**LAB 6:**

**WINFORM KẾT NỐI CƠ SỞ DỮ LIỆU NÂNG CAO**

**Phần cơ sở dữ liệu**

**1. Tạo cơ sở dữ liệu**

SELECT TOP (1000) [MaXB]

,[TenXB]

,[DiaChi]

FROM [QuanLyBanSach].[dbo].[NhaXuatBan]

CREATE DATABASE QuanLyBanSach;

GO

USE QuanLyBanSach;

CREATE TABLE NhaXuatBan(

MaXB CHAR(10) PRIMARY KEY,

TenXB NVARCHAR(100),

DiaChi NVARCHAR(500)

);

CREATE TABLE Sach(

MaSach CHAR(10) PRIMARY KEY,

TenSach NVARCHAR(300),

MaXB CHAR(10) FOREIGN KEY REFERENCES NhaXuatBan(MaXB),

TacGia NVARCHAR(100),

NamXB DATETIME,

GhiChu NVARCHAR(500)

);

**2. thêm dữ liệu**

INSERT INTO NhaXuatBan VALUES

('001', N'Học viện X-Men', N'Quang Trung, Hà Nội'),

('002', N'Khoa học xã hội', N'Trần Phú, Hà Nội'),

('003', N'Viện văn hóa thể thao', N'Hai Bà Trưng, Hà Nội');

INSERT INTO Sach VALUES

('1', N'Học lập trình C#', '001', N'Nguyễn Lưu', '2022-01-01', N'Không'),

('2', N'Lập trình ASP.NET Core', '002', N'Trọng Khải', '2019-01-01', N'Không'),

('3', N'Lập trình Scratch', '002', N'Bá Trọng', '2022-01-01', N'Không');

**3. thêm thủ tục**

-- 1. Hiển thị danh sách nhà xuất bản

CREATE PROC HienThiXB

AS

SELECT \* FROM NhaXuatBan;

GO

-- 2. Hiển thị chi tiết theo mã

CREATE PROC HienThiChiTietXB @MaXB CHAR(10)

AS

SELECT \* FROM NhaXuatBan WHERE MaXB = @MaXB;

GO

-- 3. Thêm dữ liệu

CREATE PROC ThemDuLieu @MaXB CHAR(10), @TenXB NVARCHAR(100), @DiaChi NVARCHAR(500)

AS

INSERT INTO NhaXuatBan VALUES (@MaXB, @TenXB, @DiaChi);

GO

-- 4. Sửa dữ liệu

CREATE PROC SuaDuLieu @MaXB CHAR(10), @TenXB NVARCHAR(100), @DiaChi NVARCHAR(500)

AS

UPDATE NhaXuatBan SET TenXB=@TenXB, DiaChi=@DiaChi WHERE MaXB=@MaXB;

GO

-- 5. Xóa dữ liệu

CREATE PROC XoaDuLieu @MaXB CHAR(10)

AS

DELETE FROM NhaXuatBan WHERE MaXB=@MaXB;

GO

**Phần code**

1. **Code app.config để kết nối cơ sở dữ liệu**

<?xml version="1.0" encoding="utf-8" ?>

<configuration>

<connectionStrings>

<add name="strCon"

connectionString="Data Source=BUIDACQUI\MSSQLSERVER05;Initial Catalog=QuanLyBanSach;User ID=sa;Password=123;Encrypt=False;"

providerName="System.Data.SqlClient"/>

</connectionStrings>

<startup>

<supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.7.2"/>

</startup>

</configuration>

1. **Code form1.cs**

using System;

using System.Data;

using System.Data.SqlClient;

using System.Windows.Forms;

using System.Configuration;

namespace Lap6

{

public partial class Form1 : Form

{

SqlConnection sqlCon = null;

string strCon = ConfigurationManager.ConnectionStrings["strCon"].ConnectionString;

public Form1()

{

InitializeComponent();

}

private void MoKetNoi()

{

if (sqlCon == null)

sqlCon = new SqlConnection(strCon);

if (sqlCon.State == ConnectionState.Closed)

sqlCon.Open();

}

private void DongKetNoi()

{

if (sqlCon != null && sqlCon.State == ConnectionState.Open)

sqlCon.Close();

}

private void Form1\_Load(object sender, EventArgs e)

{

HienThiDanhSachXB();

}

private void HienThiDanhSachXB()

{

MoKetNoi();

SqlCommand cmd = new SqlCommand("HienThiXB", sqlCon);

cmd.CommandType = CommandType.StoredProcedure;

SqlDataReader reader = cmd.ExecuteReader();

lsvDanhSach.Items.Clear();

while (reader.Read())

{

ListViewItem item = new ListViewItem(reader["MaXB"].ToString());

item.SubItems.Add(reader["TenXB"].ToString());

item.SubItems.Add(reader["DiaChi"].ToString());

lsvDanhSach.Items.Add(item);

}

reader.Close();

DongKetNoi();

}

private void btnThem\_Click(object sender, EventArgs e)

{

MoKetNoi();

SqlCommand cmd = new SqlCommand("ThemDuLieu", sqlCon);

cmd.CommandType = CommandType.StoredProcedure;

cmd.Parameters.AddWithValue("@MaXB", txtMaXB.Text.Trim());

cmd.Parameters.AddWithValue("@TenXB", txtTenXB.Text.Trim());

cmd.Parameters.AddWithValue("@DiaChi", txtDiaChi.Text.Trim());

cmd.ExecuteNonQuery();

DongKetNoi();

HienThiDanhSachXB();

MessageBox.Show("Thêm thành công!");

}

private void btnSua\_Click(object sender, EventArgs e)

{

MoKetNoi();

SqlCommand cmd = new SqlCommand("SuaDuLieu", sqlCon);

cmd.CommandType = CommandType.StoredProcedure;

cmd.Parameters.AddWithValue("@MaXB", txtMaXB.Text.Trim());

cmd.Parameters.AddWithValue("@TenXB", txtTenXB.Text.Trim());

cmd.Parameters.AddWithValue("@DiaChi", txtDiaChi.Text.Trim());

cmd.ExecuteNonQuery();

DongKetNoi();

HienThiDanhSachXB();

MessageBox.Show("Sửa thành công!");

}

private void btnXoa\_Click(object sender, EventArgs e)

{

MoKetNoi();

SqlCommand cmd = new SqlCommand("XoaDuLieu", sqlCon);

cmd.CommandType = CommandType.StoredProcedure;

cmd.Parameters.AddWithValue("@MaXB", txtMaXB.Text.Trim());

cmd.ExecuteNonQuery();

DongKetNoi();

HienThiDanhSachXB();

MessageBox.Show("Xóa thành công!");

}

private void lsvDanhSach\_SelectedIndexChanged(object sender, EventArgs e)

{

if (lsvDanhSach.SelectedItems.Count == 0) return;

ListViewItem item = lsvDanhSach.SelectedItems[0];

txtMaXB.Text = item.SubItems[0].Text;

txtTenXB.Text = item.SubItems[1].Text;

txtDiaChi.Text = item.SubItems[2].Text;

}

}

}

1. **Code Form1.designer.cs**

namespace Lap6

{

partial class Form1

{

/// <summary>

/// Required designer variable.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Clean up any resources being used.

/// </summary>

/// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

this.lblMaXB = new System.Windows.Forms.Label();

this.lblTenXB = new System.Windows.Forms.Label();

this.lblDiaChi = new System.Windows.Forms.Label();

this.txtMaXB = new System.Windows.Forms.TextBox();

this.txtTenXB = new System.Windows.Forms.TextBox();

this.txtDiaChi = new System.Windows.Forms.TextBox();

this.btnThem = new System.Windows.Forms.Button();

this.btnSua = new System.Windows.Forms.Button();

this.btnXoa = new System.Windows.Forms.Button();

this.lsvDanhSach = new System.Windows.Forms.ListView();

this.colMaXB = new System.Windows.Forms.ColumnHeader();

this.colTenXB = new System.Windows.Forms.ColumnHeader();

this.colDiaChi = new System.Windows.Forms.ColumnHeader();

this.SuspendLayout();

//

// lblMaXB

//

this.lblMaXB.AutoSize = true;

this.lblMaXB.Location = new System.Drawing.Point(30, 30);

this.lblMaXB.Name = "lblMaXB";

this.lblMaXB.Size = new System.Drawing.Size(76, 20);

this.lblMaXB.TabIndex = 0;

this.lblMaXB.Text = "Mã NXB:";

//

// lblTenXB

//

this.lblTenXB.AutoSize = true;

this.lblTenXB.Location = new System.Drawing.Point(30, 80);

this.lblTenXB.Name = "lblTenXB";

this.lblTenXB.Size = new System.Drawing.Size(85, 20);

this.lblTenXB.TabIndex = 1;

this.lblTenXB.Text = "Tên NXB:";

//

// lblDiaChi

//

this.lblDiaChi.AutoSize = true;

this.lblDiaChi.Location = new System.Drawing.Point(30, 130);

this.lblDiaChi.Name = "lblDiaChi";

this.lblDiaChi.Size = new System.Drawing.Size(66, 20);

this.lblDiaChi.TabIndex = 2;

this.lblDiaChi.Text = "Địa chỉ:";

//

// txtMaXB

//

this.txtMaXB.Location = new System.Drawing.Point(120, 27);

this.txtMaXB.Name = "txtMaXB";

this.txtMaXB.Size = new System.Drawing.Size(200, 27);

this.txtMaXB.TabIndex = 3;

//

// txtTenXB

//

this.txtTenXB.Location = new System.Drawing.Point(120, 77);

this.txtTenXB.Name = "txtTenXB";

this.txtTenXB.Size = new System.Drawing.Size(200, 27);

this.txtTenXB.TabIndex = 4;

//

// txtDiaChi

//

this.txtDiaChi.Location = new System.Drawing.Point(120, 127);

this.txtDiaChi.Multiline = true;

this.txtDiaChi.Name = "txtDiaChi";

this.txtDiaChi.Size = new System.Drawing.Size(200, 70);

this.txtDiaChi.TabIndex = 5;

//

// btnThem

//

this.btnThem.Location = new System.Drawing.Point(30, 220);

this.btnThem.Name = "btnThem";

this.btnThem.Size = new System.Drawing.Size(90, 35);

this.btnThem.TabIndex = 6;

this.btnThem.Text = "Thêm";

this.btnThem.UseVisualStyleBackColor = true;

this.btnThem.Click += new System.EventHandler(this.btnThem\_Click);

//

// btnSua

//

this.btnSua.Location = new System.Drawing.Point(140, 220);

this.btnSua.Name = "btnSua";

this.btnSua.Size = new System.Drawing.Size(90, 35);

this.btnSua.TabIndex = 7;

this.btnSua.Text = "Sửa";

this.btnSua.UseVisualStyleBackColor = true;

this.btnSua.Click += new System.EventHandler(this.btnSua\_Click);

//

// btnXoa

//

this.btnXoa.Location = new System.Drawing.Point(250, 220);

this.btnXoa.Name = "btnXoa";

this.btnXoa.Size = new System.Drawing.Size(90, 35);

this.btnXoa.TabIndex = 8;

this.btnXoa.Text = "Xóa";

this.btnXoa.UseVisualStyleBackColor = true;

this.btnXoa.Click += new System.EventHandler(this.btnXoa\_Click);

//

// lsvDanhSach

//

this.lsvDanhSach.Columns.AddRange(new System.Windows.Forms.ColumnHeader[] {

this.colMaXB,

this.colTenXB,

this.colDiaChi});

this.lsvDanhSach.FullRowSelect = true;

this.lsvDanhSach.GridLines = true;

this.lsvDanhSach.Location = new System.Drawing.Point(350, 27);

this.lsvDanhSach.Name = "lsvDanhSach";

this.lsvDanhSach.Size = new System.Drawing.Size(500, 230);

this.lsvDanhSach.TabIndex = 9;

this.lsvDanhSach.UseCompatibleStateImageBehavior = false;

this.lsvDanhSach.View = System.Windows.Forms.View.Details;

this.lsvDanhSach.SelectedIndexChanged += new System.EventHandler(this.lsvDanhSach\_SelectedIndexChanged);

//

// colMaXB

//

this.colMaXB.Text = "Mã NXB";

this.colMaXB.Width = 100;

//

// colTenXB

//

this.colTenXB.Text = "Tên NXB";

this.colTenXB.Width = 200;

//

// colDiaChi

//

this.colDiaChi.Text = "Địa chỉ";

this.colDiaChi.Width = 200;

//

// Form1

//

this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 20F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(880, 300);

this.Controls.Add(this.lsvDanhSach);

this.Controls.Add(this.btnXoa);

this.Controls.Add(this.btnSua);

this.Controls.Add(this.btnThem);

this.Controls.Add(this.txtDiaChi);

this.Controls.Add(this.txtTenXB);

this.Controls.Add(this.txtMaXB);

this.Controls.Add(this.lblDiaChi);

this.Controls.Add(this.lblTenXB);

this.Controls.Add(this.lblMaXB);

this.Name = "Form1";

this.Text = "QUẢN LÝ NHÀ XUẤT BẢN - LAB 6";

this.Load += new System.EventHandler(this.Form1\_Load);

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.Label lblMaXB;

private System.Windows.Forms.Label lblTenXB;

private System.Windows.Forms.Label lblDiaChi;

private System.Windows.Forms.TextBox txtMaXB;

private System.Windows.Forms.TextBox txtTenXB;

private System.Windows.Forms.TextBox txtDiaChi;

private System.Windows.Forms.Button btnThem;

private System.Windows.Forms.Button btnSua;

private System.Windows.Forms.Button btnXoa;

private System.Windows.Forms.ListView lsvDanhSach;

private System.Windows.Forms.ColumnHeader colMaXB;

private System.Windows.Forms.ColumnHeader colTenXB;

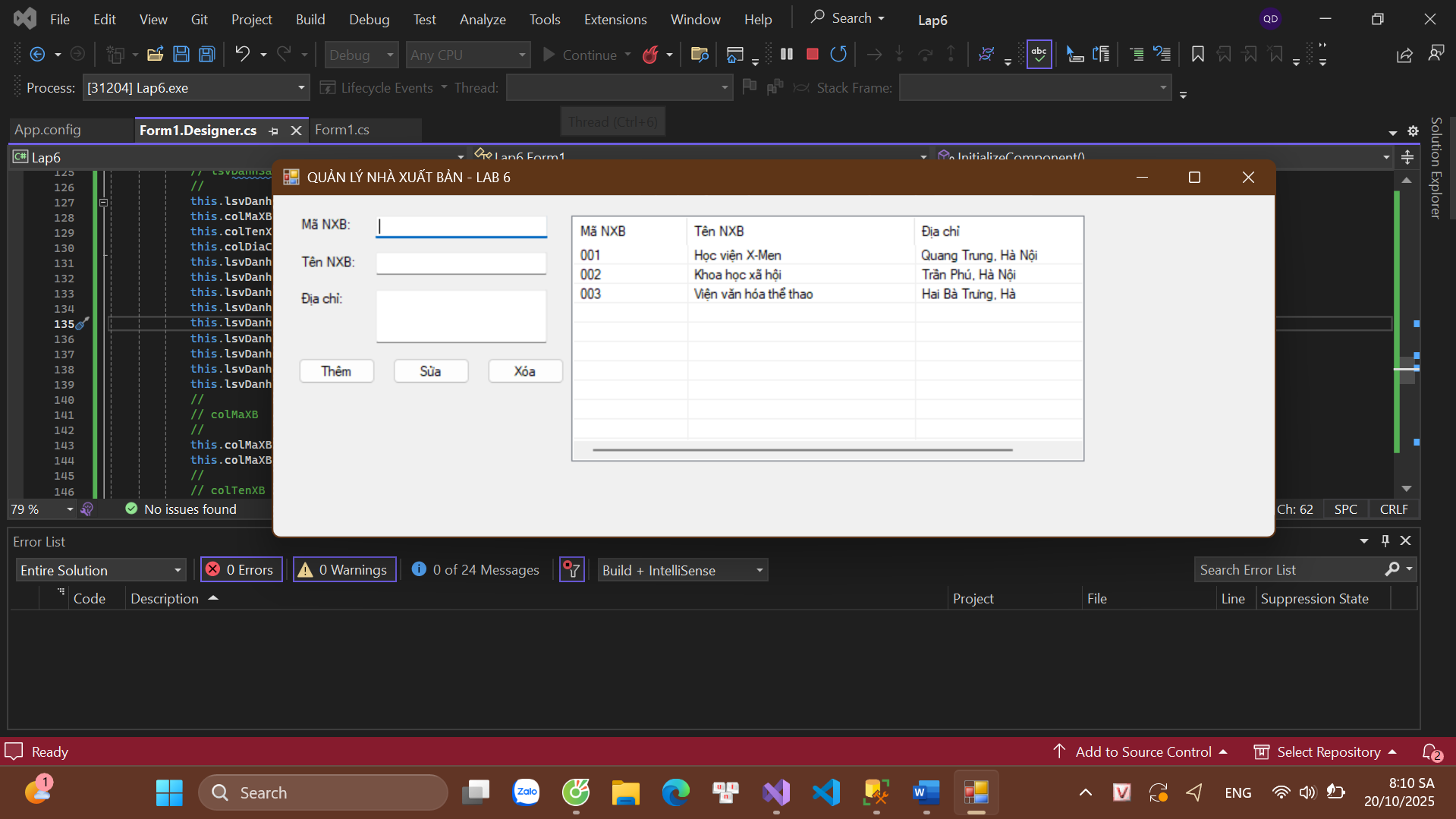
private System.Windows.Forms.ColumnHeader colDiaChi;

}

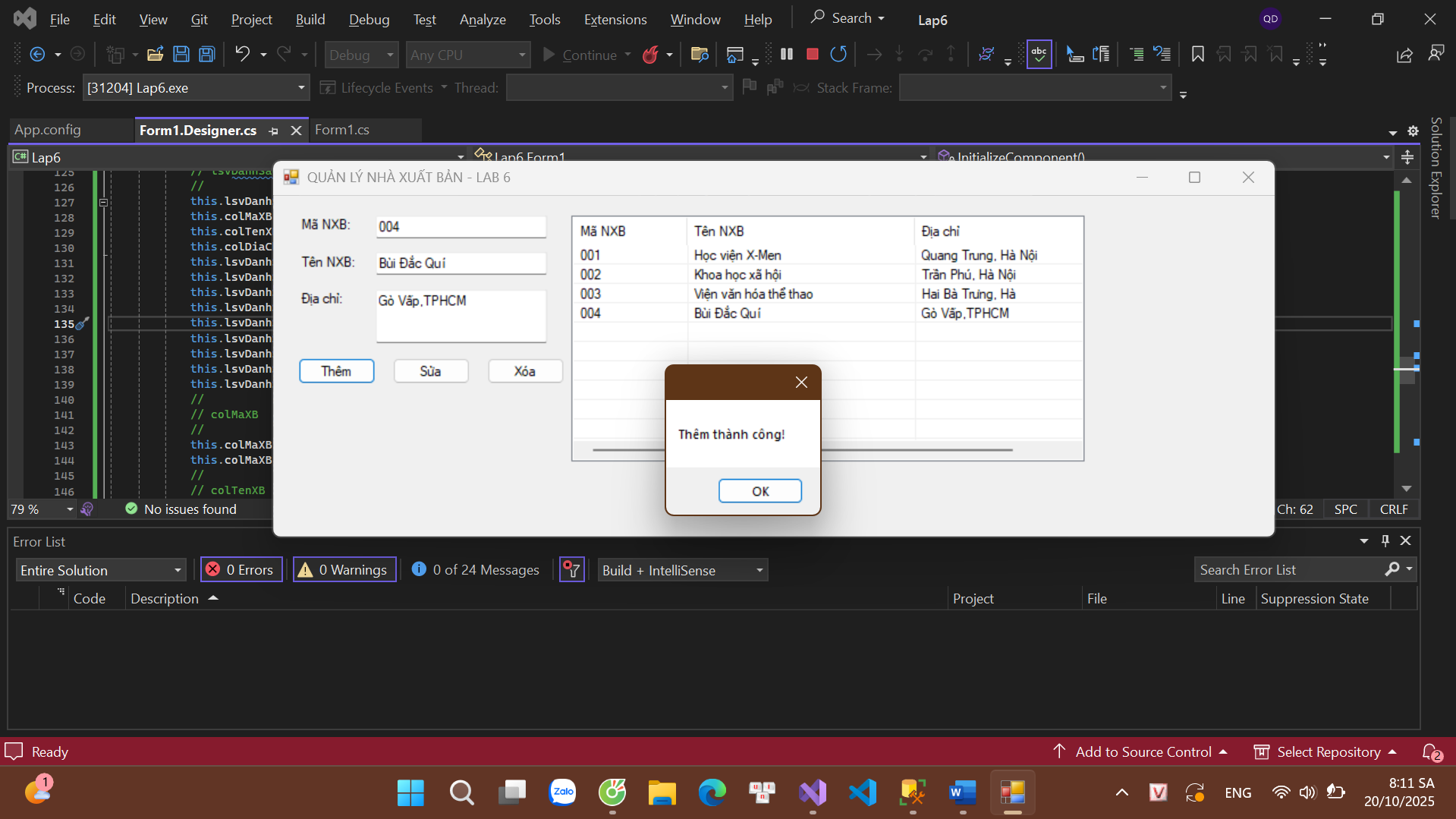
}

**Phần chạy thử**

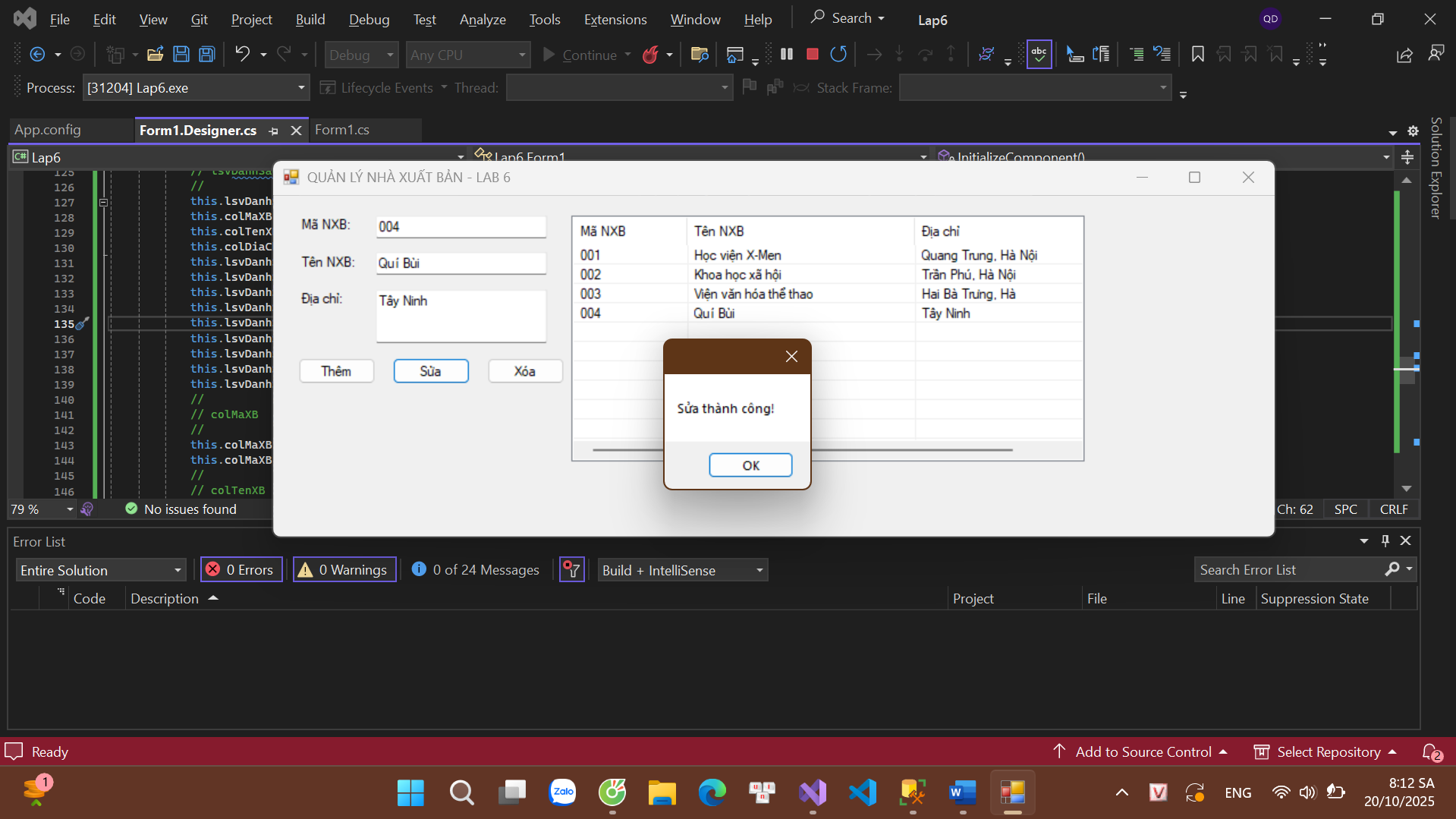
1. **Giao diện**

****

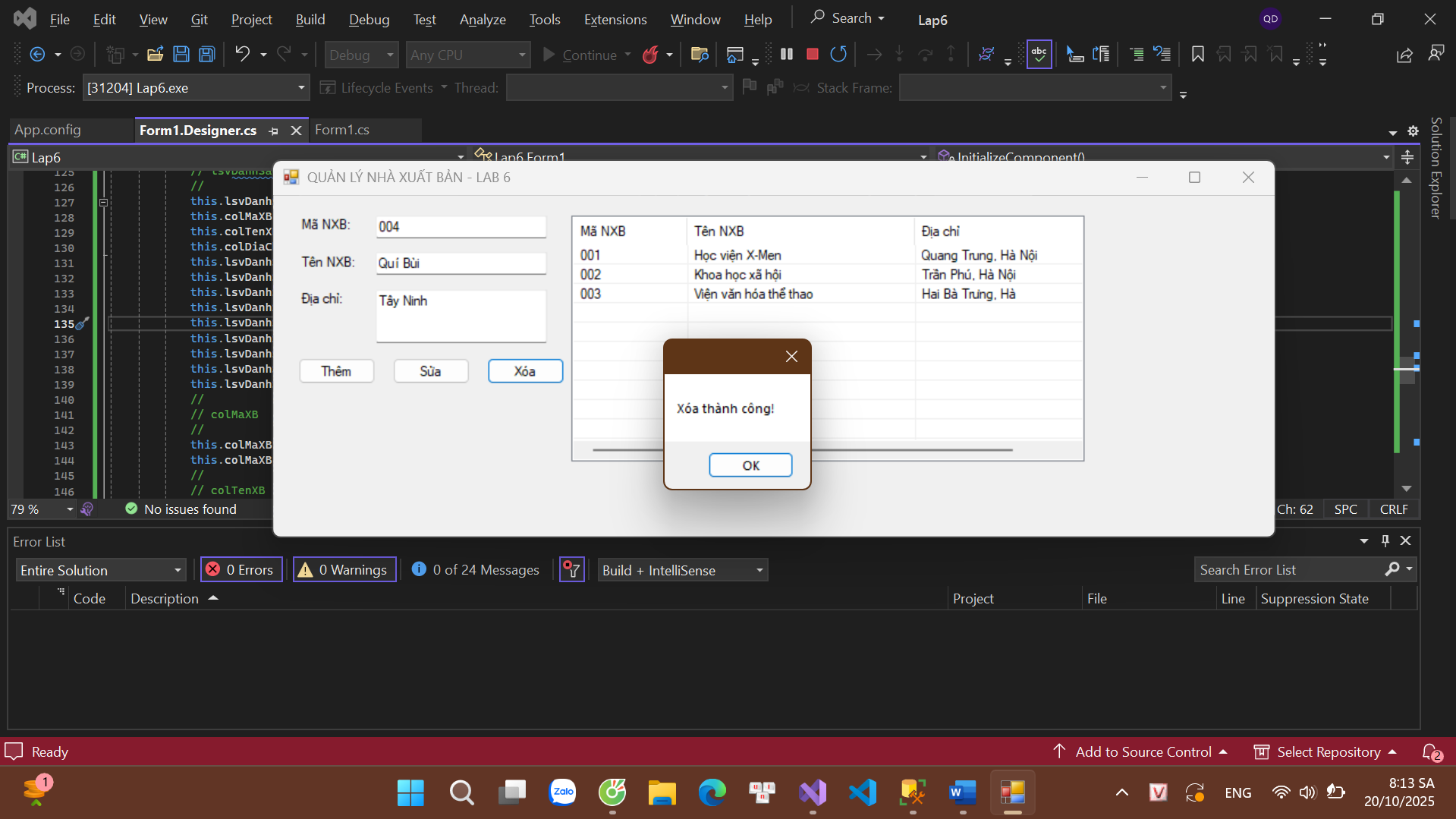
1. **Thêm**

****

1. **Sửa**

****

1. **Xóa**

****