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MY Phonebook

These codes are provided ONLY for reference / Help developers.
And also
SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUERMENT FOR THE
AWARD OF
BACHELOR OF COMPUTER APPLICATION (BCA)

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PROJECT WORK EVALUATION

1. PROJECT TITLE : My Phonebook

2. SOFTWARE BASE : MS-VB.NET, MS-Access

3. SUBMITTED FOR COURSE & YEAR: BCA (2010-2011)

INTRODUCTION

Today everyone have Mobile phones and mostly peoples have more than one Contact No. so it is not possible to remember all the contact no. and except contact no. there are many other contact details which is very helpful to contact any person if in case he/she not picking up their contact no. or unavailable on their contact no. like

- Landline No.
- E-mail Address
- Residence Address

So for all this I have created software which I named as "MY Phonebook". It will fulfill the basic requirement of managing all the contact details of person on a single location.

It will provide the facilities like:-

- Adding
- Deleting
- Searching (By name only)
- Updating

The software is created for single user with a complete user friendly environment with easy button tools.

SYNOPSIS

This program is about "My Phonebook" which is run on computer. This program facilitates the user for adding, deleting, searching and updating the contacts of a particular user. When program starts it ask for the Username and Password of the user and after providing right username & password then the user is authenticated for accessing and modifying the information which is available in program.

This program is capable for storing as many as contacts which user can input. It provides the advanced facility of adding, modifying, deleting and displaying the records.

SYSTEM DEVELOPMENT LIFE CYCLE

It is a sequence of events carried out by analysts, designers and users.

To develop and **Implement** a Program. These activities are carried

in different stages.

The phases are as follow:

1. **RECOGNITION OF NEED-WHAT IS THE PROBLEM:**

   One must know what the problem is before it can be solved. The basis for candidate system is recognition of need for improving an information system or procedure.

2. **FEASIBILITY STUDY (PRELIMINARY INVESTIGATION):**

   This phase starts as soon as someone recognizes a problem or initiates a request to modify the current computerized system or to computerize the current manual system when this request is made feasibility study begins. An important outcome of preliminary investigation is determining whether the system requested is feasible or not.

3. ANALYSIS (DETERMINATION OF REQUIREMENTS):

Analysis of requirements includes studying the existing system and collecting data (using the data fact-finding techniques) about it to find out what the requirements are.

4. DESIGN OF THE SYSTEM:

Once analysis is completed, the analyst has a firm understanding of what is to be done. The next step is how the problem can be solved. The design of a system uses the functional specification as a basis and produces the details that state how a system will meet requirements identified during system analysis.

5. DEVELOPMENT OF SOFTWARE:

"Design Specification" contains program specification as one of its topic. Programmers for the development of software use this. In this stage, the actual coding/ writing of the programs are done.

Programs are individually tested using some test/dummy data. This activity produces "tested programs".

To ensure that system serves it purpose it has to be thoroughly tested.
Testing can be done at two levels.

6. SYSTEM TESTING:

(a) PREPRODUCTION TESTING (IN PROCESS):

Internal test are performed on prepared components. This activity is carried out side by side along with production of components. This is a necessary activity as it avoids smaller problems getting converted into bigger one if they are deducted in early stages.

(b) POST PRODUCTION TESTING:

This testing is done after the production is over. This is divided in to two categories.

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(I) ALPHA TESTING (ONSITE TESTING):

This testing is normally performed at the site where same people involved in the production carry out the production. The focus of this testing is to test the interrelationship of various components and synchronization among them. This testing also focuses on efficiency related issues.

(ii) BETA TESTING:

The system is given to the users and the users of the previous the version of the system. These users work on this system to give their feedback about the system. This testing mainly focuses upon on the acceptance level of the users and any operating difficulties experienced by the users.

7. SYSTEM IMPLEMENTATION:

On this stage the system analyst put the new software, which has been tested into use. User personnel are trained and any files of data needed by the new system are constructed. In short, the new software is installed and then used.

8. SYSTEM MAINTENANCE:

Once installed the software is often used for many years. However, both the user and organization change. Therefore the software has to be maintained i.e. modification and change will be made to the software, files or procedures to meet the user's requirements.

FEASIBILITY REPORT

The Report is a formal document for management use, brief enough and sufficiently non-technical to be understandable, yet detailed enough to provide the basis for system design.

Feasibility report is known as culmination of the feasibility study. There is no standard format to prepare a feasibility report. The analyst decides the format, which is suitable for the particular user and system.

The feasibility report has been prepared including four key considerations.

1) Is there a new and better way of managing Library and how it will benefit the management?

2) What will be the cost of the alternative to the current system?
3) What will be the saving by applying the alternatives?
4) What should be applied?

Feasibility study is conducted to support the feasibility analysis on the following basis:

ECONOMIC FEASIBILITY:

Economic Analysis has been done for evaluating the effectiveness of the proposed system. Economic feasibility relates the advantages of applying the concept of automation and commercialization of the inventory module to the economic benefits that will be yielded after applying it. Through this economic analysis we tried to compare the costs of applying the automation of inventory module with added concept of commercialization to the economic returns or with the probable and expected increase in revenue that will be generated by applying it.

Project Specifications

HARDWARE REQUIREMENTS:

- Processor – Intel Dual Core 2140 @1.60 GHz
- 1 GB DDR2 RAM
- 10 GB Hard Disk
- SVGA Color Monitor
- CD Rom

SOFTWARE REQUIREMENTS:

- Windows XP, Windows 7
- VB.NET Studio 2005
- Microsoft Access – 2003 Databases

STORAGE MEDIA:

- CD
- HDD
- DVD
- REMOVABLE DISK

Data Base Terminology

Term	Definition
Database	A Collection of Data that is organized into a group, Because the data is related to a particular topic or purpose.
Table	The Basic structure that stores related data in rows and columns.
Field	A Category of Data which is within one column in a table.
Field Value	The data itself that is stored in a field.
Record	A row is a table that contains the data concerning one person or entity.

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USERS MANUAL

Introduction:-

The main idea of the programmer is to increase the awareness of working with computer systems and utilize computer resources for better result orientation.

The main target behind the creation of this package is to remove the pressure from the user to learn about computer & software. It helps to maintain an automatic communication between the computer and the user.

This Program "My Phonebook" facility the user with different records can add and search easily by using Button tools & Search options. There are some features also like: - Viewing Data in Datagrid, and Logout.

Our Project has following:-

- Login form
- "ADD" button for adding data in Database.
- "DELETE" button for deleting data in Database.
- "UPDATE" button for updating data in Database.
- "SEARCH" button for searching data in Database. (By name only).
- Datagrid View.
- Log Out.

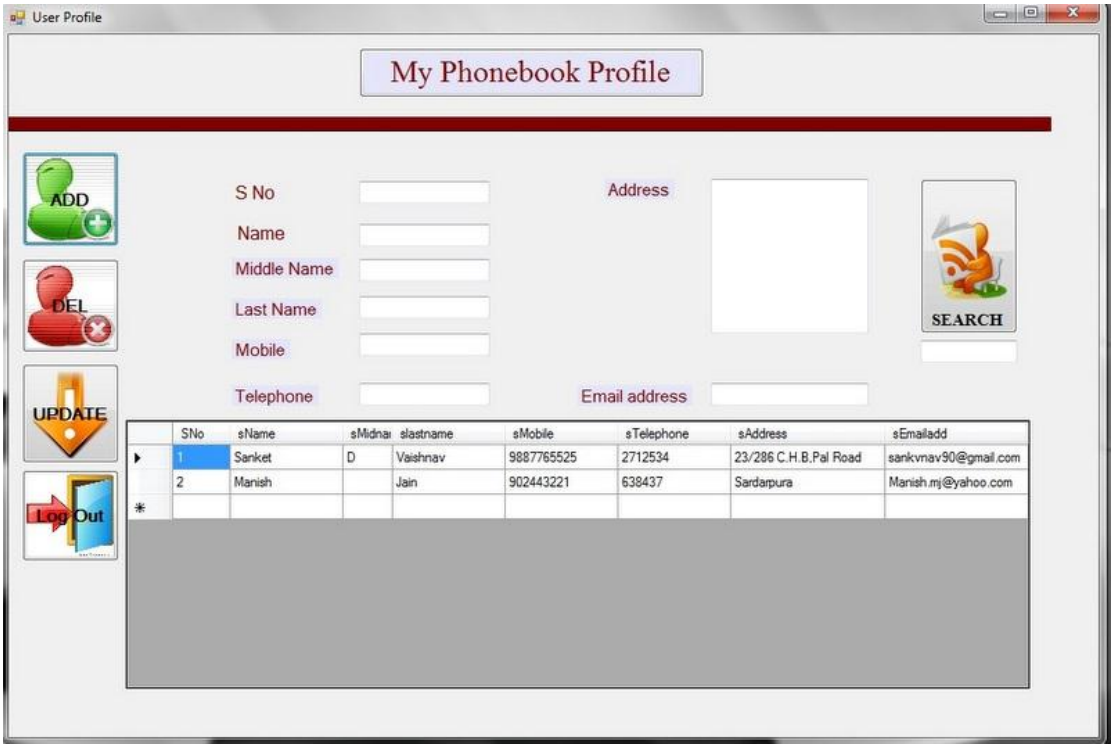
How to use this Program

When we start this "My Phonebook", it displays the User Login Form. We have to enter Username & Password. After providing right Username and Password, Now it will display the IDE of the software with all the tools used in that particular form.

- Enter the Username and Password in this Login Form.

- Now if you have entered the wrong "Username & Password" then click reset to reset the both fields.

- Otherwise click on Login Button to log in to the IDE of the program.



This is the IDE (Integrated Development Environment) of the program. It is designed in a very simple environment which easily completes all the requirements of the user for Adding & Managing the individuals contact details.

This page is a "USER PROFILE" page in which all the details of the users contact list is available. Anyone can view this page by only login-in with authenticate Username and Password.

Adding Data:

If we want to enter any new Contact in the program then you have to enter the details of the individual or organization in the fields available on the form. After filling up all the fields you have to just click on "ADD" button and then details will added in database and you can see the contacts in "DATAGRIDVIEW" also.

By doing same like this you add as many as contacts you want to add in "My Phonebook".

After clicking on add Button an msgbox is display with message "New Record added to the Database" with ok button. When we click "ok" button data will appear in Data Grid.

Delete Data:

If you want to delete the data from the database then write the Name of person or Sno. of contact in search box and click on "DELETE" button. It is very easy and after doing this the contact detail of that person with name will delete from the data grid.

Modify Data:

If you want to Modify the data from the database then click on name of person in data grid then all the details of that person will fill in fields on above data grid & then make change in the details and click on "UPDATE" button. It is very easy and after doing this the contact detail of that person will update in the data grid.

Structure of database & design

How to Create Database

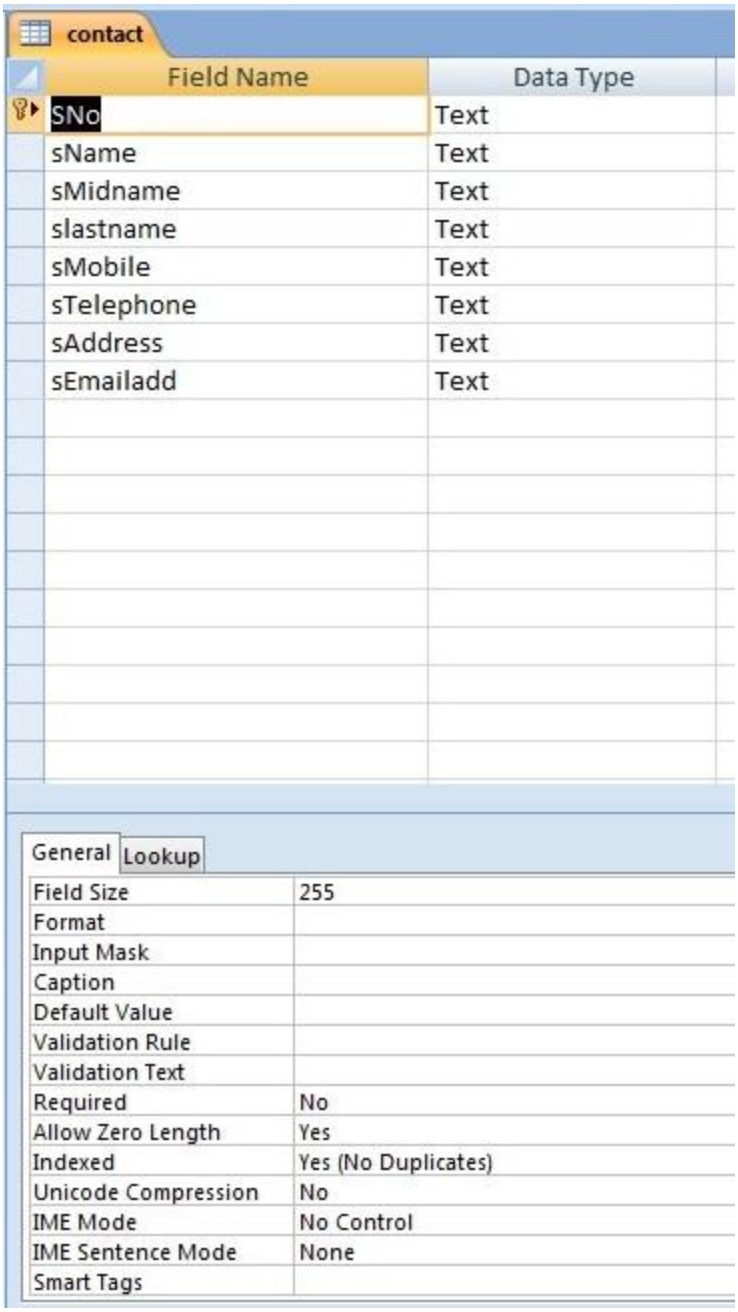
Steps for Opening Ms- Access:-

Start ➔ Programme ➔ Microsoft Office ➔ Microsoft Access

Create User Login

- Click on Create a New File
- Click on Blank Database.
- Enter the File name. "Contact"
- Click on Create Button.
- Click on Create Table in Design View.
- Enter the Fields Name and Select Data Type.
- Click on Save Button.
- Enter the Table Name. Click on Ok.
- An Msgbox will be displayed with "There is No Primary Key Defined" Message.
- Now Click on No Button.

Schema of Contact Table



contact

Field Name	Data Type
SNo	Text
sName	Text
sMidname	Text
slastname	Text
sMobile	Text
sTelephone	Text
sAddress	Text
sEmailadd	Text

General | Lookup

Field Size	255
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	
Validation Text	
Required	No
Allow Zero Length	Yes
Indexed	Yes (No Duplicates)
Unicode Compression	No
IME Mode	No Control
IME Sentence Mode	None
Smart Tags	

According to the above structures we can prepare the required tables that were actually used to save the records of software in the access database.

FORM DESIGN AND CODING

Form Designing and coding is the important step in building the software, while using the Visual Basic.NET along with Access Database (As Back Hand Support for database) we have to create the various types of form and establish the database connectivity so that the application can easily navigate the database.

For establishing the database there is f Connectivity is provided in the Visual Basic.NET
OLEDB

Currently we are using OLEDB type of data connectivity in this software.
In Visual Basic.NET there is small amount of controls are provided for designing the form, so for using the extra controls, we have to add them in the current applications, process for adding these controls.

In the Menu Bar of VB.net Click on
PROJECT – COMPONENTS - Check the required components and click ok.

1. Microsoft ADO Data Control 6.0 (OLEDB)

Here is the List of Form & Module that we create for necessary use in this software.

1. Form 2 (Login)
2. Form 3 (IDE)
3. Myphonebook.mdb

Coding For Form 2

```
Public Class form2

    Dim x As String
    Dim y As String
    Dim z As Integer

    Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox1.TextChanged
        x = TextBox1.Text
    End Sub
```

```
    Private Sub TextBox2_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox2.TextChanged
        y = TextBox2.Text
    End Sub

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles button1.Click
        z = z + 1
        If x = "admin" And y = "admin" Then
            Me.Hide()
            Form3.Show()
        ElseIf z < 4 Then
            TextBox1.Text = ""
            TextBox2.Text = ""
            TextBox1.Focus()
            MsgBox("Your username or password was incorrect")
        ElseIf z = 4 Then
            MsgBox("Now you cannot login that time you have to restart this")
        ElseIf z > 4 Then
            End
        End If
    End Sub

    Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button6.Click
        TextBox1.Clear()
        TextBox2.Clear()
    End Sub

    Private Sub form2_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load

    End Sub
End Class
```

Form2: Output.

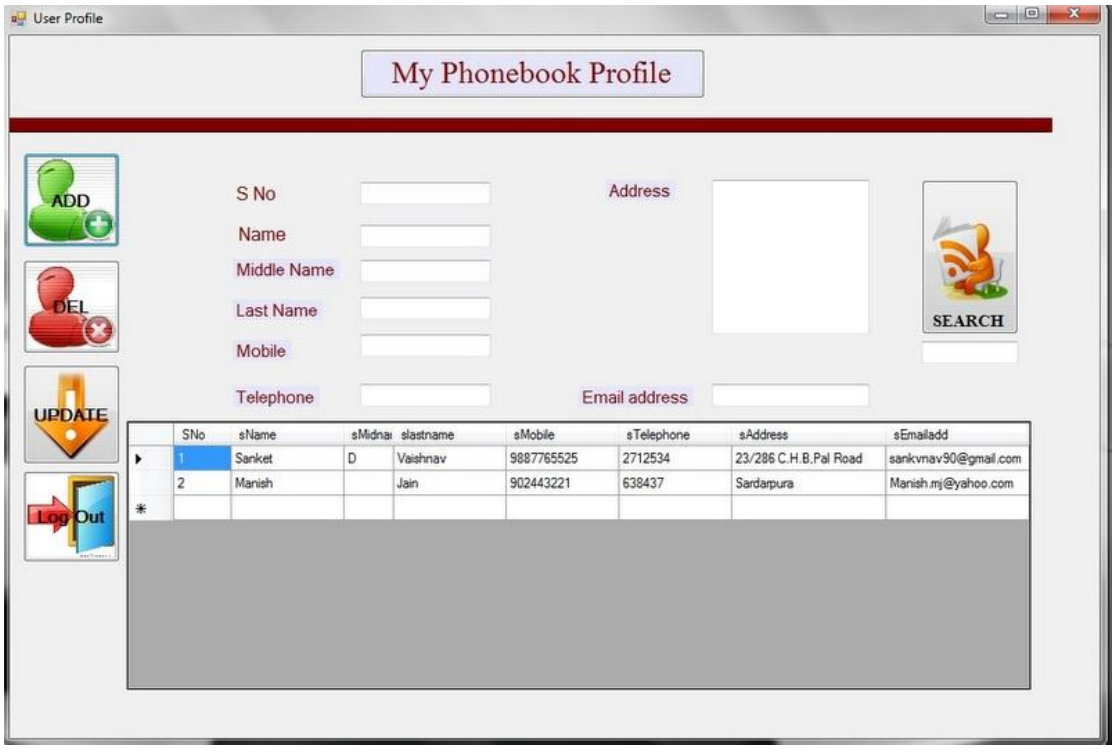
Coding For From3

```
Public Class Form3
    Dim connectionstring As String = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=h:\myphonebook.mdb"
    Dim Con As New OleDb.OleDbConnection(connectionstring)
    Private Sub Button5_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button5.Click
        Me.Hide()
        form2.Show()
        form2.TextBox1.Clear()
        form2.TextBox2.Clear()
    End Sub


    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
        Dim sql As String = "select * from contact"
        Dim connectionstring As String = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=h:\myphonebook.mdb"
```

```
        Dim Con As New OleDb.OleDbConnection(connectionstring)
        Dim contacttableadapter  As New OleDb.OleDbDataAdapter(sql,  Con)
        Dim myphonebookdataset1  As New DataSet
        Dim cb As New OleDb.OleDbCommandBuilder(contacttableadapter)
        Dim dsNewRow As DataRow
        contacttableadapter.Fill(myphonebookdataset1,  "contact")
        dsNewRow = myphonebookdataset1.Tables("contact").NewRow()
        dsNewRow.Item("En")  = TextBox1.Text
        dsNewRow.Item("sName")  = nam.Text
        dsNewRow.Item("sMidname")  = midnam.Text
        dsNewRow.Item("sLastname")  = lnam.Text
        dsNewRow.Item("smobile")  = mob.Text
        dsNewRow.Item("sTelephone")  = tel.Text
        dsNewRow.Item("saddress")  = add.Text
        dsNewRow.Item("semailadd")  = eadd.Text
        myphonebookdataset1.Tables("contact").Rows.Add(dsNewRow)
        contacttableadapter.Update(myphonebookdataset1,  "contact")
        MsgBox("New  Record added to the Database")
        DataGridView2.DataSource  = myphonebookdataset1
        DataGridView2.DataMember  = "contact"

        TextBox1.Text  = ""
        nam.Text  = ""
        midnam.Text  = ""
        lnam.Text  = ""
        mob.Text  = ""
        tel.Text  = ""
        add.Text = ""
        eadd.Text  = ""

    End Sub

    Private Sub Button4_Click(ByVal  sender As System.Object,  ByVal e As
System.EventArgs)  Handles  Button4.Click
        Dim sql As String  = " delete from contact where En='"  & TextBox1.Text  & "'"
        Dim connectionstring  As String  = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=h:\myphonebook.mdb"
        Dim Con As New OleDb.OleDbConnection(connectionstring)
        Dim contacttableadapter  As New OleDb.OleDbDataAdapter(sql,  Con)
        Dim myphonebookdataset1  As New DataSet
        Dim cb As New OleDb.OleDbCommandBuilder(contacttableadapter)
        contacttableadapter.Fill(myphonebookdataset1,  "contact")
        MsgBox("data  deleted")
         view()

    End Sub

    Private Sub Form3_Load(ByVal  sender As System.Object,  ByVal e As
System.EventArgs)  Handles  MyBase.Load
        'Dim sql As String  = "select  * from contact"
```

```
        'Dim connectionstring As String = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=h:\myphonebook.mdb"
        'Dim Con As New OleDb.OleDbConnection(connectionstring)
        'Dim contacttableadapter As New OleDb.OleDbDataAdapter(sql, Con)
        'Dim myphonebookdataset1 As New DataSet
        'Dim cb As New OleDb.OleDbCommandBuilder(contacttableadapter)
        'contacttableadapter.Fill(myphonebookdataset1, "contact")
        'DataGridView2.DataSource = myphonebookdataset1
        'DataGridView2.DataMember = "contact"

        'TextBox1.Focus()
        view()

    End Sub


    Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click
        Dim sql As String = "update contact set sName ='" & nam.Text & "',sMidname
='" & midnam.Text & "',sLastname ='" & lnam.Text & "',smobile ='" & mob.Text &
"',sTelephone ='" & tel.Text & "',saddress ='" & add.Text & "',semailadd ='" &
eadd.Text & "' where En = '" & TextBox1.Text & "'"
        Dim contacttableadapter As New OleDb.OleDbDataAdapter(sql, Con)
        Dim myphonebookdataset1 As New DataSet
        contacttableadapter.Fill(myphonebookdataset1, "contact")
        MsgBox("data updated")
        view()

    End Sub
    Private Sub view()
        Dim sql As String = "select * from contact"
        Dim connectionstring As String = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=h:\myphonebook.mdb"
        Dim Con As New OleDb.OleDbConnection(connectionstring)
        Dim contacttableadapter As New OleDb.OleDbDataAdapter(sql, Con)
        Dim myphonebookdataset1 As New DataSet
        Dim cb As New OleDb.OleDbCommandBuilder(contacttableadapter)
        contacttableadapter.Fill(myphonebookdataset1, "contact")
        DataGridView2.DataSource = myphonebookdataset1
        DataGridView2.DataMember = "contact"


    End Sub


    Private Sub TextBox2_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox2.TextChanged
        Dim sql As String = "select * from contact where sName like '" &
TextBox2.Text & "%' "
```

```
        Dim connectionstring As String = "Provider=Microsoft.Jet.OLEDB.4.0;Data
Source=h:\myphonebook.mdb"
        Dim Con As New OleDb.OleDbConnection(connectionstring)
        Dim contacttableadapter As New OleDb.OleDbDataAdapter(sql, Con)
        Dim myphonebookdataset1 As New DataSet
        Dim cb As New OleDb.OleDbCommandBuilder(contacttableadapter)
        contacttableadapter.Fill(myphonebookdataset1, "contact")
        DataGridView2.DataSource = myphonebookdataset1
        DataGridView2.DataMember = "contact"

    End Sub


    Private Sub DataGridView2_CellMouseClick(ByVal sender As Object, ByVal e As
System.Windows.Forms.DataGridViewCellMouseEventArgs) Handles
DataGridView2.CellMouseClick
        On Error GoTo note
        TextBox1.Text = DataGridView2.CurrentRow.Cells(0).Value
        nam.Text = DataGridView2.CurrentRow.Cells(1).Value
        midnam.Text = DataGridView2.CurrentRow.Cells(2).Value
        lnam.Text = DataGridView2.CurrentRow.Cells(3).Value
        tel.Text = DataGridView2.CurrentRow.Cells(4).Value
        add.Text = DataGridView2.CurrentRow.Cells(5).Value
        eadd.Text = DataGridView2.CurrentRow.Cells(6).Value
note:
    End Sub
End Class
```



FUTURE ENHANCEMENTS

There is always room for improvement. Hence, the project can be improved further to accommodate the user requirements, if any, rose after the development is complete by me.

There are many things for enhancement in this program for future because it's just a Minor Project.

Some of the Future enhancements that we actually like to take in progress and build a new version of "My Phonebook"

1. Building the classes and modules so that the functions code should be eliminated.
2. DATABASE records shall be encrypted so that it was not read by user while accessing the database directly into the software.
3. Security given to different – different user level, administrator given all rights to use the whole software and data entry operator has given a limit for working.
4. Leave entry form data items are entered by user manually, will enhance the same so that the days shall be calculated automatically.
5. Multiple Users can login at a time.
6. Auto generates form for every user when they create their account.
7. Currently we are using the database at single pc, and we cannot access the database from network, we enhance this feature so that database can be accessed by networking systems.
8. Can be use over network.
9. "My phonebook" program not contain details of the user, will enhance this feature.
10. Many more new form & module would be added in the next version of this program.

CONCLUSION

The System that is being developed is keeping in view the entire requirements that are being specified. The system fulfills all the requirements for single user to Add & make modification in his Phonebook and it will definitely enhance the working efficiency of the existing system. The various functionalities that are provided by the system will definitely help the user of the existing system to enhance the management of the system and keeping the contact details of many/every person whom he knows with more accurately and more efficiently.

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Thanks