Imports System.Data.SqlClient

Imports System.Configuration

Public Class DatabaseHelper

Private Shared connectionString As String = "Data Source=DESKTOP-Q8I3LA3\SQLEXPRESS;Initial Catalog=QLSV;Integrated Security=True;TrustServerCertificate=True"

Public Shared Function GetConnection() As SqlConnection

Return New SqlConnection(connectionString)

End Function

Public Shared Function ExecuteQuery(query As String, parameters As SqlParameter()) As DataTable

Dim dt As New DataTable()

Using conn As SqlConnection = GetConnection()

Using cmd As New SqlCommand(query, conn)

If parameters IsNot Nothing Then

cmd.Parameters.AddRange(parameters)

End If

Using adapter As New SqlDataAdapter(cmd)

adapter.Fill(dt)

End Using

End Using

End Using

Return dt

End Function

Public Shared Function ExecuteNonQuery(query As String, parameters As SqlParameter()) As Integer

Using conn As SqlConnection = GetConnection()

conn.Open()

Using cmd As New SqlCommand(query, conn)

If parameters IsNot Nothing Then

cmd.Parameters.AddRange(parameters)

End If

Return cmd.ExecuteNonQuery()

End Using

End Using

End Function

Public Shared Function ExecuteScalar(query As String, parameters As SqlParameter()) As Object

Using conn As SqlConnection = GetConnection()

conn.Open()

Using cmd As New SqlCommand(query, conn)

If parameters IsNot Nothing Then

cmd.Parameters.AddRange(parameters)

End If

Return cmd.ExecuteScalar()

End Using

End Using

End Function

End Class

Imports System.Drawing

Imports System.Windows.Forms

Public Class MainForm

Inherits Form

Private WithEvents btnStudent As Button

Private WithEvents btnClass As Button

Private WithEvents btnSubject As Button

Private WithEvents btnScore As Button

Private WithEvents btnReport As Button

Private WithEvents btnExit As Button

Private lblTitle As Label

Private pnlMain As Panel

Public Sub New()

InitializeComponent()

SetupForm()

End Sub

Private Sub InitializeComponent()

' Thiết lập form chính

Me.Text = "Hệ thống quản lý sinh viên"

Me.Size = New Size(1000, 800)

Me.StartPosition = FormStartPosition.CenterScreen

Me.BackColor = Color.FromArgb(240, 248, 255)

Me.FormBorderStyle = FormBorderStyle.FixedSingle

Me.MaximizeBox = False

' Tạo panel chính

pnlMain = New Panel()

pnlMain.Dock = DockStyle.Fill

pnlMain.BackColor = Color.FromArgb(240, 248, 255)

Me.Controls.Add(pnlMain)

' Tạo label tiêu đề

lblTitle = New Label()

lblTitle.Text = "HỆ THỐNG QUẢN LÝ SINH VIÊN"

lblTitle.Font = New Font("Segoe UI", 24, FontStyle.Bold)

lblTitle.ForeColor = Color.FromArgb(25, 118, 210)

lblTitle.AutoSize = True

lblTitle.Location = New Point(200, 30)

pnlMain.Controls.Add(lblTitle)

' Tạo các nút bấm

CreateButtons()

End Sub

Private Sub CreateButtons()

Dim buttonWidth As Integer = 250

Dim buttonHeight As Integer = 60

Dim startX As Integer = 325

Dim startY As Integer = 120

Dim spacing As Integer = 80

' Nút quản lý sinh viên

btnStudent = CreateStyledButton("Quản lý sinh viên", startX, startY, buttonWidth, buttonHeight)

btnStudent.BackColor = Color.FromArgb(76, 175, 80)

btnStudent.ForeColor = Color.White

pnlMain.Controls.Add(btnStudent)

' Nút quản lý lớp học

btnClass = CreateStyledButton("Quản lý lớp học", startX, startY + spacing, buttonWidth, buttonHeight)

btnClass.BackColor = Color.FromArgb(33, 150, 243)

btnClass.ForeColor = Color.White

pnlMain.Controls.Add(btnClass)

' Nút quản lý môn học

btnSubject = CreateStyledButton("Quản lý môn học", startX, startY + spacing \* 2, buttonWidth, buttonHeight)

btnSubject.BackColor = Color.FromArgb(255, 152, 0)

btnSubject.ForeColor = Color.White

pnlMain.Controls.Add(btnSubject)

' Nút quản lý điểm

btnScore = CreateStyledButton("Quản lý điểm", startX, startY + spacing \* 3, buttonWidth, buttonHeight)

btnScore.BackColor = Color.FromArgb(156, 39, 176)

btnScore.ForeColor = Color.White

pnlMain.Controls.Add(btnScore)

' Nút báo cáo

btnReport = CreateStyledButton("Báo cáo thống kê", startX, startY + spacing \* 4, buttonWidth, buttonHeight)

btnReport.BackColor = Color.FromArgb(244, 67, 54)

btnReport.ForeColor = Color.White

pnlMain.Controls.Add(btnReport)

' Nút thoát

btnExit = CreateStyledButton("Thoát", startX, startY + spacing \* 5, buttonWidth, buttonHeight)

btnExit.BackColor = Color.FromArgb(96, 125, 139)

btnExit.ForeColor = Color.White

pnlMain.Controls.Add(btnExit)

End Sub

Private Function CreateStyledButton(text As String, x As Integer, y As Integer, width As Integer, height As Integer) As Button

Dim btn As New Button()

btn.Text = text

btn.Location = New Point(x, y)

btn.Size = New Size(width, height)

btn.Font = New Font("Segoe UI", 12, FontStyle.Bold)

btn.FlatStyle = FlatStyle.Flat

btn.FlatAppearance.BorderSize = 0

btn.Cursor = Cursors.Hand

' Hiệu ứng hover

AddHandler btn.MouseEnter, Sub(sender, e)

Dim r As Integer = Math.Max(0, btn.BackColor.R - 20)

Dim g As Integer = Math.Max(0, btn.BackColor.G - 20)

Dim b As Integer = Math.Max(0, btn.BackColor.B - 20)

btn.BackColor = Color.FromArgb(r, g, b)

End Sub

AddHandler btn.MouseLeave, Sub(sender, e)

Select Case btn.Text

Case "Quản lý sinh viên"

btn.BackColor = Color.FromArgb(76, 175, 80)

Case "Quản lý lớp học"

btn.BackColor = Color.FromArgb(33, 150, 243)

Case "Quản lý môn học"

btn.BackColor = Color.FromArgb(255, 152, 0)

Case "Quản lý điểm"

btn.BackColor = Color.FromArgb(156, 39, 176)

Case "Báo cáo thống kê"

btn.BackColor = Color.FromArgb(244, 67, 54)

Case "Thoát"

btn.BackColor = Color.FromArgb(96, 125, 139)

End Select

End Sub

Return btn

End Function

Private Sub SetupForm()

' Thêm icon và thông tin

Dim lblInfo As New Label()

lblInfo.Font = New Font("Segoe UI", 10, FontStyle.Italic)

lblInfo.ForeColor = Color.FromArgb(96, 125, 139)

lblInfo.AutoSize = True

lblInfo.Location = New Point(350, 620)

pnlMain.Controls.Add(lblInfo)

End Sub

Private Sub btnStudent\_Click(sender As Object, e As EventArgs) Handles btnStudent.Click

Dim studentForm As New StudentForm()

studentForm.ShowDialog()

End Sub

Private Sub btnClass\_Click(sender As Object, e As EventArgs) Handles btnClass.Click

Dim classForm As New ClassForm()

classForm.ShowDialog()

End Sub

Private Sub btnSubject\_Click(sender As Object, e As EventArgs) Handles btnSubject.Click

Dim subjectForm As New SubjectForm()

subjectForm.ShowDialog()

End Sub

Private Sub btnScore\_Click(sender As Object, e As EventArgs) Handles btnScore.Click

Dim scoreForm As New ScoreForm()

scoreForm.ShowDialog()

End Sub

Private Sub btnReport\_Click(sender As Object, e As EventArgs) Handles btnReport.Click

Dim reportForm As New ReportForm()

reportForm.ShowDialog()

End Sub

Private Sub btnExit\_Click(sender As Object, e As EventArgs) Handles btnExit.Click

If MessageBox.Show("Bạn có chắc chắn muốn thoát?", "Xác nhận", MessageBoxButtons.YesNo, MessageBoxIcon.Question) = DialogResult.Yes Then

Application.Exit()

End If

End Sub

End Class

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