Usama Bin Hafeez Abbasi

Internet Application Development

Pine Valley Furniture Company

Quiz

Code:

Imports System.Data.SqlClient

Imports System.Data

Imports System.Text

Imports System.Configuration

Public Class PVFC\_Quiz

Inherits System.Web.UI.Page

Protected Sub Page\_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load

If Not IsPostBack Then

'Populating a DataTable from database.

Dim dt As DataTable = Me.GetData()

'Building an HTML string.

Dim html As New StringBuilder()

'Table start.

html.Append("<table border = '1'>")

'Building the Header row.

html.Append("<tr>")

For Each column As DataColumn In dt.Columns

html.Append("<th>")

html.Append(column.ColumnName)

html.Append("</th>")

Next

html.Append("</tr>")

'Building the Data rows.

For Each row As DataRow In dt.Rows

html.Append("<tr>")

For Each column As DataColumn In dt.Columns

html.Append("<td>")

html.Append(row(column.ColumnName))

html.Append("</td>")

Next

html.Append("</tr>")

Next

'Table end.

html.Append("</table>")

'Append the HTML string to Placeholder.

tableHolder.Controls.Add(New Literal() With {

.Text = html.ToString()

})

End If

End Sub

Protected Sub Button1\_Click(sender As Object, e As EventArgs) Handles btnAddRecord.Click

If custId.Text = "" Or custNme.Text = "" Or custAdrs.Text = "" Or custState.Text = "" Or custPstlCde.Text = "" Then

lblResults.Text = "Records require an CustomerID, Customer Name, Customer Address, Customer State, Cutomer Postal Code"

Return

End If

Dim conStr As String = "Data Source=localHost;Initial Catalog=test;Integrated Security=True"

Dim insertSQL As String

insertSQL = "SET IDENTITY\_INSERT Customer\_T ON SET ANSI\_WARNINGS OFF "

insertSQL &= "INSERT INTO [Customer\_T]("

insertSQL &= "[CustomerID], [CustomerName], [CustomerAddress], [CustomerCity], "

insertSQL &= "[CustomerState], [CustomerPostalCode]) "

insertSQL &= "VALUES('"

insertSQL &= custId.Text & "', '"

insertSQL &= custNme.Text & "', '"

insertSQL &= custAdrs.Text & "', '"

insertSQL &= custCty.Text & "', '"

insertSQL &= custState.Text & "', '"

insertSQL &= custPstlCde.Text & "')"

Dim con As New SqlConnection(conStr)

Dim cmd As New SqlCommand(insertSQL, con)

' Try to open the database and execute the update.

Dim added As Integer = 0

Try

con.Open()

added = cmd.ExecuteNonQuery()

lblResults.Text = added.ToString() & " records inserted."

Catch err As Exception

lblResults.Text = "Error inserting record. "

lblResults.Text &= err.Message

Finally

con.Close()

End Try

' If the insert succeeded, refresh the author list.

If added > 0 Then

Dim html As New StringBuilder()

html = ShowData()

'Append the HTML string to Placeholder.

tableHolder.Controls.Add(New Literal() With {

.Text = html.ToString()

})

End If

End Sub

Protected Sub Button2\_Click(sender As Object, e As EventArgs) Handles btnRemoveRecord.Click

Dim conStr As String = "Data Source=localHost;Initial Catalog=test;Integrated Security=True"

' Define ADO.NET objects.

Dim deleteSQL As String

deleteSQL = "SET IDENTITY\_INSERT Customer\_T ON SET ANSI\_WARNINGS OFF "

deleteSQL &= "DELETE From Customer\_T WHERE CustomerID=@CustomerID"

Dim con As New SqlConnection(conStr)

Dim cmd As New SqlCommand(deleteSQL, con)

' Add the parameters.

cmd.Parameters.AddWithValue("@CustomerID", custId.Text)

' Try to open the database and delete the record.

Dim deleted As Integer = 0

Try

con.Open()

deleted = cmd.ExecuteNonQuery()

lblResults.Text &= "Record deleted."

Catch err As Exception

lblResults.Text = "Error deleting author. "

lblResults.Text &= err.Message

Finally

con.Close()

End Try

' If the delete succeeded, refresh the author list.

If deleted > 0 Then

'lblResults.Text = ""

Dim html As New StringBuilder()

html = ShowData()

'Append the HTML string to Placeholder.

tableHolder.Controls.Add(New Literal() With {

.Text = html.ToString()

})

End If

End Sub

Protected Sub Button3\_Click(sender As Object, e As EventArgs) Handles btnUpdateRecord.Click

Dim conStr As String = "Data Source=localHost;Initial Catalog=test;Integrated Security=True"

' Define ADO.NET objects.

Dim updateSQL As String

updateSQL = "SET IDENTITY\_INSERT Customer\_T ON SET ANSI\_WARNINGS OFF "

updateSQL &= "UPDATE Customer\_T SET "

updateSQL &= "CustomerName=@CustomerName, CustomerAddress=@CustomerAddress, CustomerCity=@CustomerCity, CustomerState=@CustomerState, CustomerPostalCode=@CustomerPostalCode "

updateSQL &= "WHERE CustomerID=@CustomerID"

Dim con As New SqlConnection(conStr)

Dim cmd As New SqlCommand(updateSQL, con)

' Add the parameters.

cmd.Parameters.AddWithValue("@CustomerID", custId.Text)

cmd.Parameters.AddWithValue("@CustomerName", custNme.Text)

cmd.Parameters.AddWithValue("@CustomerAddress", custAdrs.Text)

cmd.Parameters.AddWithValue("@CustomerCity", custCty.Text)

cmd.Parameters.AddWithValue("@CustomerState", custState.Text)

cmd.Parameters.AddWithValue("@CustomerPostalCode", custPstlCde.Text)

' Try to open database and execute the update.

Dim updated As Integer = 0

Try

con.Open()

updated = cmd.ExecuteNonQuery()

lblResults.Text = updated.ToString() & " record updated."

Catch err As Exception

lblResults.Text = "Error updating author. "

lblResults.Text &= err.Message

Finally

con.Close()

End Try

' If the update succeeded, refresh the author list.

If updated > 0 Then

Dim html As New StringBuilder()

html = ShowData()

'Append the HTML string to Placeholder.

tableHolder.Controls.Add(New Literal() With {

.Text = html.ToString()

})

End If

End Sub

Private Function GetData() As DataTable

Dim constr As String = "Data Source=localHost;Initial Catalog=test;Integrated Security=True"

Using con As New SqlConnection(constr)

Using cmd As New SqlCommand("SELECT \* FROM [test].[dbo].[Customer\_T]")

Using sda As New SqlDataAdapter()

cmd.Connection = con

sda.SelectCommand = cmd

Using dt As New DataTable()

sda.Fill(dt)

Return dt

End Using

End Using

End Using

End Using

End Function

Private Function ShowData()

'Populating a DataTable from database.

Dim dt As DataTable = Me.GetData()

'Building an HTML string.

Dim html As New StringBuilder()

'Table start.

html.Append("<table border = '1'>")

'Building the Header row.

html.Append("<tr>")

For Each column As DataColumn In dt.Columns

html.Append("<th>")

html.Append(column.ColumnName)

html.Append("</th>")

Next

html.Append("</tr>")

'Building the Data rows.

For Each row As DataRow In dt.Rows

html.Append("<tr>")

For Each column As DataColumn In dt.Columns

html.Append("<td>")

html.Append(row(column.ColumnName))

html.Append("</td>")

Next

html.Append("</tr>")

Next

'Table end.

html.Append("</table>")

Return html

End Function

End Class

Result:

Page Load:

Graphical user interface, table

Description automatically generated

Table

Description automatically generated

Record Added:

Table

Description automatically generated

Table

Description automatically generated

Record Removed:

Graphical user interface, text, table

Description automatically generated with medium confidence

Table

Description automatically generated

Updating Record:

Table

Description automatically generated

Table

Description automatically generated