Imports System.Data.OleDb

' This class is a helper class for connect database with forms.

' All queries and database related work doing here.

Public Class THT\_Helper

'Get connection string from app.config

Private connStr As String = "Provider=Microsoft.ACE.OLEDB.12.0;Data Source=THT\_Databese.accdb;Persist Security Info=True"

' Category table query

Public Function getCategoryById(catId As Long) As Category

Dim objCat As Category = New Category()

' Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

cn.Open()

Dim reader As OleDbDataReader = Nothing

' Create a OleDbCommand object with select query in parameter

Dim cmd As OleDbCommand = New OleDbCommand("SELECT \* FROM [THT\_CATEGORY] WHERE CAT\_ID = " & catId.ToString, cn)

reader = cmd.ExecuteReader()

' If no data found, then show message and return

If (Not reader.HasRows) Then

Return Nothing

Else

While reader.Read()

If Not reader.IsDBNull(0) Then

objCat.catId = CType(reader.GetValue(0), Integer)

objCat.catName = reader.GetString(1)

End If

End While

End If

cn.Close()

Return objCat

End Function

Public Function getAllCategories() As DataSet

Dim ds As DataSet = New DataSet()

' Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

' Open the database connection

cn.Open()

Dim adapter As OleDbDataAdapter = New OleDbDataAdapter("SELECT \* FROM [THT\_CATEGORY]", cn)

adapter.Fill(ds)

cn.Close()

Return ds

End Function

Public Function addCategory(catName As String) As Boolean

Dim result As Boolean

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "INSERT INTO [THT\_CATEGORY] ([CAT\_NAME]) values (?)"

cmd.Parameters.AddWithValue("@catName", catName)

cmd.Connection = cn

' Open the database connection

cn.Open()

If cmd.ExecuteNonQuery() >= 1 Then

result = True

End If

cn.Close()

Return result

End Function

Public Function updateCategory(catId As Integer, catName As String) As Boolean

Dim result As Boolean

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "UPDATE [THT\_CATEGORY] SET [CAT\_NAME] = ? WHERE [CAT\_ID] = " & catId.ToString()

cmd.Parameters.AddWithValue("@catName", catName)

cmd.Connection = cn

' Open the database connection

cn.Open()

If cmd.ExecuteNonQuery() >= 1 Then

result = True

End If

cn.Close()

Return result

End Function

Public Function deleteCategory(catId As Integer) As Integer

Dim rowEffected As Integer

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "DELETE FROM [THT\_CATEGORY] WHERE [CAT\_ID] = " & catId.ToString

cmd.Connection = cn

cn.Open()

' Open the database connection

rowEffected = cmd.ExecuteNonQuery()

cn.Close()

Return rowEffected

End Function

' Item table Query

Public Function getItemById(itemId As Integer) As Item

Dim objItem As Item = New Item()

' Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

cn.Open()

Dim reader As OleDbDataReader = Nothing

' Create a OleDbCommand object with select query in parameter

Dim cmd As OleDbCommand = New OleDbCommand("SELECT \* FROM [THT\_ITEM] WHERE [ITEM\_ID] = " & itemId.ToString, cn)

reader = cmd.ExecuteReader()

' If no data found, then show message and return

If (Not reader.HasRows) Then

Return Nothing

Else

While reader.Read()

If Not reader.IsDBNull(0) Then

objItem.itemId = CType(reader.GetValue(0), Integer)

objItem.catId = CType(reader.GetValue(1), Integer)

objItem.catName = reader.GetString(2)

objItem.itemName = reader.GetString(3)

objItem.unitPrice = CType(reader.GetValue(4), Decimal)

End If

End While

End If

cn.Close()

Return objItem

End Function

Public Function getAllItems() As DataSet

Dim ds As DataSet = New DataSet()

' Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

' Open the database connection

cn.Open()

Dim adapter As OleDbDataAdapter = New OleDbDataAdapter("SELECT \* FROM [THT\_ITEM]", cn)

adapter.Fill(ds)

cn.Close()

Return ds

End Function

Public Function addItem(catId As Integer, catName As String, itemName As String, unitPrice As Decimal) As Boolean

Dim result As Boolean

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "INSERT INTO [THT\_ITEM] ([CAT\_ID], [CAT\_NAME], [ITEM\_NAME], [UNIT\_PRICE])" \_

& " values (?, ?, ?, ?)"

cmd.Parameters.AddWithValue("@catId", catId)

cmd.Parameters.AddWithValue("@catName", catName)

cmd.Parameters.AddWithValue("@itemName", itemName)

cmd.Parameters.AddWithValue("@unitPrice", unitPrice)

cmd.Connection = cn

' Open the database connection

cn.Open()

If cmd.ExecuteNonQuery() >= 1 Then

result = True

End If

cn.Close()

Return result

End Function

Public Function updateItem(itemId As Integer, catId As Integer, catName As String, itemName As String, unitPrice As Decimal) As Boolean

Dim result As Boolean

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "UPDATE [THT\_ITEM] SET [CAT\_ID] = ?, [CAT\_NAME] = ?, [ITEM\_NAME] = ?, [UNIT\_PRICE] = ?" \_

& " WHERE [ITEM\_ID] = " & itemId.ToString

cmd.Parameters.AddWithValue("@catId", catId)

cmd.Parameters.AddWithValue("@catName", catName)

cmd.Parameters.AddWithValue("@itemName", itemName)

cmd.Parameters.AddWithValue("@unitPrice", unitPrice)

cmd.Connection = cn

' Open the database connection

cn.Open()

If cmd.ExecuteNonQuery() >= 1 Then

result = True

End If

cn.Close()

Return result

End Function

Public Function deleteItem(itemId As Integer) As Integer

Dim rowEffected As Integer

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "DELETE FROM [THT\_ITEM] WHERE [ITEM\_ID] = " & itemId.ToString

cmd.Connection = cn

' Open the database connection

cn.Open()

rowEffected = cmd.ExecuteNonQuery()

cn.Close()

Return rowEffected

End Function

Public Function deleteItemByCat(catId As Integer) As Integer

Dim rowEffected As Integer

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "DELETE FROM [THT\_ITEM] WHERE [CAT\_ID] = " & catId.ToString

cmd.Connection = cn

' Open the database connection

cn.Open()

rowEffected = cmd.ExecuteNonQuery()

cn.Close()

Return rowEffected

End Function

' Order table Query

Public Function addOrder(objOrder As Order) As Boolean

Dim result As Boolean

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "INSERT INTO [THT\_ORDER] ([ORDER\_DATE])" \_

& " values (?)"

cmd.Parameters.AddWithValue("@orderDt", objOrder.orderDate)

cmd.Connection = cn

' Open the database connection

cn.Open()

If cmd.ExecuteNonQuery() >= 1 Then

result = True

End If

cn.Close()

Return result

End Function

Public Function updateOrder(objOrder As Order) As Boolean

Dim result As Boolean

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "UPDATE [THT\_ORDER] SET [ORDER#] = ?, [DISCOUNT] = ?, [TOTAL\_COST] = ?" \_

& " WHERE [ORDER\_ID] = " & objOrder.orderId.ToString

cmd.Parameters.AddWithValue("@orderNum", objOrder.orderNum)

cmd.Parameters.AddWithValue("@dis", objOrder.discount)

cmd.Parameters.AddWithValue("@total", objOrder.total)

cmd.Connection = cn

' Open the database connection

cn.Open()

If cmd.ExecuteNonQuery() >= 1 Then

result = True

End If

cn.Close()

Return result

End Function

Public Function getCurrentOrderId() As Integer

Dim id As Integer = -1

' Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

cn.Open()

' Create a OleDbCommand object with select query in parameter as per table name

Dim cmd As OleDbCommand = New OleDbCommand("SELECT LAST(ORDER\_ID) FROM [THT\_ORDER]", cn)

id = cmd.ExecuteScalar()

cn.Close()

Return id

End Function

' Order Details table query

Public Function addOrderDetails(objOrderDetails As OrderDetails, orderId As Integer) As Boolean

Dim result As Boolean

'Create an OleDbConnection object by passing the connection string

Dim cn As OleDbConnection = New OleDbConnection(connStr)

Dim cmd As OleDbCommand = New OleDbCommand()

cmd.CommandType = CommandType.Text

cmd.CommandText = "INSERT INTO [THT\_ORDER\_DETAILS] ([ORDER\_ID], [QUANTITY], [COST], [ITEM\_ID])" \_

& " values (?, ?, ?, ?)"

cmd.Parameters.AddWithValue("@orderId", orderId)

cmd.Parameters.AddWithValue("@qty", objOrderDetails.quantity)

cmd.Parameters.AddWithValue("@cost", objOrderDetails.cost)

cmd.Parameters.AddWithValue("@itemId", objOrderDetails.objItem.itemId)

cmd.Connection = cn

' Open the database connection

cn.Open()

If cmd.ExecuteNonQuery() >= 1 Then

result = True

End If

cn.Close()

Return result

End Function

End Class