.Click
        Form6.Show()

    End Sub

    Private Sub Button6_Click(sender As Object, e As EventArgs) Handles Button6.Click

        ' mycon.Open()

        Dim my As New OleDbCommand("insert into order_veg(Bhaji, Panner, Pulav, Roti,
Rice, Sweet, Q_P_B, Q_P_P, Q_P_Pu, Q_P_R, Q_P_Ri, Q_P_S)values('" + ComboBox24.Text +
"','" + ComboBox21.Text + "','" + ComboBox20.Text + "','" + ComboBox23.Text + "','" +
ComboBox22.Text + "','" + ComboBox19.Text + "','" + ComboBox18.Text + "','" +
ComboBox17.Text + "','" + ComboBox16.Text + "','" + ComboBox15.Text + "','" +
ComboBox14.Text + "','" + ComboBox13.Text + "')", mycon)
        '  Dim q1 As New OleDbCommand("SELECT SUM( VAL( Q_P_C)+VAL( Q_P_R)+VAL(
Q_P_Ri)+VAL( Q_P_M)+ VAL(Q_P_E)+VAL(Q_P_S) Total FROM Order_NVeg ", mycon)
        Try
            mycon.Open()

            my.ExecuteNonQuery()
            mycon.Close()

            MsgBox("Order Placed")


        Catch ex As Exception
            MsgBox(ex.Message)
```

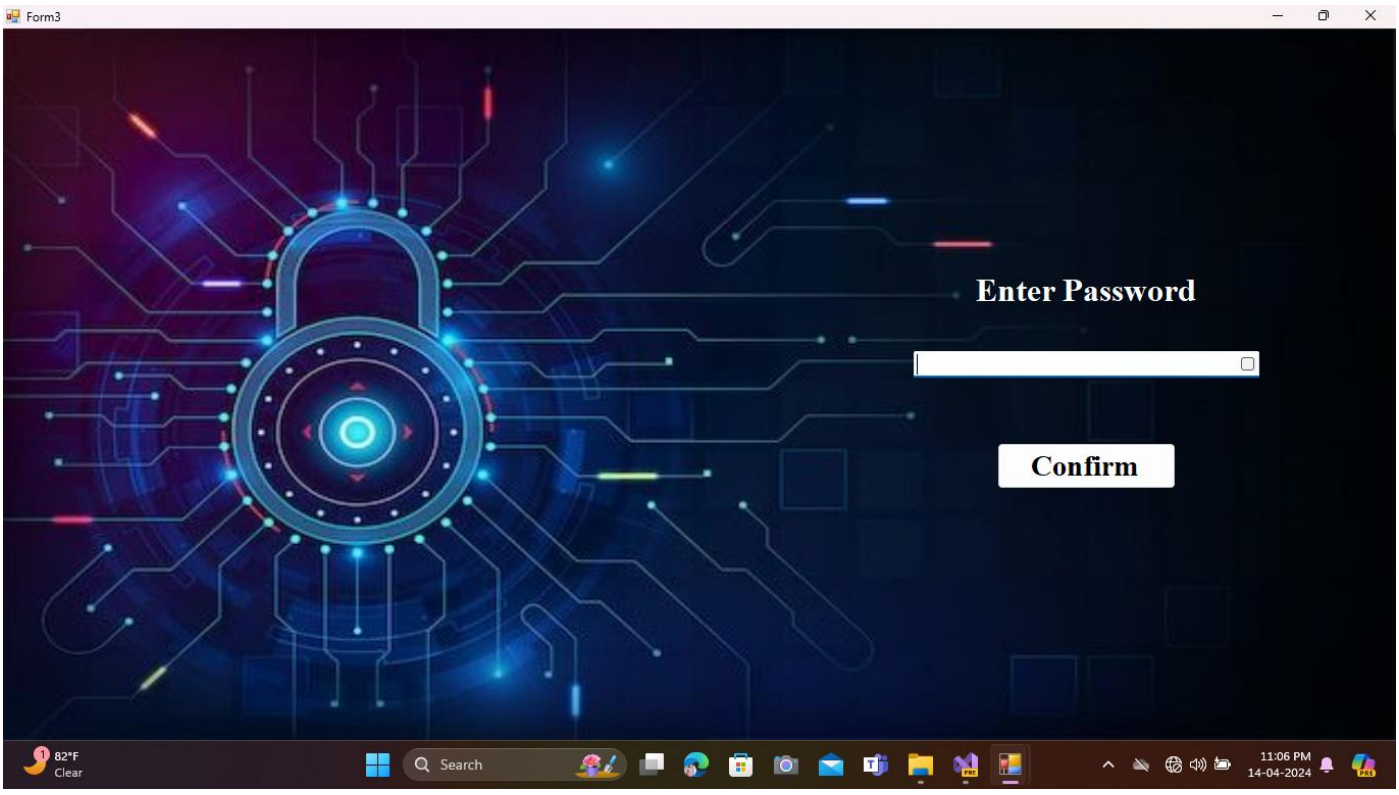
```
        End Try
    End Sub

    Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
        Dim oi As String
        oi = TextBox1.Text
        cmd = New OleDbCommand("Select * from order_veg where ID='" + oi + "'", mycon)
        cmd = New OleDbCommand("update order_veg Set Bhaji='" + ComboBox24.Text + "'
,Panner='" + ComboBox21.Text + "',Pulav='" + ComboBox20.Text + "',Roti='" +
ComboBox23.Text + "',Rice='" + ComboBox22.Text + "',Sweet='" + ComboBox19.Text +
"',Q_P_B='" + ComboBox18.Text + "',Q_P_P='" + ComboBox17.Text + "',Q_P_Pu='" +
ComboBox16.Text + "',Q_P_R='" + ComboBox15.Text + "',Q_P_Ri='" + ComboBox14.Text + "'
,Q_P_S='" + ComboBox13.Text + "'where ID=" + oi + "", mycon)
        mycon.Open()
        cmd.ExecuteNonQuery() '
        mycon.Close() '
        MsgBox("Your Order Successfully Updated") '

    End Sub

End Class

Imports System.Data.OleDb

Public Class Form5
    Dim mycon As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\Dell\OneDrive\Desktop\main\hotelM.accdb")
    Dim ad As New OleDbDataAdapter
    Dim ds As New DataSet
    Dim cmd As New OleDbCommand


    Private Sub Form5_Load(sender As Object, e As EventArgs) Handles MyBase.Load

        Me.WindowState = FormWindowState.Maximized




    End Sub
    ' Dim a = TextBox1.Text = 0'


    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

        'Dim ip As String = TextBox1.Text'
        ds.Clear()
        mycon.Open()
        ad = New OleDbDataAdapter("SELECT  ID, Chiken, Roti, Rice, Mutton, Eggs, Sweet,
Q_P_C, Q_P_R, Q_P_Ri, Q_P_M, Q_P_E, Q_P_S FROM Order_NVeg", mycon)
        ad.Fill(ds)
        ad = New OleDbDataAdapter("SELECT  SUM(VAL(Q_P_C)+VAL(Q_P_E) + VAL(Q_P_M) +
VAL(Q_P_S) + VAL(Q_P_Ri) + VAL(Q_P_R)) AS Total  FROM  Order_NVeg WHERE ID = 20", mycon)
        ad.Fill(ds)

        mycon.Close()
        DataGridView1.DataSource = ds.Tables(0)


    End Sub
```

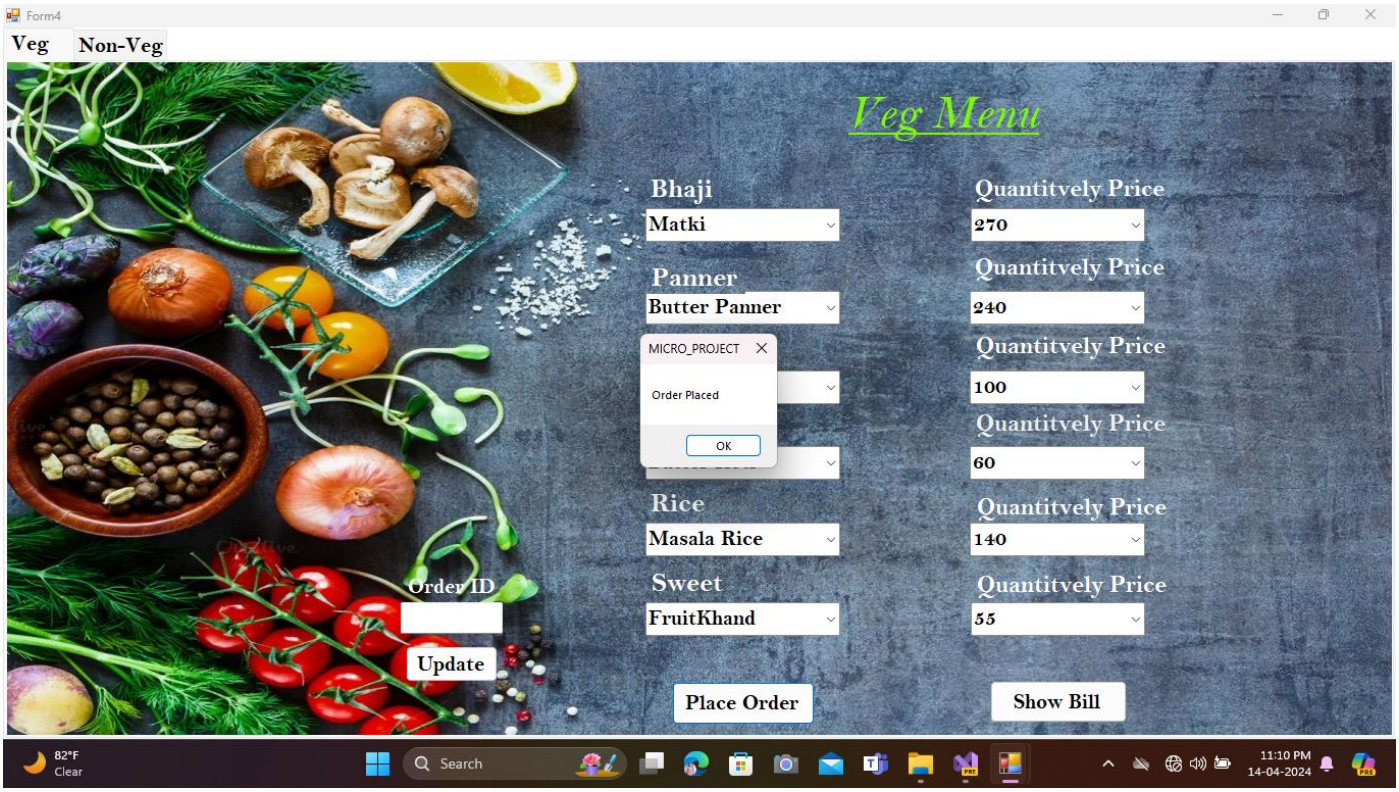
```
End Class

Imports System.Data.OleDb

Public Class Form6

    Dim    mycon    As    New    OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\Dell\OneDrive\Desktop\main\hotelM.accdb")
    Dim ad As New OleDbDataAdapter
    Dim ds As New DataSet
    Dim cmd As New OleDbCommand
    Private Sub Form6_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        Me.WindowState = FormWindowState.Maximized
    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        ds.Clear()
        mycon.Open()
        ad = New OleDbDataAdapter("SELECT  ID, Bhaji, Panner, Pulav, Roti, Rice, Sweet,
Q_P_B, Q_P_P, Q_P_Pu, Q_P_R, Q_P_Ri, Q_P_S FROM order_veg", mycon)
        ad.Fill(ds)
        ad  =  New  OleDbDataAdapter("SELECT  SUM(VAL(Q_P_B)+VAL(Q_P_P)  +  VAL(Q_P_Pu)  +
VAL(Q_P_R) + VAL(Q_P_Ri) + VAL(Q_P_S)) AS Total  FROM  order_veg WHERE ID = 7", mycon)
        ad.Fill(ds)

        mycon.Close()
        DataGridView1.DataSource = ds.Tables(0)

    End Sub
End Class
```

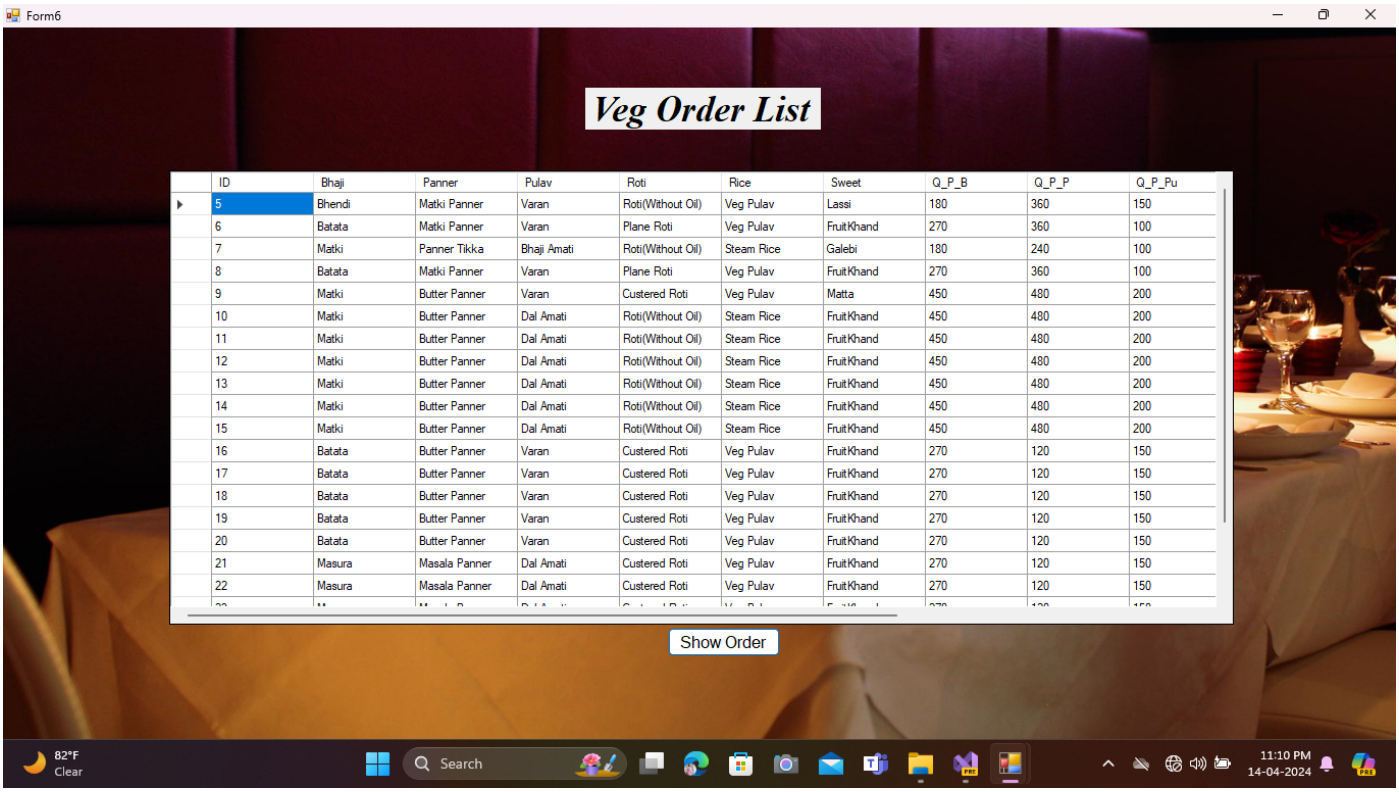
Output:



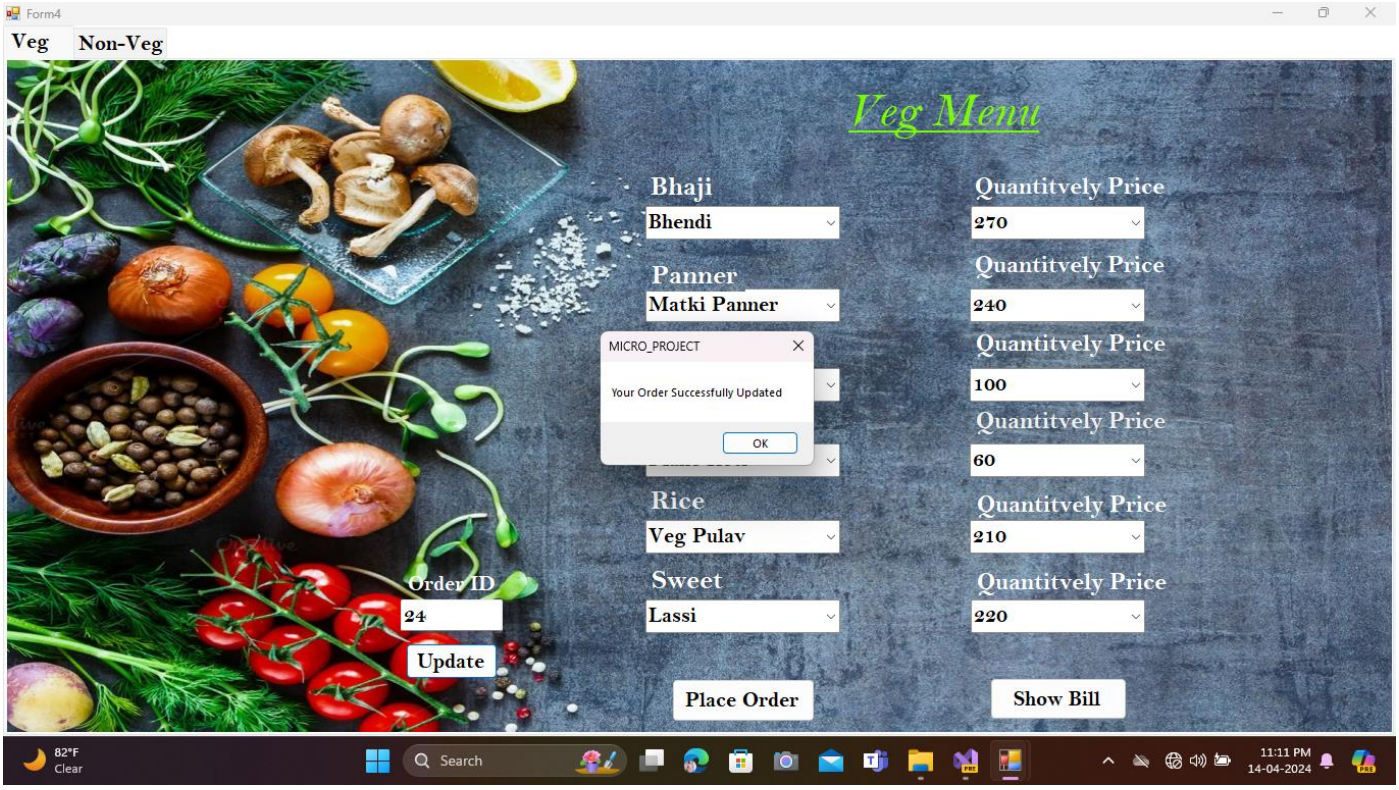

Form1
Username
123
Password
***
Login Successful!
OK
New Admin
82°F
Clear
Search
11:06 PM
14-04-2024

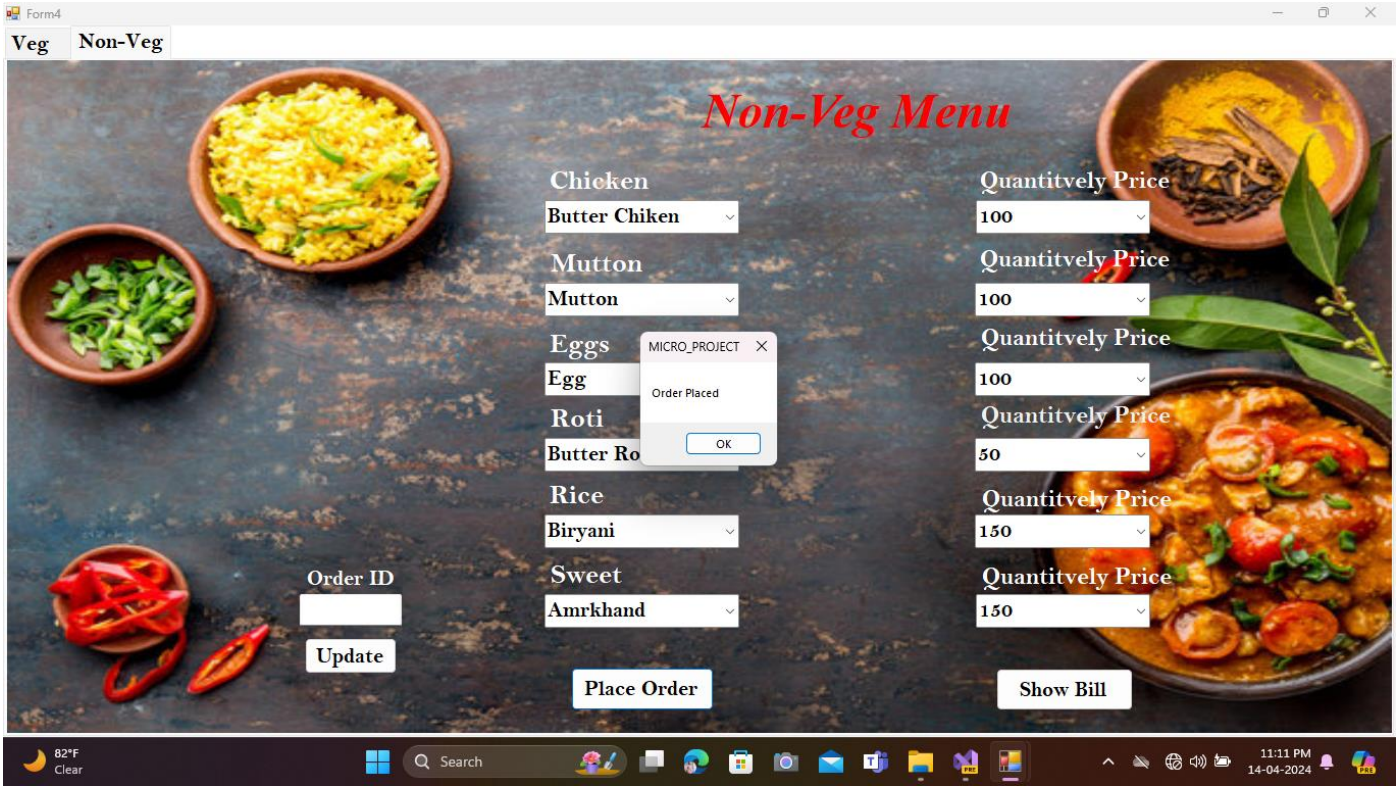

Form3
Enter Password
Confirm
82°F
Clear
Search
11:06 PM
14-04-2024



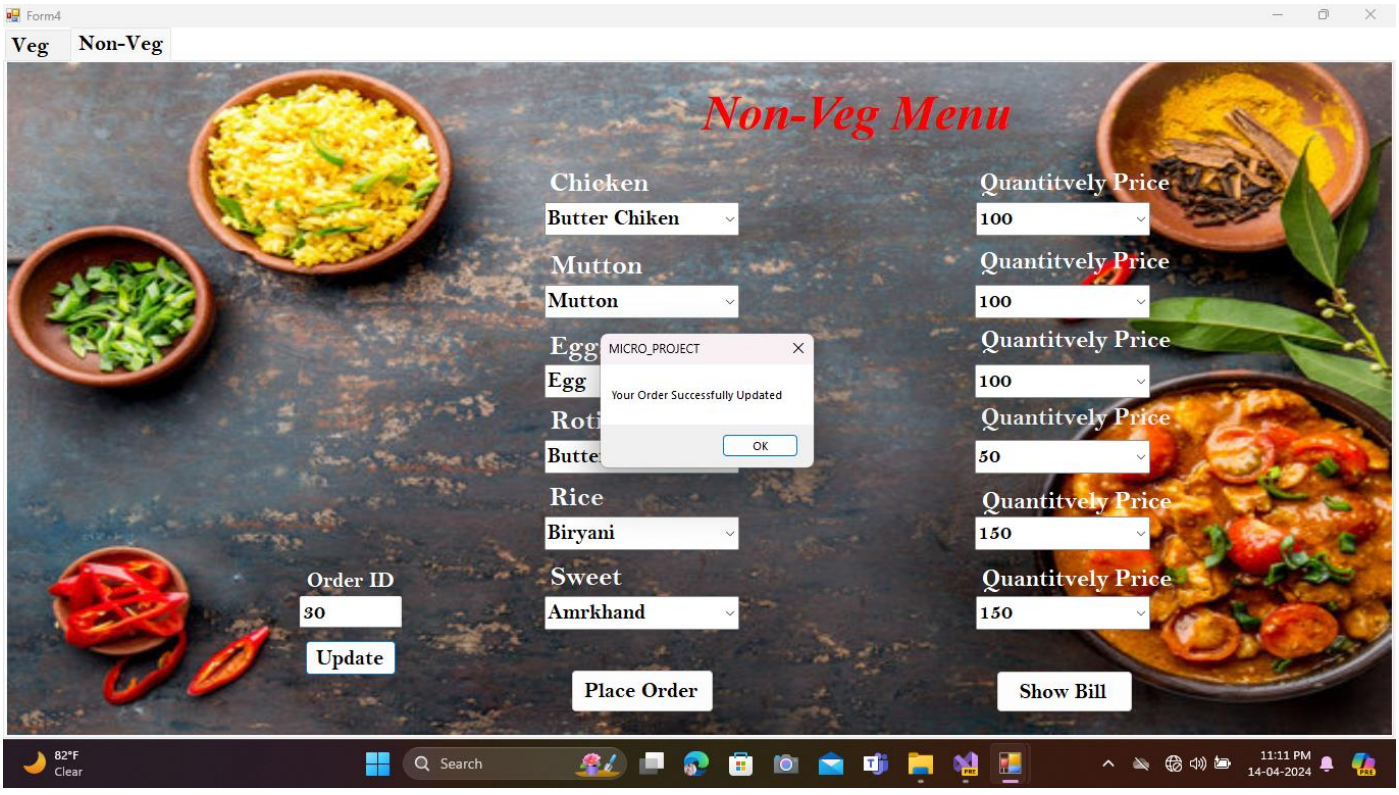


ID	Bhaji	Panner	Pulav	Roti	Rice	Sweet	Q_P_B	Q_P_P	Q_P_Pu
5	Bhendi	Matki Panner	Varan	Roti(Without Oil)	Veg Pulav	Lassi	180	360	150
6	Batata	Matki Panner	Varan	Plane Roti	Veg Pulav	FruitKhand	270	360	100
7	Matki	Panner Tikka	Bhaji Amati	Roti(Without Oil)	Steam Rice	Galebi	180	240	100
8	Batata	Matki Panner	Varan	Plane Roti	Veg Pulav	FruitKhand	270	360	100
9	Matki	Butter Panner	Varan	Custered Roti	Veg Pulav	Matta	450	480	200
10	Matki	Butter Panner	Dal Amati	Roti(Without Oil)	Steam Rice	FruitKhand	450	480	200
11	Matki	Butter Panner	Dal Amati	Roti(Without Oil)	Steam Rice	FruitKhand	450	480	200
12	Matki	Butter Panner	Dal Amati	Roti(Without Oil)	Steam Rice	FruitKhand	450	480	200
13	Matki	Butter Panner	Dal Amati	Roti(Without Oil)	Steam Rice	FruitKhand	450	480	200
14	Matki	Butter Panner	Dal Amati	Roti(Without Oil)	Steam Rice	FruitKhand	450	480	200
15	Matki	Butter Panner	Dal Amati	Roti(Without Oil)	Steam Rice	FruitKhand	450	480	200
16	Batata	Butter Panner	Varan	Custered Roti	Veg Pulav	FruitKhand	270	120	150
17	Batata	Butter Panner	Varan	Custered Roti	Veg Pulav	FruitKhand	270	120	150
18	Batata	Butter Panner	Varan	Custered Roti	Veg Pulav	FruitKhand	270	120	150
19	Batata	Butter Panner	Varan	Custered Roti	Veg Pulav	FruitKhand	270	120	150
20	Batata	Butter Panner	Varan	Custered Roti	Veg Pulav	FruitKhand	270	120	150
21	Masura	Masala Panner	Dal Amati	Custered Roti	Veg Pulav	FruitKhand	270	120	150
22	Masura	Masala Panner	Dal Amati	Custered Roti	Veg Pulav	FruitKhand	270	120	150


Form4
Veg
Non-Veg
Veg Menu
Bhaji
Bhendi
Quantitvely Price
270
Panner
Matki Panner
Quantitvely Price
240
MICRO_PROJECT
Your Order Successfully Updated
OK
Quantitvely Price
100
Quantitvely Price
60
Rice
Veg Pulav
Quantitvely Price
210
Sweet
Lassi
Quantitvely Price
220
Order ID
24
Update
Place Order
Show Bill
82°F
Clear
Search
11:11 PM
14-04-2024


Form4
Veg
Non-Veg
Non-Veg Menu
Chicken
Butter Chiken
Quantitvely Price
100
Mutton
Mutton
Quantitvely Price
100
Eggs
Egg
MICRO_PROJECT
Order Placed
OK
Quantitvely Price
100
Roti
Butter Ro
Quantitvely Price
50
Rice
Biryani
Quantitvely Price
150
Sweet
Amrkhand
Quantitvely Price
150
Order ID
Update
Place Order
Show Bill
82°F
Clear
Search
11:11 PM
14-04-2024

ID	Chiken	Roti	Rice	Mutton	Eggs	Sweet	Q_P_C	Q_P_R	Q_P_Ri
11									
12	Butter Chiken				Omelate		150		150
13	Butter Chiken	Butter Roti	Kabab Rice	Kabab Mutton	Fried Egg	Amrkhand	150	100	100
14							150	200	100
15	Fried Chiken	Butter Roti	Biryani	Kabab Mutton	Omelate	Amrkhand	150	100	150
16	Fried Chiken	Butter Roti	Kabab Rice	Kabab Mutton	Fried Egg	Dahi	50	150	200
17	Fried Chiken	Chapati	Kabab Rice	Kabab Mutton	Omelate	Amrkhand	100	50	100
18									
19	Fried Chiken	Butter Roti	Biryani	Kabab Mutton	Fried Egg	Amrkhand	50	100	150
20	Fried Chiken	Butter Roti	Biryani	Kabab Mutton	Egg	Amrkhand	50	150	50
21	Fried Chiken	Butter Roti	Kabab Rice	Kabab Mutton	Fried Egg	Dahi	50	150	200
22	Butter Chiken	Roti(Without Oil)	Biryani	Kabab Mutton	Omelate	Lassi	150	250	200
23	Fried Chiken	Chapati	Kabab Rice	Mutton	Egg	Dahi	50	50	50
24	Fried Chiken	Butter Roti	Biryani	Mutton	Omelate	Amrkhand	150	100	150
30	Butter Chiken	Roti(Without Oil)	Biryani	Kabab Mutton	Omelate	Lassi	150	250	200
31	Butter Chiken	Butter Roti	Biryani	Mutton	Egg	Amrkhand	100	100	100



3] Conclusion:

In conclusion, developing a hotel management system in VB.NET offers numerous benefits, including efficient data management, streamlined operations, and enhanced customer service. By leveraging VB.NET's robust features, such as object-oriented programming and database connectivity, hotels can effectively manage reservations, guest information, billing, and other essential tasks. Additionally, integrating user-friendly interfaces and customizable features can further improve the overall guest experience and optimize hotel performance.