**SOURCE CODE**

MyMod

Imports System.Data.OracleClient

Imports System.Security.Cryptography

Imports DevComponents.DotNetBar

Module mymod

Public mycommand As New System.Data.OracleClient.OracleCommand

Public myadapter As New System.Data.OracleClient.OracleDataAdapter

Public mydata As New DataTable

Public DR As System.Data.OracleClient.OracleDataReader

Public SQL As String

Public conn As New System.Data.OracleClient.OracleConnection

Public cn As New Connection

'Table User

'--------------------------------

Public user\_baru As Boolean

Public oUser As New User

'--------------------------------

'Table Buku

'--------------------------------

Public Buku\_baru As Boolean

Public oBuku As New NamaBuku

'--------------------------------

'Table Anggota

'--------------------------------

Public Anggota\_baru As Boolean

Public oAnggota As New Anggota

'--------------------------------

'Table Petugas

'--------------------------------

Public Petugas\_baru As Boolean

Public oPetugas As New Petugas

'-------------------------------

'Table Peminjaman

'--------------------------------

Public Pinjam\_baru As Boolean

Public oPinjam As New Peminjaman

'-------------------------------

'Table Detailpeminjaman

'--------------------------------

Public PEMINJAMANDETAIL\_baru As Boolean

Public oPinDet As New Peminjaman

'-------------------------------

'Table Pengembalian

'--------------------------------

Public PENGEMBALIANBUKU\_baru As Boolean

Public oKembali As New Pengembalian

'-------------------------------

'Table Detailpengembalian

'--------------------------------

Public PENGEMBALIANDETAIL\_baru As Boolean

Public oPdetail As New Detailpengembalian

'-------------------------------

Public Jbukku As Double

Public kodePet As Double

Public R As Random = New Random

Public TotalTab As Integer = 0

Public x As Integer

Public login\_valid As Boolean

Public Sub DBConnect()

cn.DataSource = "xe"

cn.UserID = "Adlimuhamad"

cn.Password = "123"

cn.Connect()

End Sub

Public Sub DBDisconnect()

cn.Disconnect()

End Sub

Public Function getMD5Hash(ByVal strToHash As String) As String

Dim md5Obj As New System.Security.Cryptography.MD5CryptoServiceProvider()

Dim bytesToHash() As Byte = System.Text.Encoding.ASCII.GetBytes(strToHash)

bytesToHash = md5Obj.ComputeHash(bytesToHash)

Dim strResult As String = ""

Dim b As Byte

For Each b In bytesToHash

strResult += b.ToString("x2")

Next

Return strResult

End Function

Public cldAnggota As New frmanggota()

Public cldPetugas As New frmpetugas()

Public cldNamabuku As New frmnamabuku()

Public cldPeminjaman As New frmpeminjaman()

Public cldPengembalian As New frmpengembalian()

Public menu\_anggota As Boolean

Public menu\_petugas As Boolean

Public menu\_namabuku As Boolean

Public menu\_peminjaman As Boolean

Public menu\_pengembalian As Boolean

Public Function getTabIndex(ByVal mytab As TabControl, ByVal sCari As String)

Dim i As Integer

For i = 0 To TotalTab - 1

If (mytab.Tabs(i).Text = sCari) Then

Exit For

End If

Next

getTabIndex = i

End Function

Public Sub BikinMenu(ByVal Child As Form, ByVal mytab As TabControl, ByVal sTitle As String)

Dim newTab As DevComponents.DotNetBar.TabItem = mytab.CreateTab(sTitle)

Dim panel As DevComponents.DotNetBar.TabControlPanel = DirectCast(newTab.AttachedControl, Panel)

Child.TopLevel = False

Child.FormBorderStyle = Windows.Forms.FormBorderStyle.None

Child.Dock = DockStyle.Fill

Child.Show()

panel.Controls.Add(Child)

End Sub

End Module

**Connection**

Public Class Connection

Private \_datasource As String = "xe"

Private \_uname As String

Private \_pwd As String

Private \_datareader As System.Data.OracleClient.OracleDataReader

Private \_found As Boolean = False

Private \_connected As Boolean = False

''' <summary>

''' Penampung data hasil pencarian fungsi searchone

''' </summary>

Public Property DataReader() As Object

Get

Return \_datareader

End Get

Set(ByVal value As Object)

\_datareader = value

End Set

End Property

''' <summary>

''' Nama Data Source SQL Server Express, default = NamaPC\SQLEXPRESS

''' </summary>

Public Property DataSource() As String

Get

Return \_datasource

End Get

Set(ByVal value As String)

\_datasource = value

End Set

End Property

''' <summary>

''' Username Oracle Express

''' </summary>

Public Property UserID() As String

Get

Return \_uname

End Get

Set(ByVal value As String)

\_uname = value

End Set

End Property

''' <summary>

''' Password Oracle Express sesuai dengan user id nya

''' </summary>

Public Property Password() As String

Get

Return \_pwd

End Get

Set(ByVal value As String)

\_pwd = value

End Set

End Property

''' <summary>

''' Hasil pencarian data (True = Ditemukan, False=Tdk ditemukan)

''' </summary>

Public Property RecordFound() As Boolean

Get

Return \_found

End Get

Set(ByVal value As Boolean)

\_found = value

End Set

End Property

''' <summary>

''' Proses menyambungkan koneksi (SQL Server Express with Integrated Security = True without Username or Password)

''' </summary>

Public Sub Connect()

Try

conn.Close()

conn.ConnectionString = "Data Source=" & \_datasource & ";User Id=" & \_uname & ";Password=" & \_pwd & ";"

conn.Open()

Catch ex As Exception

MessageBox.Show(ex.ToString())

Finally

If (conn.State = True) Then

\_connected = True

Else

\_connected = False

End If

End Try

End Sub

''' <summary>

''' Proses memutuskan koneksi

''' </summary>

Public Sub Disconnect()

If (conn.State = True) Then

conn.Close()

conn.Dispose()

\_connected = False

End If

End Sub

End Class

**Form Login**

Public Class Login

Private Sub btnSubmit\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles BtnSubmit.Click

login\_valid = oUser.Login(Txtusername.Text, Txtpassword.Text)

If (login\_valid = True) Then

MessageBox.Show("Selamat Datang Di Perpustakaan " & Txtusername.Text)

Dashboard.Show()

Me.Hide()

Else

MessageBox.Show("Login Not Valid")

End If

End Sub

Private Sub btnCancel\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles BtnCancel.Click

Me.Close()

End Sub

Private Sub ValidateUserLogin()

oUser.Login(txtUsername.Text, txtPassword.Text)

If (login\_valid = True) Then

End If

End Sub

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

End Sub

End Class

**Class user**

Public Class User

Dim strsql As String

Dim info As String

Private \_iduser As Integer

Private \_username As String

Private \_nama\_lengkap As String

Private \_passwd As String

Public InsertState As Boolean = False

Public UpdateState As Boolean = False

Public DeleteState As Boolean = False

Public Property username()

Get

Return \_username

End Get

Set(ByVal value)

\_username = value

End Set

End Property

Public Property nama\_lengkap()

Get

Return \_nama\_lengkap

End Get

Set(ByVal value)

\_nama\_lengkap = value

End Set

End Property

Public Property passwd()

Get

Return \_passwd

End Get

Set(ByVal value)

\_passwd = value

End Set

End Property

Public Sub Simpan()

Dim info As String

DBConnect()

If (user\_baru = True) Then

strsql = "Insert into user(username,nama\_lengkap,passwd) values ('" & \_username & "','" & \_nama\_lengkap & "','" & \_passwd & "')"

info = "INSERT"

Else

strsql = "update user set username='" & \_username & "', nama\_lengkap='" & \_nama\_lengkap & "', passwd='" & \_passwd & "' where username='" & \_username & "'"

info = "UPDATE"

End If

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

Catch ex As Exception

If (info = "INSERT") Then

InsertState = False

ElseIf (info = "UPDATE") Then

UpdateState = False

Else

End If

Finally

If (info = "INSERT") Then

InsertState = True

ElseIf (info = "UPDATE") Then

UpdateState = True

Else

End If

End Try

DBDisconnect()

End Sub

Public Sub Cariuser(ByVal susername As String)

DBConnect()

strsql = "SELECT \* FROM user WHERE username='" & susername & "'"

myCommand.Connection = conn

myCommand.CommandText = strsql

DR = myCommand.ExecuteReader

If (DR.HasRows = True) Then

user\_baru = False

DR.Read()

username = Convert.ToString((DR("username")))

nama\_lengkap = Convert.ToString((DR("nama\_lengkap")))

passwd = Convert.ToString((DR("passwd")))

Else

MessageBox.Show("Data Tidak Ditemukan.")

user\_baru = True

End If

DBDisconnect()

End Sub

Public Sub Hapus(ByVal susername As String)

Dim info As String

DBConnect()

strsql = "DELETE FROM user WHERE username='" & susername & "'"

info = "DELETE"

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

DeleteState = True

Catch ex As Exception

MessageBox.Show(ex.ToString)

End Try

DBDisconnect()

End Sub

Public Sub getAllData(ByVal dg As DataGridView)

Try

DBConnect()

strsql = "SELECT \* FROM user"

myCommand.Connection = conn

myCommand.CommandText = strsql

myData.Clear()

myAdapter.SelectCommand = myCommand

myAdapter.Fill(myData)

With dg

.DataSource = myData

.AllowUserToAddRows = False

.AllowUserToDeleteRows = False

.ReadOnly = True

End With

Catch ex As Exception

MessageBox.Show(ex.ToString)

Finally

DBDisconnect()

End Try

End Sub

Public Function Login(ByVal username As String, ByVal pwd As String) As Boolean

Dim pwd\_en As String

pwd\_en = getMD5Hash(pwd)

DBConnect()

strsql = "SELECT \* FROM users WHERE username='" & username & "' and passwd ='" & pwd\_en & "'"

mycommand.Connection = conn

mycommand.CommandText = strsql

DR = mycommand.ExecuteReader

If (DR.HasRows = True) Then

login\_valid = True

Else

login\_valid = False

End If

DBDisconnect()

Return login\_valid

End Function

End Class

**Form Anggota**

Public Class frmanggota

Private Sub TampilAnggota()

txtidanggota.Text = oAnggota.idanggota

txtnamaanggota.Text = oAnggota.nama\_anggota

txtalamat.Text = oAnggota.alamat\_anggota

txtnomortelepon.Text = oAnggota.nomor\_telepon

oAnggota.CariNAMA\_ANGGOTA(txtidanggota.Text)

If (Anggota\_baru = False) Then

TampilAnggota()

GetData()

End If

End Sub

Private Sub reload()

GetData()

End Sub

Private Sub SimpanAnggota()

Anggota\_baru = True

oAnggota.idanggota = txtidanggota.Text

oAnggota.nama\_anggota = txtnamaanggota.Text

oAnggota.alamat\_anggota = txtalamat.Text

oAnggota.nomor\_telepon = txtnomortelepon.Text

oAnggota.Simpan()

End Sub

Private Sub ClearEntry()

txtidanggota.Text = ""

txtnamaanggota.Text = ""

txtalamat.Text = ""

txtnomortelepon.Text = ""

DataGridView1.DataSource = ""

reload()

End Sub

Private Sub GetData()

oAnggota.getAllData(DataGridView1)

End Sub

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)

reload()

End Sub

Private Sub txtidanggota\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtidanggota.KeyDown

If (e.KeyCode = Keys.Enter And txtidanggota.Text <> "") Then

oAnggota.CariNAMA\_ANGGOTA(txtidanggota.Text)

If (Anggota\_baru = True) Then

txtidanggota.Focus()

Else

TampilAnggota()

End If

End If

End Sub

Private Sub txtnamaanggota\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtnamaanggota.KeyDown

If (e.KeyCode = Keys.Enter And txtnamaanggota.Text <> "") Then

oAnggota.CariNAMA\_ANGGOTA(txtnamaanggota.Text)

If (Anggota\_baru = False) Then

TampilAnggota()

Else

MessageBox.Show("Data tidak ditemukan")

End If

End If

End Sub

Private Sub btnrefresh\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRefresh.Click

GetData()

End Sub

Private Sub btnSave\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSave.Click

SimpanAnggota()

End Sub

Private Sub btnClear\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click

ClearEntry()

End Sub

End Class

**Class Anggota**

Public Class Anggota

Dim strsql As String

Dim info As String

Private \_idanggota As System.String

Private \_nama\_anggota As System.String

Private \_alamat\_anggota As System.String

Private \_nomor\_telepon As System.String

Public InsertState As Boolean = False

Public UpdateState As Boolean = False

Public DeleteState As Boolean = False

Public Property idanggota()

Get

Return \_idanggota

End Get

Set(ByVal value)

\_idanggota = value

End Set

End Property

Public Property nama\_anggota()

Get

Return \_nama\_anggota

End Get

Set(ByVal value)

\_nama\_anggota = value

End Set

End Property

Public Property alamat\_anggota()

Get

Return \_alamat\_anggota

End Get

Set(ByVal value)

\_alamat\_anggota = value

End Set

End Property

Public Property nomor\_telepon()

Get

Return \_nomor\_telepon

End Get

Set(ByVal value)

\_nomor\_telepon = value

End Set

End Property

Public Sub Simpan()

Dim info As String

DBConnect()

If (Anggota\_baru = True) Then

strsql = "Insert into NAMA\_ANGGOTA(idanggota,nama\_anggota,alamat\_anggota,nomor\_telepon) values ('" & \_idanggota & "','" & \_nama\_anggota & "','" & \_alamat\_anggota & "','" & \_nomor\_telepon & "')"

info = "INSERT"

Else

strsql = "update NAMA\_ANGGOTA set idanggota='" & \_idanggota & "', nama\_anggota='" & \_nama\_anggota & "', alamat\_anggota='" & \_alamat\_anggota & "', nomor\_telepon='" & \_nomor\_telepon & "' where NAMA\_ANGGOTA='" & \_nama\_anggota & "'"

info = "UPDATE"

End If

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

Catch ex As Exception

If (info = "INSERT") Then

InsertState = False

ElseIf (info = "UPDATE") Then

UpdateState = False

Else

End If

Finally

If (info = "INSERT") Then

InsertState = True

ElseIf (info = "UPDATE") Then

UpdateState = True

Else

End If

End Try

DBDisconnect()

End Sub

Public Sub CariNAMA\_ANGGOTA(ByVal sIDANGGOTA As String)

DBConnect()

strsql = "SELECT \* FROM NAMA\_ANGGOTA WHERE IDANGGOTA='" & sIDANGGOTA & "'"

myCommand.Connection = conn

myCommand.CommandText = strsql

DR = myCommand.ExecuteReader

If (DR.HasRows = True) Then

Anggota\_baru = False

DR.Read()

idanggota = Convert.ToString((DR("idanggota")))

nama\_anggota = Convert.ToString((DR("nama\_anggota")))

alamat\_anggota = Convert.ToString((DR("alamat\_anggota")))

nomor\_telepon = Convert.ToString((DR("nomor\_telepon")))

Else

MessageBox.Show("Data Tidak Ditemukan.")

Anggota\_baru = True

End If

DBDisconnect()

End Sub

Public Sub Hapus(ByVal sIDANGGOTA As String)

Dim info As String

DBConnect()

strsql = "DELETE FROM NAMA\_ANGGOTA WHERE IDANGGOTA='" & sIDANGGOTA & "'"

info = "DELETE"

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

DeleteState = True

Catch ex As Exception

MessageBox.Show(ex.ToString)

End Try

DBDisconnect()

End Sub

Public Sub getAllData(ByVal dg As DataGridView)

Try

DBConnect()

strsql = "SELECT \* FROM NAMA\_ANGGOTA"

myCommand.Connection = conn

myCommand.CommandText = strsql

myData.Clear()

myAdapter.SelectCommand = myCommand

myAdapter.Fill(myData)

With dg

.DataSource = myData

.AllowUserToAddRows = False

.AllowUserToDeleteRows = False

.ReadOnly = True

End With

Catch ex As Exception

MessageBox.Show(ex.ToString)

Finally

DBDisconnect()

End Try

End Sub

End Class

**Form Petugas**

Public Class frmpetugas

Private Sub TampilPetugas()

txtkodepetugas.Text = oPetugas.kode\_petugas

txtnamapetugas.Text = oPetugas.nama\_petugas

txtpassword.Text = oPetugas.password

txtstatus.Text = oPetugas.status

oPetugas.CariNAMA\_PETUGAS(txtkodepetugas.Text)

If (Petugas\_baru = False) Then

TampilPetugas()

GetData()

End If

End Sub

Private Sub reload()

GetData()

End Sub

Private Sub SimpanPetugas()

Petugas\_baru = True

oPetugas.kode\_petugas = txtkodepetugas.Text

oPetugas.nama\_petugas = txtnamapetugas.Text

oPetugas.password = txtpassword.Text

oPetugas.status = txtstatus.Text

oPetugas.Simpan()

End Sub

Private Sub ClearEntry()

txtkodepetugas.Text = ""

txtnamapetugas.Text = ""

txtpassword.Text = ""

txtstatus.Text = ""

DataGridView1.DataSource = ""

reload()

End Sub

Private Sub GetData()

oPetugas.getAllData(DataGridView1)

End Sub

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)

reload()

End Sub

Private Sub txtkodepetugas\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtkodepetugas.KeyDown

If (e.KeyCode = Keys.Enter And txtkodepetugas.Text <> "") Then

oPetugas.CariNAMA\_PETUGAS(txtkodepetugas.Text)

If (Petugas\_baru = True) Then

txtkodepetugas.Focus()

Else

TampilPetugas()

End If

End If

End Sub

Private Sub txtnamapetugas\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtnamapetugas.KeyDown

If (e.KeyCode = Keys.Enter And txtnamapetugas.Text <> "") Then

oPetugas.CariNAMA\_PETUGAS(txtnamapetugas.Text)

If (Petugas\_baru = False) Then

TampilPetugas()

Else

MessageBox.Show("Data tidak ditemukan")

End If

End If

End Sub

Private Sub btnrefresh\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRefresh.Click

GetData()

End Sub

Private Sub btnSave\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSave.Click

SimpanPetugas()

End Sub

Private Sub btnClear\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click

ClearEntry()

End Sub

End Class

**Class Petugas**

Public Class Petugas

Dim strsql As String

Dim info As String

Private \_kode\_petugas As System.String

Private \_nama\_petugas As System.String

Private \_password As System.String

Private \_status As System.String

Public InsertState As Boolean = False

Public UpdateState As Boolean = False

Public DeleteState As Boolean = False

Public Property kode\_petugas()

Get

Return \_kode\_petugas

End Get

Set(ByVal value)

\_kode\_petugas = value

End Set

End Property

Public Property nama\_petugas()

Get

Return \_nama\_petugas

End Get

Set(ByVal value)

\_nama\_petugas = value

End Set

End Property

Public Property password()

Get

Return \_password

End Get

Set(ByVal value)

\_password = value

End Set

End Property

Public Property status()

Get

Return \_status

End Get

Set(ByVal value)

\_status = value

End Set

End Property

Public Sub Simpan()

Dim info As String

DBConnect()

If (Petugas\_baru = True) Then

strsql = "Insert into NAMA\_PETUGAS(kode\_petugas,nama\_petugas,password,status) values ('" & \_kode\_petugas & "','" & \_nama\_petugas & "','" & \_password & "','" & \_status & "')"

info = "INSERT"

Else

strsql = "update NAMA\_PETUGAS set kode\_petugas='" & \_kode\_petugas & "', nama\_petugas='" & \_nama\_petugas & "', password='" & \_password & "', status='" & \_status & "' where NAMA\_PETUGAS='" & \_nama\_petugas & "'"

info = "UPDATE"

End If

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

Catch ex As Exception

If (info = "INSERT") Then

InsertState = False

ElseIf (info = "UPDATE") Then

UpdateState = False

Else

End If

Finally

If (info = "INSERT") Then

InsertState = True

ElseIf (info = "UPDATE") Then

UpdateState = True

Else

End If

End Try

DBDisconnect()

End Sub

Public Sub CariNAMA\_PETUGAS(ByVal sKODE\_PETUGAS As String)

DBConnect()

strsql = "SELECT \* FROM NAMA\_PETUGAS WHERE KODE\_PETUGAS='" & sKODE\_PETUGAS & "'"

myCommand.Connection = conn

myCommand.CommandText = strsql

DR = myCommand.ExecuteReader

If (DR.HasRows = True) Then

Petugas\_baru = False

DR.Read()

kode\_petugas = Convert.ToString((DR("kode\_petugas")))

nama\_petugas = Convert.ToString((DR("nama\_petugas")))

password = Convert.ToString((DR("password")))

status = Convert.ToString((DR("status")))

Else

MessageBox.Show("Data Tidak Ditemukan.")

Petugas\_baru = True

End If

DBDisconnect()

End Sub

Public Sub Hapus(ByVal sKODE\_PETUGAS As String)

Dim info As String

DBConnect()

strsql = "DELETE FROM NAMA\_PETUGAS WHERE KODE\_PETUGAS='" & sKODE\_PETUGAS & "'"

info = "DELETE"

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

DeleteState = True

Catch ex As Exception

MessageBox.Show(ex.ToString)

End Try

DBDisconnect()

End Sub

Public Sub getAllData(ByVal dg As DataGridView)

Try

DBConnect()

strsql = "SELECT \* FROM NAMA\_PETUGAS"

myCommand.Connection = conn

myCommand.CommandText = strsql

myData.Clear()

myAdapter.SelectCommand = myCommand

myAdapter.Fill(myData)

With dg

.DataSource = myData

.AllowUserToAddRows = False

.AllowUserToDeleteRows = False

.ReadOnly = True

End With

Catch ex As Exception

MessageBox.Show(ex.ToString)

Finally

DBDisconnect()

End Try

End Sub

End Class

**Form Namabuku**

Public Class frmnamabuku

Private Sub TampilBuku()

txtidbuku.Text = oBuku.idbuku

txtnomorbuku.Text = oBuku.nomor\_buku

txtjudulbuku.Text = oBuku.judul

txtkategori.Text = oBuku.kategori

txtpengarang.Text = oBuku.pengarang

txtpenerbit.Text = oBuku.penerbit

oBuku.CariNAMA\_BUKU(txtidbuku.Text)

If (Buku\_baru = False) Then

TampilBuku()

GetData()

End If

End Sub

Private Sub reload()

GetData()

End Sub

Private Sub SimpanBuku()

Buku\_baru = True

oBuku.idbuku = txtidbuku.Text

oBuku.nomor\_buku = txtnomorbuku.Text

oBuku.judul = txtjudulbuku.Text

oBuku.kategori = txtkategori.Text

oBuku.pengarang = txtpengarang.Text

oBuku.penerbit = txtpenerbit.Text

oBuku.Simpan()

End Sub

Private Sub ClearEntry()

txtidbuku.Text = ""

txtnomorbuku.Text = ""

txtjudulbuku.Text = ""

txtkategori.Text = ""

txtpengarang.Text = ""

txtpenerbit.Text = ""

DataGridView1.DataSource = ""

reload()

End Sub

Private Sub GetData()

oBuku.getAllData(DataGridView1)

End Sub

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)

reload()

End Sub

Private Sub txtidbuku\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtidbuku.KeyDown

If (e.KeyCode = Keys.Enter And txtidbuku.Text <> "") Then

oBuku.CariNAMA\_BUKU(txtidbuku.Text)

If (Buku\_baru = True) Then

txtidbuku.Focus()

Else

TampilBuku()

End If

End If

End Sub

Private Sub txtnomorbuku\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtnomorbuku.KeyDown

If (e.KeyCode = Keys.Enter And txtnomorbuku.Text <> "") Then

oBuku.CariNAMA\_BUKU(txtnomorbuku.Text)

If (Buku\_baru = False) Then

TampilBuku()

Else

MessageBox.Show("Data tidak ditemukan")

End If

End If

End Sub

Private Sub btnrefresh\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRefresh.Click

GetData()

End Sub

Private Sub btnSave\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSave.Click

SimpanBuku()

End Sub

Private Sub btnClear\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click

ClearEntry()

End Sub

End Class

**Class Namabuku**

Public Class namabuku

Dim info As String

Private \_idbuku As System.Decimal

Private \_nomor\_buku As System.String

Private \_judul As System.String

Private \_kategori As System.String

Private \_penerbit As System.String

Private \_pengarang As System.String

Public InsertState As Boolean = False

Public UpdateState As Boolean = False

Public DeleteState As Boolean = False

Public Property idbuku()

Get

Return \_idbuku

End Get

Set(ByVal value)

\_idbuku = value

End Set

End Property

Public Property nomor\_buku()

Get

Return \_nomor\_buku

End Get

Set(ByVal value)

\_nomor\_buku = value

End Set

End Property

Public Property judul()

Get

Return \_judul

End Get

Set(ByVal value)

\_judul = value

End Set

End Property

Public Property kategori()

Get

Return \_kategori

End Get

Set(ByVal value)

\_kategori = value

End Set

End Property

Public Property penerbit()

Get

Return \_penerbit

End Get

Set(ByVal value)

\_penerbit = value

End Set

End Property

Public Property pengarang()

Get

Return \_pengarang

End Get

Set(ByVal value)

\_pengarang = value

End Set

End Property

Private Property strsql As String

Public Sub Simpan()

Dim info As String

DBConnect()

If (Buku\_baru = True) Then

strsql = "Insert into NAMA\_BUKU(idbuku,nomor\_buku,judul,kategori,penerbit,pengarang) values ('" & \_idbuku & "','" & \_nomor\_buku & "','" & \_judul & "','" & \_kategori & "','" & \_penerbit & "','" & \_pengarang & "')"

info = "INSERT"

Else

strsql = "update NAMA\_BUKU set idbuku='" & \_idbuku & "', nomor\_buku='" & \_nomor\_buku & "', judul='" & \_judul & "', kategori='" & \_kategori & "', penerbit='" & \_penerbit & "', pengarang='" & \_pengarang & "' where NOMOR\_BUKU='" & \_nomor\_buku & "'"

info = "UPDATE"

End If

mycommand.Connection = conn

mycommand.CommandText = strsql

Try

mycommand.ExecuteNonQuery()

Catch ex As Exception

If (info = "INSERT") Then

InsertState = False

ElseIf (info = "UPDATE") Then

UpdateState = False

Else

End If

Finally

If (info = "INSERT") Then

InsertState = True

ElseIf (info = "UPDATE") Then

UpdateState = True

Else

End If

End Try

DBDisconnect()

End Sub

Public Sub CariNAMA\_BUKU(ByVal sIDBUKU As String)

DBConnect()

strsql = "SELECT \* FROM NAMA\_BUKU WHERE IDBUKU='" & sIDBUKU & "'"

myCommand.Connection = conn

myCommand.CommandText = strsql

DR = myCommand.ExecuteReader

If (DR.HasRows = True) Then

Buku\_baru = False

DR.Read()

idbuku = Convert.ToString((DR("idbuku")))

nomor\_buku = Convert.ToString((DR("nomor\_buku")))

judul = Convert.ToString((DR("judul")))

kategori = Convert.ToString((DR("kategori")))

penerbit = Convert.ToString((DR("penerbit")))

pengarang = Convert.ToString((DR("pengarang")))

Else

MessageBox.Show("Data Tidak Ditemukan.")

Buku\_baru = True

End If

DBDisconnect()

End Sub

Public Sub Hapus(ByVal sIDBUKU As String)

Dim info As String

DBConnect()

strsql = "DELETE FROM NAMA\_BUKU WHERE IDBUKU='" & sIDBUKU & "'"

info = "DELETE"

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

DeleteState = True

Catch ex As Exception

MessageBox.Show(ex.ToString)

End Try

DBDisconnect()

End Sub

Public Sub getAllData(ByVal dg As DataGridView)

Try

DBConnect()

strsql = "SELECT \* FROM NAMA\_BUKU"

myCommand.Connection = conn

myCommand.CommandText = strsql

myData.Clear()

myAdapter.SelectCommand = myCommand

myAdapter.Fill(myData)

With dg

.DataSource = myData

.AllowUserToAddRows = False

.AllowUserToDeleteRows = False

.ReadOnly = True

End With

Catch ex As Exception

MessageBox.Show(ex.ToString)

Finally

DBDisconnect()

End Try

End Sub

End Class

**Form Peminjaman**

Public Class frmpeminjaman

Private Sub TampilPeminjaman()

txtidpinjam.Text = oPinjam.idpinjam

txttanggal.Text = oPinjam.tanggal\_pinjam

txttotal.Text = oPinjam.total\_pinjam

txtnomorbuku.Text = oPinjam.nomor\_buku

txtjudul.Text = oPinjam.judul

txtnomoranggota.Text = oPinjam.nomor\_anggota

txtnamaanggota.Text = oPinjam.nomor\_anggota

txtkodepetugas.Text = oPinjam.kode\_petugas

txtnamapetugas.Text = oPinjam.nama\_petugas

oPinjam.CariPEMINJAMAN(txtidpinjam.Text)

If (Pinjam\_baru = False) Then

TampilPeminjaman()

GetData()

End If

End Sub

Private Sub reload()

GetData()

End Sub

Private Sub SimpanPeminjaman()

Pinjam\_baru = True

oPinjam.idpinjam = txtidpinjam.Text

oPinjam.tanggal\_pinjam = txttanggal.Text

oPinjam.total\_pinjam = txttotal.Text

oPinjam.nomor\_buku = txtnomorbuku.Text

oPinjam.judul = txtjudul.Text

oPinjam.nomor\_anggota = txtnomoranggota.Text

oPinjam.nama\_anggota = txtnamaanggota.Text

oPinjam.kode\_petugas = txtkodepetugas.Text

oPinjam.nama\_petugas = txtnamapetugas.Text

oPinjam.Simpan()

End Sub

Private Sub ClearEntry()

txtidpinjam.Text = ""

txttanggal.Text = ""

txttotal.Text = ""

txtnomorbuku.Text = ""

txtjudul.Text = ""

txtnomoranggota.Text = ""

txtnamaanggota.Text = ""

txtkodepetugas.Text = ""

txtnamapetugas.Text = ""

DataGridView1.DataSource = ""

reload()

End Sub

Private Sub GetData()

oPinjam.getAllData(DataGridView1)

End Sub

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)

reload()

End Sub

Private Sub txtidpinjam\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtidpinjam.KeyDown

If (e.KeyCode = Keys.Enter And txtidpinjam.Text <> "") Then

oPinjam.CariPEMINJAMAN(txtidpinjam.Text)

If (Pinjam\_baru = True) Then

txtidpinjam.Focus()

Else

TampilPeminjaman()

End If

End If

End Sub

Private Sub txttanggal\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txttanggal.KeyDown

If (e.KeyCode = Keys.Enter And txttanggal.Text <> "") Then

oPinjam.CariPEMINJAMAN(txttanggal.Text)

If (Pinjam\_baru = False) Then

TampilPeminjaman()

Else

MessageBox.Show("Data tidak ditemukan")

End If

End If

End Sub

Private Sub btnrefresh\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRefresh.Click

GetData()

End Sub

Private Sub btnSave\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSave.Click

SimpanPeminjaman()

Peminjaman\_Detail.ShowDialog()

End Sub

Private Sub btnClear\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click

ClearEntry()

End Sub

End Class

**Class Peminjaman**

Public Class Peminjaman

Dim strsql As String

Dim info As String

Private \_idpinjam As System.String

Private \_tanggal\_pinjam As System.DateTime

Private \_total\_pinjam As System.String

Private \_nomor\_buku As System.String

Private \_judul As System.String

Private \_nomor\_anggota As System.String

Private \_nama\_anggota As System.String

Private \_kode\_petugas As System.String

Private \_nama\_petugas As System.String

Public InsertState As Boolean = False

Public UpdateState As Boolean = False

Public DeleteState As Boolean = False

Public Property idpinjam()

Get

Return \_idpinjam

End Get

Set(ByVal value)

\_idpinjam = value

End Set

End Property

Public Property tanggal\_pinjam()

Get

Return \_tanggal\_pinjam

End Get

Set(ByVal value)

\_tanggal\_pinjam = value

End Set

End Property

Public Property total\_pinjam()

Get

Return \_total\_pinjam

End Get

Set(ByVal value)

\_total\_pinjam = value

End Set

End Property

Public Property nomor\_buku()

Get

Return \_nomor\_buku

End Get

Set(ByVal value)

\_nomor\_buku = value

End Set

End Property

Public Property judul()

Get

Return \_judul

End Get

Set(ByVal value)

\_judul = value

End Set

End Property

Public Property nomor\_anggota()

Get

Return \_nomor\_anggota

End Get

Set(ByVal value)

\_nomor\_anggota = value

End Set

End Property

Public Property nama\_anggota()

Get

Return \_nama\_anggota

End Get

Set(ByVal value)

\_nama\_anggota = value

End Set

End Property

Public Property kode\_petugas()

Get

Return \_kode\_petugas

End Get

Set(ByVal value)

\_kode\_petugas = value

End Set

End Property

Public Property nama\_petugas()

Get

Return \_nama\_petugas

End Get

Set(ByVal value)

\_nama\_petugas = value

End Set

End Property

Public Sub Simpan()

Dim info As String

DBConnect()

If (Pinjam\_baru = True) Then

strsql = "Insert into PEMINJAMAN(idpinjam,tanggal\_pinjam,total\_pinjam,nomor\_buku,judul,nomor\_anggota,nama\_anggota,kode\_petugas,nama\_petugas) values ('" & \_idpinjam & "','" & \_tanggal\_pinjam & "','" & \_total\_pinjam & "','" & \_nomor\_buku & "','" & \_judul & "','" & \_nomor\_anggota & "','" & \_nama\_anggota & "','" & \_kode\_petugas & "','" & \_nama\_petugas & "')"

info = "INSERT"

Else

strsql = "update PEMINJAMAN set idpinjam='" & \_idpinjam & "', tanggal\_pinjam='" & \_tanggal\_pinjam & "', total\_pinjam='" & \_total\_pinjam & "', nomor\_buku='" & \_nomor\_buku & "', judul='" & \_judul & "', nomor\_anggota='" & \_nomor\_anggota & "', nama\_anggota='" & \_nama\_anggota & "', kode\_petugas='" & \_kode\_petugas & "', nama\_petugas='" & \_nama\_petugas & "' where TANGGAL\_PINJAM='" & \_tanggal\_pinjam & "'"

info = "UPDATE"

End If

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

Catch ex As Exception

If (info = "INSERT") Then

InsertState = False

ElseIf (info = "UPDATE") Then

UpdateState = False

Else

End If

Finally

If (info = "INSERT") Then

InsertState = True

ElseIf (info = "UPDATE") Then

UpdateState = True

Else

End If

End Try

DBDisconnect()

End Sub

Public Sub CariPEMINJAMAN(ByVal sIDPINJAM As String)

DBConnect()

strsql = "SELECT \* FROM PEMINJAMAN WHERE IDPINJAM='" & sIDPINJAM & "'"

myCommand.Connection = conn

myCommand.CommandText = strsql

DR = myCommand.ExecuteReader

If (DR.HasRows = True) Then

Pinjam\_baru = False

DR.Read()

idpinjam = Convert.ToString((DR("idpinjam")))

tanggal\_pinjam = Convert.ToString((DR("tanggal\_pinjam")))

total\_pinjam = Convert.ToString((DR("total\_pinjam")))

nomor\_buku = Convert.ToString((DR("nomor\_buku")))

judul = Convert.ToString((DR("judul")))

nomor\_anggota = Convert.ToString((DR("nomor\_anggota")))

nama\_anggota = Convert.ToString((DR("nama\_anggota")))

kode\_petugas = Convert.ToString((DR("kode\_petugas")))

nama\_petugas = Convert.ToString((DR("nama\_petugas")))

Else

MessageBox.Show("Data Tidak Ditemukan.")

Pinjam\_baru = True

End If

DBDisconnect()

End Sub

Public Sub Hapus(ByVal sIDPINJAM As String)

Dim info As String

DBConnect()

strsql = "DELETE FROM PEMINJAMAN WHERE IDPINJAM='" & sIDPINJAM & "'"

info = "DELETE"

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

DeleteState = True

Catch ex As Exception

MessageBox.Show(ex.ToString)

End Try

DBDisconnect()

End Sub

Public Sub getAllData(ByVal dg As DataGridView)

Try

DBConnect()

strsql = "SELECT \* FROM PEMINJAMAN"

myCommand.Connection = conn

myCommand.CommandText = strsql

myData.Clear()

myAdapter.SelectCommand = myCommand

myAdapter.Fill(myData)

With dg

.DataSource = myData

.AllowUserToAddRows = False

.AllowUserToDeleteRows = False

.ReadOnly = True

End With

Catch ex As Exception

MessageBox.Show(ex.ToString)

Finally

DBDisconnect()

End Try

End Sub

End Class

**Form Pengembalian**

Public Class frmpengembalian

Private Sub TampilPengembalian()

txtnomorkembali.Text = oKembali.nomor\_kembali

txtTanggal.Text = oKembali.tanggal\_kembali

txtnomorbuku.Text = oKembali.nomor\_buku

txtJudul.Text = oKembali.judul\_buku

txtTotal.Text = oKembali.total\_kembali

txtdenda.Text = oKembali.denda

oKembali.CariPENGEMBALIANBUKU(txtnomorkembali.Text)

If (PENGEMBALIANBUKU\_baru = True) Then

TampilPengembalian()

GetData()

End If

End Sub

Private Sub reload()

GetData()

End Sub

Private Sub SimpanPengembalian()

PENGEMBALIANBUKU\_baru = True

oKembali.nomor\_kembali = txtnomorkembali.Text

oKembali.tanggal\_kembali = txtTanggal.Text

oKembali.nomor\_buku = txtnomorbuku.Text

oKembali.judul\_buku = txtJudul.Text

oKembali.total\_kembali = txtTotal.Text

oKembali.denda = txtdenda.Text

oKembali.Simpan()

End Sub

Private Sub ClearEntry()

txtnomorkembali.Text = ""

txttanggal.Text = ""

txtnomorbuku.Text = ""

txtJudul.Text = ""

txtTotal.Text = ""

txtdenda.Text = ""

DataGridView1.DataSource = ""

reload()

End Sub

Private Sub GetData()

oKembali.getAllData(DataGridView1)

End Sub

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)

reload()

End Sub

Private Sub txtnomorkembali\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtnomorkembali.KeyDown

If (e.KeyCode = Keys.Enter And txtnomorkembali.Text <> "") Then

oKembali.CariPENGEMBALIANBUKU(txtnomorkembali.Text)

If (PENGEMBALIANBUKU\_baru = True) Then

txtnomorkembali.Focus()

Else

TampilPengembalian()

End If

End If

End Sub

Private Sub txttanggal\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtTanggal.KeyDown

If (e.KeyCode = Keys.Enter And txttanggal.Text <> "") Then

oKembali.CariPENGEMBALIANBUKU(txtTanggal.Text)

If (Pinjam\_baru = False) Then

TampilPengembalian()

Else

MessageBox.Show("Data tidak ditemukan")

End If

End If

End Sub

Private Sub btnrefresh\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRefresh.Click

GetData()

End Sub

Private Sub btnSave\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSave.Click

SimpanPengembalian()

PengembalianDetail.ShowDialog()

End Sub

Private Sub btnClear\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click

ClearEntry()

End Sub

End Class

**Class Pengembalian**

Public Class Pengembalian

Dim strsql As String

Dim info As String

Private \_nomor\_kembali As System.String

Private \_tanggal\_kembali As System.DateTime

Private \_nomor\_buku As System.String

Private \_judul\_buku As System.String

Private \_total\_kembali As System.String

Private \_denda As System.String

Public InsertState As Boolean = False

Public UpdateState As Boolean = False

Public DeleteState As Boolean = False

Public Property nomor\_kembali()

Get

Return \_nomor\_kembali

End Get

Set(ByVal value)

\_nomor\_kembali = value

End Set

End Property

Public Property tanggal\_kembali()

Get

Return \_tanggal\_kembali

End Get

Set(ByVal value)

\_tanggal\_kembali = value

End Set

End Property

Public Property nomor\_buku()

Get

Return \_nomor\_buku

End Get

Set(ByVal value)

\_nomor\_buku = value

End Set

End Property

Public Property judul\_buku()

Get

Return \_judul\_buku

End Get

Set(ByVal value)

\_judul\_buku = value

End Set

End Property

Public Property total\_kembali()

Get

Return \_total\_kembali

End Get

Set(ByVal value)

\_total\_kembali = value

End Set

End Property

Public Property denda()

Get

Return \_denda

End Get

Set(ByVal value)

\_denda = value

End Set

End Property

Public Sub Simpan()

Dim info As String

DBConnect()

If (PENGEMBALIANBUKU\_baru = True) Then

strsql = "Insert into PENGEMBALIANBUKU(nomor\_kembali,tanggal\_kembali,nomor\_buku,judul\_buku,total\_kembali,denda) values ('" & \_nomor\_kembali & "','" & \_tanggal\_kembali & "','" & \_nomor\_buku & "','" & \_judul\_buku & "','" & \_total\_kembali & "','" & \_denda & "')"

info = "INSERT"

Else

strsql = "update PENGEMBALIANBUKU set nomor\_kembali='" & \_nomor\_kembali & "', tanggal\_kembali='" & \_tanggal\_kembali & "', nomor\_buku='" & \_nomor\_buku & "', judul\_buku='" & \_judul\_buku & "', total\_kembali='" & \_total\_kembali & "', denda='" & \_denda & "' where TANGGAL\_KEMBALI='" & \_TANGGAL\_KEMBALI & "'"

info = "UPDATE"

End If

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

Catch ex As Exception

If (info = "INSERT") Then

InsertState = False

ElseIf (info = "UPDATE") Then

UpdateState = False

Else

End If

Finally

If (info = "INSERT") Then

InsertState = True

ElseIf (info = "UPDATE") Then

UpdateState = True

Else

End If

End Try

DBDisconnect()

End Sub

Public Sub CariPENGEMBALIANBUKU(ByVal sNOMOR\_KEMBALI As String)

DBConnect()

strsql = "SELECT \* FROM PENGEMBALIANBUKU WHERE NOMOR\_KEMBALI='" & sNOMOR\_KEMBALI & "'"

myCommand.Connection = conn

myCommand.CommandText = strsql

DR = myCommand.ExecuteReader

If (DR.HasRows = True) Then

PENGEMBALIANBUKU\_baru = False

DR.Read()

nomor\_kembali = Convert.ToString((DR("nomor\_kembali")))

tanggal\_kembali = Convert.ToString((DR("tanggal\_kembali")))

nomor\_buku = Convert.ToString((DR("nomor\_buku")))

judul\_buku = Convert.ToString((DR("judul\_buku")))

total\_kembali = Convert.ToString((DR("total\_kembali")))

denda = Convert.ToString((DR("denda")))

Else

MessageBox.Show("Data Tidak Ditemukan.")

PENGEMBALIANBUKU\_baru = True

End If

DBDisconnect()

End Sub

Public Sub Hapus(ByVal sNOMOR\_KEMBALI As String)

Dim info As String

DBConnect()

strsql = "DELETE FROM PENGEMBALIANBUKU WHERE NOMOR\_KEMBALI='" & sNOMOR\_KEMBALI & "'"

info = "DELETE"

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

DeleteState = True

Catch ex As Exception

MessageBox.Show(ex.ToString)

End Try

DBDisconnect()

End Sub

Public Sub getAllData(ByVal dg As DataGridView)

Try

DBConnect()

strsql = "SELECT \* FROM PENGEMBALIANBUKU"

myCommand.Connection = conn

myCommand.CommandText = strsql

myData.Clear()

myAdapter.SelectCommand = myCommand

myAdapter.Fill(myData)

With dg

.DataSource = myData

.AllowUserToAddRows = False

.AllowUserToDeleteRows = False

.ReadOnly = True

End With

Catch ex As Exception

MessageBox.Show(ex.ToString)

Finally

DBDisconnect()

End Try

End Sub

End Class

**Form Peminjaman Detail**

Public Class Peminjaman\_Detail

Private Sub ClearEntry()

txtIdpinjam.Text = ""

txtkodepetugas.Text = ""

txtnamaanggota.Text = ""

End Sub

Private Sub Reload()

oPinDet.getAllData(DataGridView1)

End Sub

Private Sub SimpanPeminjamandetail()

oPinDet.idpinjam = txtIdpinjam.Text

oPinDet.kode\_petugas = txtkodepetugas.Text

oPinDet.nama\_anggota = txtnamaanggota.Text

PEMINJAMANDETAIL\_baru = True

oPinDet.Simpan()

ClearEntry()

Reload()

End Sub

Private Sub btnClose\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClose.Click

Me.Close()

End Sub

Private Sub btnAdd\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnAdd.Click

SimpanPeminjamandetail()

txtIdpinjam.Focus()

End Sub

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

txtkodepetugas.Text = kodePet

End Sub

Private Sub txtidpinjam\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtIdpinjam.KeyDown

If (e.KeyCode = Keys.Enter And txtIdpinjam.Text <> "") Then

oPinDet.CariPEMINJAMAN(txtIdpinjam.Text)

txtkodepetugas.Text = oPinDet.kode\_petugas

txtkodepetugas.Text = oPinDet.kode\_petugas

txtnamaanggota.Text = oPinDet.total\_pinjam

End If

End Sub

End Class

**Class Peminjaman Detail**

Public Class Detailpeminjaman

Dim strsql As String

Dim info As String

Private \_idpinjam As System.Decimal

Private \_kode\_petugas As System.String

Private \_nama\_anggota As System.String

Public InsertState As Boolean = False

Public UpdateState As Boolean = False

Public DeleteState As Boolean = False

Public Property idpinjam()

Get

Return \_idpinjam

End Get

Set(ByVal value)

\_idpinjam = value

End Set

End Property

Public Property kode\_petugas()

Get

Return \_kode\_petugas

End Get

Set(ByVal value)

\_kode\_petugas = value

End Set

End Property

Public Property nama\_anggota()

Get

Return \_nama\_anggota

End Get

Set(ByVal value)

\_nama\_anggota = value

End Set

End Property

Public Sub Simpan()

Dim info As String

DBConnect()

If (PEMINJAMANDETAIL\_baru = True) Then

strsql = "Insert into PEMINJAMANDETAIL(idpinjam,kode\_petugas,nama\_anggota) values ('" & \_idpinjam & "','" & \_kode\_petugas & "','" & \_nama\_anggota & "')"

info = "INSERT"

Else

strsql = "update PEMINJAMANDETAIL set idpinjam='" & \_idpinjam & "', kode\_petugas='" & \_kode\_petugas & "', nama\_anggota='" & \_nama\_anggota & "' where KODE\_PETUGAS='" & \_KODE\_PETUGAS & "'"

info = "UPDATE"

End If

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

Catch ex As Exception

If (info = "INSERT") Then

InsertState = False

ElseIf (info = "UPDATE") Then

UpdateState = False

Else

End If

Finally

If (info = "INSERT") Then

InsertState = True

ElseIf (info = "UPDATE") Then

UpdateState = True

Else

End If

End Try

DBDisconnect()

End Sub

Public Sub CariPEMINJAMANDETAIL(ByVal sIDPINJAM As String)

DBConnect()

strsql = "SELECT \* FROM PEMINJAMANDETAIL WHERE IDPINJAM='" & sIDPINJAM & "'"

myCommand.Connection = conn

myCommand.CommandText = strsql

DR = myCommand.ExecuteReader

If (DR.HasRows = True) Then

PEMINJAMANDETAIL\_baru = False

DR.Read()

idpinjam = Convert.ToString((DR("idpinjam")))

kode\_petugas = Convert.ToString((DR("kode\_petugas")))

nama\_anggota = Convert.ToString((DR("nama\_anggota")))

Else

MessageBox.Show("Data Tidak Ditemukan.")

PEMINJAMANDETAIL\_baru = True

End If

DBDisconnect()

End Sub

Public Sub Hapus(ByVal sIDPINJAM As String)

Dim info As String

DBConnect()

strsql = "DELETE FROM PEMINJAMANDETAIL WHERE IDPINJAM='" & sIDPINJAM & "'"

info = "DELETE"

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

DeleteState = True

Catch ex As Exception

MessageBox.Show(ex.ToString)

End Try

DBDisconnect()

End Sub

Public Sub getAllData(ByVal dg As DataGridView)

Try

DBConnect()

strsql = "SELECT \* FROM PEMINJAMANDETAIL"

myCommand.Connection = conn

myCommand.CommandText = strsql

myData.Clear()

myAdapter.SelectCommand = myCommand

myAdapter.Fill(myData)

With dg

.DataSource = myData

.AllowUserToAddRows = False

.AllowUserToDeleteRows = False

.ReadOnly = True

End With

Catch ex As Exception

MessageBox.Show(ex.ToString)

Finally

DBDisconnect()

End Try

End Sub

End Class

**Form Pengembalian Detail**

Public Class PengembalianDetail

Private Sub ClearEntry()

txtnomorbuku.Text = ""

txtJudul.Text = ""

txtTotal.Text = ""

End Sub

Private Sub Reload()

oPdetail.getAllData(DataGridView1)

End Sub

Private Sub SimpanPengembaliandetail()

oPdetail.nomor\_buku = txtnomorbuku.Text

oPdetail.judul\_buku = txtJudul.Text

oPdetail.total\_pengembalian = txtTotal.Text

PENGEMBALIANDETAIL\_baru = True

oPdetail.Simpan()

ClearEntry()

Reload()

End Sub

Private Sub btnClose\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClose.Click

Me.Close()

End Sub

Private Sub btnAdd\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnAdd.Click

SimpanPengembaliandetail()

txtnomorbuku.Focus()

End Sub

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

txtJudul.Text = Jbukku

End Sub

Private Sub txtJudul\_KeyDown(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyEventArgs) Handles txtJudul.KeyDown

If (e.KeyCode = Keys.Enter And txtJudul.Text <> "") Then

oPdetail.CariPENGEMBALIANDETAIL(txtJudul.Text)

txtTotal.Text = oPdetail.total\_pengembalian

txtJudul.Text = oPdetail.judul\_buku

End If

End Sub

End Class

**Class Pengembalian Detail**

Public Class Detailpengembalian

Dim strsql As String

Dim info As String

Private \_nomor\_buku As System.String

Private \_judul\_buku As System.String

Private \_total\_pengembalian As System.String

Public InsertState As Boolean = False

Public UpdateState As Boolean = False

Public DeleteState As Boolean = False

Public Property nomor\_buku()

Get

Return \_nomor\_buku

End Get

Set(ByVal value)

\_nomor\_buku = value

End Set

End Property

Public Property judul\_buku()

Get

Return \_judul\_buku

End Get

Set(ByVal value)

\_judul\_buku = value

End Set

End Property

Public Property total\_pengembalian()

Get

Return \_total\_pengembalian

End Get

Set(ByVal value)

\_total\_pengembalian = value

End Set

End Property

Public Sub Simpan()

Dim info As String

DBConnect()

If (PENGEMBALIANDETAIL\_baru = True) Then

strsql = "Insert into PENGEMBALIANDETAIL(nomor\_buku,judul\_buku,total\_pengembalian) values ('" & \_nomor\_buku & "','" & \_judul\_buku & "','" & \_total\_pengembalian & "')"

info = "INSERT"

Else

strsql = "update PENGEMBALIANDETAIL set nomor\_buku='" & \_nomor\_buku & "', judul\_buku='" & \_judul\_buku & "', total\_pengembalian='" & \_total\_pengembalian & "' where JUDUL\_BUKU='" & \_JUDUL\_BUKU & "'"

info = "UPDATE"

End If

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

Catch ex As Exception

If (info = "INSERT") Then

InsertState = False

ElseIf (info = "UPDATE") Then

UpdateState = False

Else

End If

Finally

If (info = "INSERT") Then

InsertState = True

ElseIf (info = "UPDATE") Then

UpdateState = True

Else

End If

End Try

DBDisconnect()

End Sub

Public Sub CariPENGEMBALIANDETAIL(ByVal sNOMOR\_BUKU As String)

DBConnect()

strsql = "SELECT \* FROM PENGEMBALIANDETAIL WHERE NOMOR\_BUKU='" & sNOMOR\_BUKU & "'"

myCommand.Connection = conn

myCommand.CommandText = strsql

DR = myCommand.ExecuteReader

If (DR.HasRows = True) Then

PENGEMBALIANDETAIL\_baru = False

DR.Read()

nomor\_buku = Convert.ToString((DR("nomor\_buku")))

judul\_buku = Convert.ToString((DR("judul\_buku")))

total\_pengembalian = Convert.ToString((DR("total\_pengembalian")))

Else

MessageBox.Show("Data Tidak Ditemukan.")

PENGEMBALIANDETAIL\_baru = True

End If

DBDisconnect()

End Sub

Public Sub Hapus(ByVal sNOMOR\_BUKU As String)

Dim info As String

DBConnect()

strsql = "DELETE FROM PENGEMBALIANDETAIL WHERE NOMOR\_BUKU='" & sNOMOR\_BUKU & "'"

info = "DELETE"

myCommand.Connection = conn

myCommand.CommandText = strsql

Try

myCommand.ExecuteNonQuery()

DeleteState = True

Catch ex As Exception

MessageBox.Show(ex.ToString)

End Try

DBDisconnect()

End Sub

Public Sub getAllData(ByVal dg As DataGridView)

Try

DBConnect()

strsql = "SELECT \* FROM PENGEMBALIANDETAIL"

myCommand.Connection = conn

myCommand.CommandText = strsql

myData.Clear()

myAdapter.SelectCommand = myCommand

myAdapter.Fill(myData)

With dg

.DataSource = myData

.AllowUserToAddRows = False

.AllowUserToDeleteRows = False

.ReadOnly = True

End With

Catch ex As Exception

MessageBox.Show(ex.ToString)

Finally

DBDisconnect()

End Try

End Sub

End Class