B. Nội dung

Thực hành 1: Thiết kế và lập trình ứng dụng Winform theo mô tả sau:

**Form1.cs**

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

using System.Windows.Forms;

namespace WinFormsApp1

{

public partial class Form1 : Form

{

public class MonAn

{

public string TenMon { get; set; }

public int SoLuong { get; set; }

}

private List<MonAn> danhSachMon = new List<MonAn>();

public Form1()

{

InitializeComponent();

}

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

{

cbBan.Items.AddRange(new string[] { "Bàn 1", "Bàn 2", "Bàn 3", "Bàn 4", "Bàn 5" });

cbBan.SelectedIndex = 0;

lvMonAn.View = View.Details;

lvMonAn.Columns.Add("Tên món", 200);

lvMonAn.Columns.Add("Số lượng", 100);

lvMonAn.FullRowSelect = true;

lvMonAn.GridLines = true;

foreach (Control ctl in groupMonAn.Controls)

{

if (ctl is Button btn)

{

btn.Click += BtnMon\_Click;

}

}

}

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

{

Button btn = sender as Button;

string tenMon = btn.Text;

var mon = danhSachMon.FirstOrDefault(m => m.TenMon == tenMon);

if (mon != null)

{

mon.SoLuong++;

}

else

{

danhSachMon.Add(new MonAn { TenMon = tenMon, SoLuong = 1 });

}

CapNhatListView();

}

private void CapNhatListView()

{

lvMonAn.Items.Clear();

foreach (var mon in danhSachMon)

{

var item = new ListViewItem(mon.TenMon);

item.SubItems.Add(mon.SoLuong.ToString());

lvMonAn.Items.Add(item);

}

}

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

{

danhSachMon.Clear();

lvMonAn.Items.Clear();

}

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

{

if (cbBan.SelectedItem == null)

{

MessageBox.Show("Vui lòng chọn bàn trước khi order!");

return;

}

if (danhSachMon.Count == 0)

{

MessageBox.Show("Chưa có món nào được chọn!");

return;

}

string tenBan = cbBan.SelectedItem.ToString();

string filePath = "order.txt";

using (StreamWriter sw = new StreamWriter(filePath, true))

{

sw.WriteLine($"Bàn: {tenBan} - Thời gian: {DateTime.Now}");

foreach (var mon in danhSachMon)

sw.WriteLine($"{mon.TenMon}\t{mon.SoLuong}");

}

MessageBox.Show("Đơn hàng đã được gửi xuống bếp (đã lưu file order.txt)");

}

}

}

**designer**

namespace WinFormsApp1

{

partial class Form1

{

private System.ComponentModel.IContainer components = null;

protected override void Dispose(bool disposing)

{

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

{

components.Dispose();

}

base.Dispose(disposing);

}

private void InitializeComponent()

{

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

this.groupMonAn = new System.Windows.Forms.GroupBox();

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

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

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

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

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

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

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

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

this.btn7up = new System.Windows.Forms.Button();

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

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

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

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

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

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

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

this.cbBan = new System.Windows.Forms.ComboBox();

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

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

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

this.groupMonAn.SuspendLayout();

this.SuspendLayout();

this.labelTitle.BackColor = System.Drawing.Color.Green;

this.labelTitle.Font = new System.Drawing.Font("Microsoft Sans Serif", 14F, System.Drawing.FontStyle.Bold);

this.labelTitle.ForeColor = System.Drawing.Color.White;

this.labelTitle.Location = new System.Drawing.Point(100, 20);

this.labelTitle.Name = "labelTitle";

this.labelTitle.Size = new System.Drawing.Size(400, 40);

this.labelTitle.TabIndex = 0;

this.labelTitle.Text = "Quán ăn nhanh Hưng Thịnh";

this.labelTitle.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;

this.groupMonAn.Controls.Add(this.btnBunBoHue);

this.groupMonAn.Controls.Add(this.btnDuiGaRan);

this.groupMonAn.Controls.Add(this.btnBugerBoNuong);

this.groupMonAn.Controls.Add(this.btnCafe);

this.groupMonAn.Controls.Add(this.btnPepsi);

this.groupMonAn.Controls.Add(this.btnCaVienChien);

this.groupMonAn.Controls.Add(this.btnMyXaoHaiSan);

this.groupMonAn.Controls.Add(this.btnCam);

this.groupMonAn.Controls.Add(this.btn7up);

this.groupMonAn.Controls.Add(this.btnKhoaiTayChien);

this.groupMonAn.Controls.Add(this.btnOcRangMuoi);

this.groupMonAn.Controls.Add(this.btnLipton);

this.groupMonAn.Controls.Add(this.btnCoca);

this.groupMonAn.Controls.Add(this.btnBanhMiOpLa);

this.groupMonAn.Controls.Add(this.btnComChienTrung);

this.groupMonAn.Font = new System.Drawing.Font("Microsoft Sans Serif", 10F);

this.groupMonAn.Location = new System.Drawing.Point(30, 70);

this.groupMonAn.Name = "groupMonAn";

this.groupMonAn.Size = new System.Drawing.Size(550, 200);

this.groupMonAn.TabIndex = 1;

this.groupMonAn.TabStop = false;

this.groupMonAn.Text = "Danh sách món ăn:";

int x = 20, y = 30, w = 120, h = 35, spacing = 10;

this.btnComChienTrung.Location = new System.Drawing.Point(20, 30);

this.btnComChienTrung.Size = new System.Drawing.Size(120, 35);

this.btnComChienTrung.Text = "Cơm chiên trứng";

this.btnBanhMiOpLa.Location = new System.Drawing.Point(150, 30);

this.btnBanhMiOpLa.Size = new System.Drawing.Size(120, 35);

this.btnBanhMiOpLa.Text = "Bánh mì ốp la";

this.btnCoca.Location = new System.Drawing.Point(280, 30);

this.btnCoca.Size = new System.Drawing.Size(120, 35);

this.btnCoca.Text = "Coca";

this.btnLipton.Location = new System.Drawing.Point(410, 30);

this.btnLipton.Size = new System.Drawing.Size(120, 35);

this.btnLipton.Text = "Lipton";

this.btnOcRangMuoi.Location = new System.Drawing.Point(20, 70);

this.btnOcRangMuoi.Size = new System.Drawing.Size(120, 35);

this.btnOcRangMuoi.Text = "Ốc rang muối";

this.btnKhoaiTayChien.Location = new System.Drawing.Point(150, 70);

this.btnKhoaiTayChien.Size = new System.Drawing.Size(120, 35);

this.btnKhoaiTayChien.Text = "Khoai tây chiên";

this.btn7up.Location = new System.Drawing.Point(280, 70);

this.btn7up.Size = new System.Drawing.Size(120, 35);

this.btn7up.Text = "7 up";

this.btnCam.Location = new System.Drawing.Point(410, 70);

this.btnCam.Size = new System.Drawing.Size(120, 35);

this.btnCam.Text = "Cam";

this.btnMyXaoHaiSan.Location = new System.Drawing.Point(20, 110);

this.btnMyXaoHaiSan.Size = new System.Drawing.Size(120, 35);

this.btnMyXaoHaiSan.Text = "Mỳ xào hải sản";

this.btnCaVienChien.Location = new System.Drawing.Point(150, 110);

this.btnCaVienChien.Size = new System.Drawing.Size(120, 35);

this.btnCaVienChien.Text = "Cá viên chiên";

this.btnPepsi.Location = new System.Drawing.Point(280, 110);

this.btnPepsi.Size = new System.Drawing.Size(120, 35);

this.btnPepsi.Text = "Pepsi";

this.btnCafe.Location = new System.Drawing.Point(410, 110);

this.btnCafe.Size = new System.Drawing.Size(120, 35);

this.btnCafe.Text = "Cafe";

this.btnBugerBoNuong.Location = new System.Drawing.Point(20, 150);

this.btnBugerBoNuong.Size = new System.Drawing.Size(120, 35);

this.btnBugerBoNuong.Text = "Buger bò nướng";

this.btnDuiGaRan.Location = new System.Drawing.Point(150, 150);

this.btnDuiGaRan.Size = new System.Drawing.Size(120, 35);

this.btnDuiGaRan.Text = "Đùi gà rán";

this.btnBunBoHue.Location = new System.Drawing.Point(280, 150);

this.btnBunBoHue.Size = new System.Drawing.Size(120, 35);

this.btnBunBoHue.Text = "Bún bò Huế";

this.btnXoa.Location = new System.Drawing.Point(30, 280);

this.btnXoa.Name = "btnXoa";

this.btnXoa.Size = new System.Drawing.Size(75, 30);

this.btnXoa.TabIndex = 2;

this.btnXoa.Text = "Xóa";

this.btnXoa.UseVisualStyleBackColor = true;

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

this.cbBan.DropDownStyle = System.Windows.Forms.ComboBoxStyle.DropDownList;

this.cbBan.Location = new System.Drawing.Point(180, 285);

this.cbBan.Name = "cbBan";

this.cbBan.Size = new System.Drawing.Size(100, 21);

this.cbBan.TabIndex = 3;

this.labelBan.AutoSize = true;

this.labelBan.Location = new System.Drawing.Point(120, 290);

this.labelBan.Name = "labelBan";

this.labelBan.Size = new System.Drawing.Size(55, 13);

this.labelBan.Text = "Chọn bàn:";

this.btnOrder.Location = new System.Drawing.Point(300, 280);

this.btnOrder.Name = "btnOrder";

this.btnOrder.Size = new System.Drawing.Size(75, 30);

this.btnOrder.TabIndex = 4;

this.btnOrder.Text = "Order";

this.btnOrder.UseVisualStyleBackColor = true;

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

this.lvMonAn.Location = new System.Drawing.Point(30, 320);

this.lvMonAn.Name = "lvMonAn";

this.lvMonAn.Size = new System.Drawing.Size(550, 180);

this.lvMonAn.TabIndex = 5;

this.lvMonAn.UseCompatibleStateImageBehavior = false;

this.ClientSize = new System.Drawing.Size(620, 530);

this.Controls.Add(this.lvMonAn);

this.Controls.Add(this.btnOrder);

this.Controls.Add(this.labelBan);

this.Controls.Add(this.cbBan);

this.Controls.Add(this.btnXoa);

this.Controls.Add(this.groupMonAn);

this.Controls.Add(this.labelTitle);

this.Name = "Form1";

this.Text = "Quán ăn nhanh Hưng Thịnh";

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

this.groupMonAn.ResumeLayout(false);

this.ResumeLayout(false);

this.PerformLayout();

}

private System.Windows.Forms.Label labelTitle;

private System.Windows.Forms.GroupBox groupMonAn;

private System.Windows.Forms.Button btnComChienTrung;

private System.Windows.Forms.Button btnBanhMiOpLa;

private System.Windows.Forms.Button btnCoca;

private System.Windows.Forms.Button btnLipton;

private System.Windows.Forms.Button btnOcRangMuoi;

private System.Windows.Forms.Button btnKhoaiTayChien;

private System.Windows.Forms.Button btn7up;

private System.Windows.Forms.Button btnCam;

private System.Windows.Forms.Button btnMyXaoHaiSan;

private System.Windows.Forms.Button btnCaVienChien;

private System.Windows.Forms.Button btnPepsi;

private System.Windows.Forms.Button btnCafe;

private System.Windows.Forms.Button btnBugerBoNuong;

private System.Windows.Forms.Button btnDuiGaRan;

private System.Windows.Forms.Button btnBunBoHue;

private System.Windows.Forms.Button btnXoa;

private System.Windows.Forms.ComboBox cbBan;

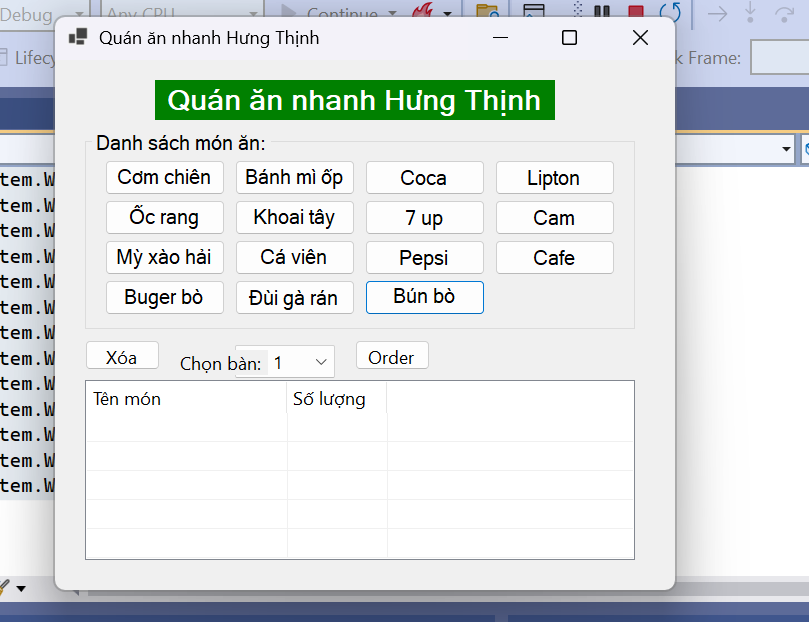
private System.Windows.Forms.Label labelBan;

private System.Windows.Forms.Button btnOrder;

private System.Windows.Forms.ListView lvMonAn;

}

}



Thực hành 2: Tạo mới 1 project có tên là “ThucHanh2” với form chính được

minh họa như sau:

**designer**

namespace Thuc\_hanh2

{

partial class Form1

{

private System.ComponentModel.IContainer components = null;

protected override void Dispose(bool disposing)

{

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

{

components.Dispose();

}

base.Dispose(disposing);

}

private void InitializeComponent()

{

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

this.grbThongTin = new System.Windows.Forms.GroupBox();

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

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

this.dtNgaySinh = new System.Windows.Forms.DateTimePicker();

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

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

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

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

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

this.grbChucNang = new System.Windows.Forms.GroupBox();

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

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

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

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

this.grbDanhSach = new System.Windows.Forms.GroupBox();

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

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

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

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

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

this.grbThongTin.SuspendLayout();

this.grbChucNang.SuspendLayout();

this.grbDanhSach.SuspendLayout();

this.SuspendLayout();

this.lblTitle.Dock = System.Windows.Forms.DockStyle.Top;

this.lblTitle.Font = new System.Drawing.Font("Segoe UI", 16F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);

this.lblTitle.ForeColor = System.Drawing.Color.RoyalBlue;

this.lblTitle.Location = new System.Drawing.Point(0, 0);

this.lblTitle.Name = "lblTitle";

this.lblTitle.Size = new System.Drawing.Size(784, 50);

this.lblTitle.TabIndex = 0;

this.lblTitle.Text = "DANH MỤC SINH VIÊN";

this.lblTitle.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;

this.grbThongTin.Controls.Add(this.txtDiaChi);

this.grbThongTin.Controls.Add(this.lblDiaChi);

this.grbThongTin.Controls.Add(this.dtNgaySinh);

this.grbThongTin.Controls.Add(this.lblNgaySinh);

this.grbThongTin.Controls.Add(this.txtLop);

this.grbThongTin.Controls.Add(this.lblLop);

this.grbThongTin.Controls.Add(this.txtHoTen);

this.grbThongTin.Controls.Add(this.lblHoTen);

this.grbThongTin.Location = new System.Drawing.Point(40, 60);

this.grbThongTin.Name = "grbThongTin";

this.grbThongTin.Size = new System.Drawing.Size(700, 100);

this.grbThongTin.TabIndex = 1;

this.grbThongTin.TabStop = false;

this.grbThongTin.Text = "Thông tin sinh viên:";

this.txtDiaChi.Location = new System.Drawing.Point(390, 63);

this.txtDiaChi.Name = "txtDiaChi";

this.txtDiaChi.Size = new System.Drawing.Size(280, 25);

this.txtDiaChi.TabIndex = 7;

this.lblDiaChi.AutoSize = true;

this.lblDiaChi.Location = new System.Drawing.Point(330, 66);

this.lblDiaChi.Name = "lblDiaChi";

this.lblDiaChi.Size = new System.Drawing.Size(52, 17);

this.lblDiaChi.TabIndex = 6;

this.lblDiaChi.Text = "Địa chỉ:";

this.dtNgaySinh.Format = System.Windows.Forms.DateTimePickerFormat.Short;

this.dtNgaySinh.Location = new System.Drawing.Point(100, 63);

this.dtNgaySinh.Name = "dtNgaySinh";

this.dtNgaySinh.Size = new System.Drawing.Size(150, 25);

this.dtNgaySinh.TabIndex = 5;

this.lblNgaySinh.AutoSize = true;

this.lblNgaySinh.Location = new System.Drawing.Point(20, 66);

this.lblNgaySinh.Name = "lblNgaySinh";

this.lblNgaySinh.Size = new System.Drawing.Size(70, 17);

this.lblNgaySinh.TabIndex = 4;

this.lblNgaySinh.Text = "Ngày sinh:";

this.txtLop.Location = new System.Drawing.Point(380, 27);

this.txtLop.Name = "txtLop";

this.txtLop.Size = new System.Drawing.Size(290, 25);

this.txtLop.TabIndex = 3;

this.lblLop.AutoSize = true;

this.lblLop.Location = new System.Drawing.Point(330, 30);

this.lblLop.Name = "lblLop";

this.lblLop.Size = new System.Drawing.Size(34, 17);

this.lblLop.TabIndex = 2;

this.lblLop.Text = "Lớp:";

this.txtHoTen.Location = new System.Drawing.Point(80, 27);

this.txtHoTen.Name = "txtHoTen";

this.txtHoTen.Size = new System.Drawing.Size(200, 25);

this.txtHoTen.TabIndex = 1;

this.lblHoTen.AutoSize = true;

this.lblHoTen.Location = new System.Drawing.Point(20, 30);

this.lblHoTen.Name = "lblHoTen";

this.lblHoTen.Size = new System.Drawing.Size(54, 17);

this.lblHoTen.TabIndex = 0;

this.lblHoTen.Text = "Họ tên:";

this.grbChucNang.Controls.Add(this.btnThoat);

this.grbChucNang.Controls.Add(this.btnXoa);

this.grbChucNang.Controls.Add(this.btnSua);

this.grbChucNang.Controls.Add(this.btnThem);

this.grbChucNang.Location = new System.Drawing.Point(40, 170);

this.grbChucNang.Name = "grbChucNang";

this.grbChucNang.Size = new System.Drawing.Size(700, 60);

this.grbChucNang.TabIndex = 2;

this.grbChucNang.TabStop = false;

this.grbChucNang.Text = "Chức năng:";

this.btnThoat.Location = new System.Drawing.Point(460, 25);

this.btnThoat.Name = "btnThoat";

this.btnThoat.Size = new System.Drawing.Size(80, 25);

this.btnThoat.TabIndex = 3;

this.btnThoat.Text = "Thoát";

this.btnThoat.UseVisualStyleBackColor = true;

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

this.btnXoa.Location = new System.Drawing.Point(340, 25);

this.btnXoa.Name = "btnXoa";

this.btnXoa.Size = new System.Drawing.Size(80, 25);

this.btnXoa.TabIndex = 2;

this.btnXoa.Text = "Xóa";

this.btnXoa.UseVisualStyleBackColor = true;

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

this.btnSua.Location = new System.Drawing.Point(220, 25);

this.btnSua.Name = "btnSua";

this.btnSua.Size = new System.Drawing.Size(80, 25);

this.btnSua.TabIndex = 1;

this.btnSua.Text = "Sửa";

this.btnSua.UseVisualStyleBackColor = true;

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

this.btnThem.Location = new System.Drawing.Point(100, 25);

this.btnThem.Name = "btnThem";

this.btnThem.Size = new System.Drawing.Size(80, 25);

this.btnThem.TabIndex = 0;

this.btnThem.Text = "Thêm";

this.btnThem.UseVisualStyleBackColor = true;

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

this.grbDanhSach.Controls.Add(this.lvSinhVien);

this.grbDanhSach.Location = new System.Drawing.Point(40, 240);

this.grbDanhSach.Name = "grbDanhSach";

this.grbDanhSach.Size = new System.Drawing.Size(700, 200);

this.grbDanhSach.TabIndex = 3;

this.grbDanhSach.TabStop = false;

this.grbDanhSach.Text = "Thông tin chung sinh viên:";

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

this.columnHoTen,

this.columnNgaySinh,

this.columnLop,

this.columnDiaChi});

this.lvSinhVien.FullRowSelect = true;

this.lvSinhVien.GridLines = true;

this.lvSinhVien.Location = new System.Drawing.Point(15, 25);

this.lvSinhVien.Name = "lvSinhVien";

this.lvSinhVien.Size = new System.Drawing.Size(660, 160);

this.lvSinhVien.TabIndex = 0;

this.lvSinhVien.UseCompatibleStateImageBehavior = false;

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

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

this.columnHoTen.Text = "Họ tên";

this.columnHoTen.Width = 150;

this.columnNgaySinh.Text = "Ngày sinh";

this.columnNgaySinh.Width = 100;

this.columnLop.Text = "Lớp";

this.columnLop.Width = 100;

this.columnDiaChi.Text = "Địa chỉ";

this.columnDiaChi.Width = 150;

this.AutoScaleDimensions = new System.Drawing.SizeF(7F, 17F);

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

this.ClientSize = new System.Drawing.Size(784, 461);

this.Controls.Add(this.grbDanhSach);

this.Controls.Add(this.grbChucNang);

this.Controls.Add(this.grbThongTin);

this.Controls.Add(this.lblTitle);

this.Name = "Form1";

this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;

this.Text = "Danh sách sinh viên";

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

this.grbThongTin.ResumeLayout(false);

this.grbThongTin.PerformLayout();

this.grbChucNang.ResumeLayout(false);

this.grbDanhSach.ResumeLayout(false);

this.ResumeLayout(false);

}

private System.Windows.Forms.Label lblTitle;

private System.Windows.Forms.GroupBox grbThongTin;

private System.Windows.Forms.TextBox txtDiaChi;

private System.Windows.Forms.Label lblDiaChi;

private System.Windows.Forms.DateTimePicker dtNgaySinh;

private System.Windows.Forms.Label lblNgaySinh;

private System.Windows.Forms.TextBox txtLop;

private System.Windows.Forms.Label lblLop;

private System.Windows.Forms.TextBox txtHoTen;

private System.Windows.Forms.Label lblHoTen;

private System.Windows.Forms.GroupBox grbChucNang;

private System.Windows.Forms.Button btnThoat;

private System.Windows.Forms.Button btnXoa;

private System.Windows.Forms.Button btnSua;

private System.Windows.Forms.Button btnThem;

private System.Windows.Forms.GroupBox grbDanhSach;

private System.Windows.Forms.ListView lvSinhVien;

private System.Windows.Forms.ColumnHeader columnHoTen;

private System.Windows.Forms.ColumnHeader columnNgaySinh;

private System.Windows.Forms.ColumnHeader columnLop;

private System.Windows.Forms.ColumnHeader columnDiaChi;

}

}

**Form1.cs**

using System;

using System.Windows.Forms;

namespace Thuc\_hanh2

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

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

{

// Cấu hình ListView

lvSinhVien.View = View.Details;

lvSinhVien.FullRowSelect = true;

lvSinhVien.GridLines = true;

lvSinhVien.Columns.Add("Họ tên", 150);

lvSinhVien.Columns.Add("Ngày sinh", 100);

lvSinhVien.Columns.Add("Lớp", 100);

lvSinhVien.Columns.Add("Địa chỉ", 150);

}

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

{

if (string.IsNullOrWhiteSpace(txtHoTen.Text))

{

MessageBox.Show("Họ tên không được để trống!", "Thông báo", MessageBoxButtons.OK, MessageBoxIcon.Warning);

return;

}

ListViewItem item = new ListViewItem(txtHoTen.Text);

item.SubItems.Add(dtNgaySinh.Value.ToShortDateString());

item.SubItems.Add(txtLop.Text);

item.SubItems.Add(txtDiaChi.Text);

lvSinhVien.Items.Add(item);

// Xóa input sau khi thêm

txtHoTen.Clear();

txtLop.Clear();

txtDiaChi.Clear();

}

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

{

if (lvSinhVien.SelectedItems.Count == 0)

{

MessageBox.Show("Vui lòng chọn 1 dòng để xóa!", "Thông báo", MessageBoxButtons.OK, MessageBoxIcon.Warning);

return;

}

lvSinhVien.Items.Remove(lvSinhVien.SelectedItems[0]);

}

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

{

if (lvSinhVien.SelectedItems.Count == 0)

{

MessageBox.Show("Vui lòng chọn 1 dòng để sửa!", "Thông báo", MessageBoxButtons.OK, MessageBoxIcon.Warning);

return;

}

ListViewItem item = lvSinhVien.SelectedItems[0];

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

item.SubItems[1].Text = dtNgaySinh.Value.ToShortDateString();

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

item.SubItems[3].Text = txtDiaChi.Text;

}

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

{

Application.Exit();

}

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

{

if (lvSinhVien.SelectedItems.Count > 0)

{

ListViewItem item = lvSinhVien.SelectedItems[0];

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

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

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

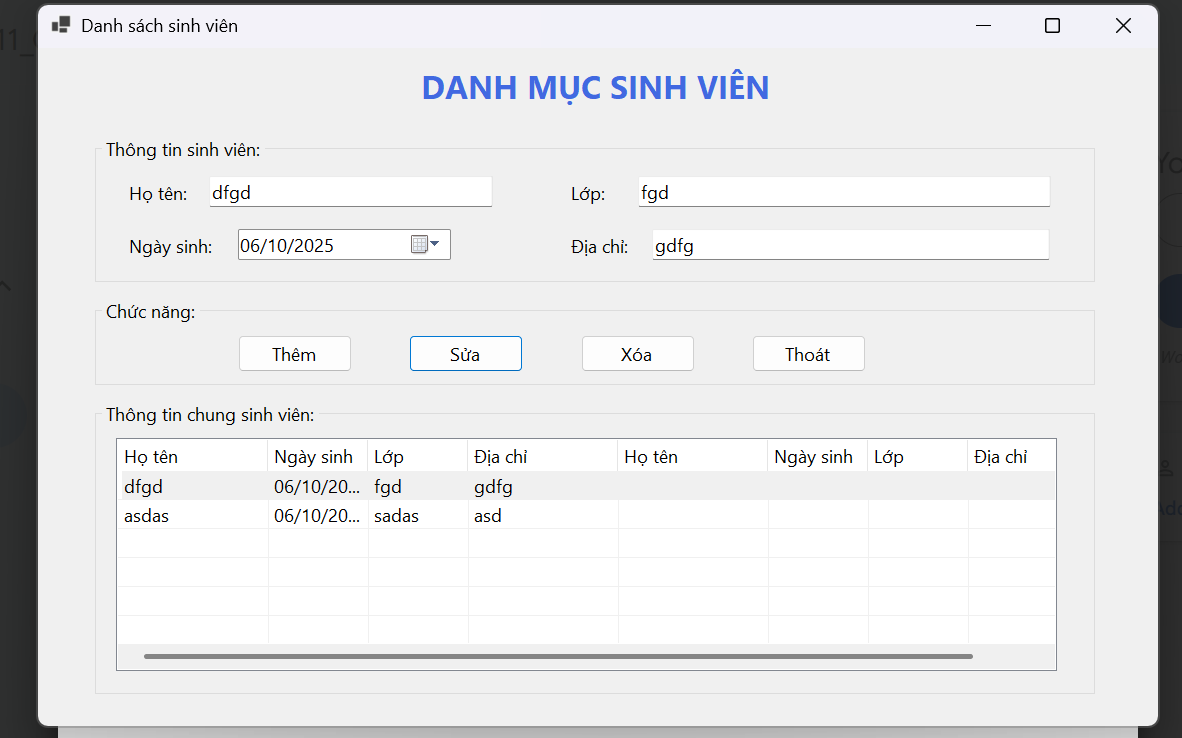
txtDiaChi.Text = item.SubItems[3].Text;

}

}

}

}



LAB 4: WINFORM KẾT NỐI CƠ SỞ DỮ LIỆU CƠ BẢN

**Tái sử dụng form Sinh viên**

namespace thuc

{

partial class Form1

{

private System.ComponentModel.IContainer components = null;

protected override void Dispose(bool disposing)

{

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

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

private void InitializeComponent()

{

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

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

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

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

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

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

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

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

this.dateNgaySinh = new System.Windows.Forms.DateTimePicker();

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

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

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

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

this.dgvSinhVien = new System.Windows.Forms.DataGridView();

((System.ComponentModel.ISupportInitialize)(this.dgvSinhVien)).BeginInit();

this.SuspendLayout();

this.lblTitle.AutoSize = true;

this.lblTitle.Font = new System.Drawing.Font("Segoe UI", 18F, System.Drawing.FontStyle.Bold);

this.lblTitle.ForeColor = System.Drawing.Color.Blue;

this.lblTitle.Location = new System.Drawing.Point(220, 20);

this.lblTitle.Name = "lblTitle";

this.lblTitle.Size = new System.Drawing.Size(290, 32);

this.lblTitle.TabIndex = 0;

this.lblTitle.Text = "DANH MỤC SINH VIÊN";

this.lblHoTen.AutoSize = true;

this.lblHoTen.Location = new System.Drawing.Point(40, 80);

this.lblHoTen.Name = "lblHoTen";

this.lblHoTen.Size = new System.Drawing.Size(50, 15);

this.lblHoTen.TabIndex = 1;

this.lblHoTen.Text = "Họ tên:";

this.txtHoTen.Location = new System.Drawing.Point(100, 75);

this.txtHoTen.Name = "txtHoTen";

this.txtHoTen.Size = new System.Drawing.Size(220, 23);

this.txtHoTen.TabIndex = 2;

this.lblLop.AutoSize = true;

this.lblLop.Location = new System.Drawing.Point(380, 80);

this.lblLop.Name = "lblLop";

this.lblLop.Size = new System.Drawing.Size(33, 15);

this.lblLop.TabIndex = 3;

this.lblLop.Text = "Lớp:";

this.txtLop.Location = new System.Drawing.Point(420, 75);

this.txtLop.Name = "txtLop";

this.txtLop.Size = new System.Drawing.Size(200, 23);

this.txtLop.TabIndex = 4;

this.lblNgaySinh.AutoSize = true;

this.lblNgaySinh.Location = new System.Drawing.Point(40, 120);

this.lblNgaySinh.Name = "lblNgaySinh";

this.lblNgaySinh.Size = new System.Drawing.Size(64, 15);

this.lblNgaySinh.TabIndex = 5;

this.lblNgaySinh.Text = "Ngày sinh:";

this.dateNgaySinh.Format = System.Windows.Forms.DateTimePickerFormat.Short;

this.dateNgaySinh.Location = new System.Drawing.Point(110, 115);

this.dateNgaySinh.Name = "dateNgaySinh";

this.dateNgaySinh.Size = new System.Drawing.Size(210, 23);

this.dateNgaySinh.TabIndex = 6;

this.lblDiaChi.AutoSize = true;

this.lblDiaChi.Location = new System.Drawing.Point(380, 120);

this.lblDiaChi.Name = "lblDiaChi";

this.lblDiaChi.Size = new System.Drawing.Size(51, 15);

this.lblDiaChi.TabIndex = 7;

this.lblDiaChi.Text = "Địa chỉ:";

this.txtDiaChi.Location = new System.Drawing.Point(440, 115);

this.txtDiaChi.Name = "txtDiaChi";

this.txtDiaChi.Size = new System.Drawing.Size(180, 23);

this.txtDiaChi.TabIndex = 8;

this.btnThem.Location = new System.Drawing.Point(120, 160);

this.btnThem.Name = "btnThem";

this.btnThem.Size = new System.Drawing.Size(90, 30);

this.btnThem.TabIndex = 9;

this.btnThem.Text = "Thêm";

this.btnThem.UseVisualStyleBackColor = true;

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

this.btnSua.Location = new System.Drawing.Point(230, 160);

this.btnSua.Name = "btnSua";

this.btnSua.Size = new System.Drawing.Size(90, 30);

this.btnSua.TabIndex = 10;

this.btnSua.Text = "Sửa";

this.btnSua.UseVisualStyleBackColor = true;

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

this.btnXoa.Location = new System.Drawing.Point(340, 160);

this.btnXoa.Name = "btnXoa";

this.btnXoa.Size = new System.Drawing.Size(90, 30);

this.btnXoa.TabIndex = 11;

this.btnXoa.Text = "Xóa";

this.btnXoa.UseVisualStyleBackColor = true;

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

this.btnThoat.Location = new System.Drawing.Point(450, 160);

this.btnThoat.Name = "btnThoat";

this.btnThoat.Size = new System.Drawing.Size(90, 30);

this.btnThoat.TabIndex = 12;

this.btnThoat.Text = "Thoát";

this.btnThoat.UseVisualStyleBackColor = true;

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

this.dgvSinhVien.AllowUserToAddRows = false;

this.dgvSinhVien.AllowUserToDeleteRows = false;

this.dgvSinhVien.AutoSizeColumnsMode = System.Windows.Forms.DataGridViewAutoSizeColumnsMode.Fill;

this.dgvSinhVien.ColumnHeadersHeightSizeMode = System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;

this.dgvSinhVien.Location = new System.Drawing.Point(40, 210);

this.dgvSinhVien.Name = "dgvSinhVien";

this.dgvSinhVien.ReadOnly = true;

this.dgvSinhVien.RowTemplate.Height = 25;

this.dgvSinhVien.Size = new System.Drawing.Size(580, 220);

this.dgvSinhVien.TabIndex = 13;

this.dgvSinhVien.CellClick += new System.Windows.Forms.DataGridViewCellEventHandler(this.dgvSinhVien\_CellClick);

//

// frmSinhVien

//

this.AutoScaleDimensions = new System.Drawing.SizeF(7F, 15F);

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

this.ClientSize = new System.Drawing.Size(660, 460);

this.Controls.Add(this.dgvSinhVien);

this.Controls.Add(this.btnThoat);

this.Controls.Add(this.btnXoa);

this.Controls.Add(this.btnSua);

this.Controls.Add(this.btnThem);

this.Controls.Add(this.txtDiaChi);

this.Controls.Add(this.lblDiaChi);

this.Controls.Add(this.dateNgaySinh);

this.Controls.Add(this.lblNgaySinh);

this.Controls.Add(this.txtLop);

this.Controls.Add(this.lblLop);

this.Controls.Add(this.txtHoTen);

this.Controls.Add(this.lblHoTen);

this.Controls.Add(this.lblTitle);

this.Name = "frmSinhVien";

this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;

this.Text = "Danh sách sinh viên";

((System.ComponentModel.ISupportInitialize)(this.dgvSinhVien)).EndInit();

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.Label lblTitle;

private System.Windows.Forms.Label lblHoTen;

private System.Windows.Forms.Label lblNgaySinh;

private System.Windows.Forms.Label lblLop;

private System.Windows.Forms.Label lblDiaChi;

private System.Windows.Forms.TextBox txtHoTen;

private System.Windows.Forms.TextBox txtLop;

private System.Windows.Forms.TextBox txtDiaChi;

private System.Windows.Forms.DateTimePicker dateNgaySinh;

private System.Windows.Forms.Button btnThem;

private System.Windows.Forms.Button btnSua;

private System.Windows.Forms.Button btnXoa;

private System.Windows.Forms.Button btnThoat;

private System.Windows.Forms.DataGridView dgvSinhVien;

}

}

**CRUD**

using System;

using System.Data;

using System.Windows.Forms;

using MySql.Data.MySqlClient;

namespace thuc

{

public partial class Form1 : Form

{

string connStr = "server=localhost;user=spring;password=spring;database=qlsinhvien;";

public Form1()

{

InitializeComponent();

LoadData();

}

void LoadData()

{

using (MySqlConnection conn = new MySqlConnection(connStr))

{

conn.Open();

string sql = "SELECT \* FROM sinhvien";

MySqlDataAdapter da = new MySqlDataAdapter(sql, conn);

DataTable dt = new DataTable();

da.Fill(dt);

dgvSinhVien.DataSource = dt;

}

}

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

{

if (string.IsNullOrWhiteSpace(txtHoTen.Text))

{

MessageBox.Show("Họ tên không được để trống!");

return;

}

using (MySqlConnection conn = new MySqlConnection(connStr))

{

conn.Open();

string sql = "INSERT INTO sinhvien (HoTen, NgaySinh, Lop, DiaChi) VALUES (@HoTen, @NgaySinh, @Lop, @DiaChi)";

MySqlCommand cmd = new MySqlCommand(sql, conn);

cmd.Parameters.AddWithValue("@HoTen", txtHoTen.Text);

cmd.Parameters.AddWithValue("@NgaySinh", dateNgaySinh.Value.ToString("yyyy-MM-dd"));

cmd.Parameters.AddWithValue("@Lop", txtLop.Text);

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

cmd.ExecuteNonQuery();

LoadData();

MessageBox.Show("Thêm sinh viên thành công!");

}

}

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

{

if (dgvSinhVien.CurrentRow == null)

{

MessageBox.Show("Vui lòng chọn dòng cần sửa!");

return;

}

int id = Convert.ToInt32(dgvSinhVien.CurrentRow.Cells["id"].Value);

using (MySqlConnection conn = new MySqlConnection(connStr))

{

conn.Open();

string sql = "UPDATE sinhvien SET HoTen=@HoTen, NgaySinh=@NgaySinh, Lop=@Lop, DiaChi=@DiaChi WHERE id=@id";

MySqlCommand cmd = new MySqlCommand(sql, conn);

cmd.Parameters.AddWithValue("@HoTen", txtHoTen.Text);

cmd.Parameters.AddWithValue("@NgaySinh", dateNgaySinh.Value.ToString("yyyy-MM-dd"));

cmd.Parameters.AddWithValue("@Lop", txtLop.Text);

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

cmd.Parameters.AddWithValue("@id", id);

cmd.ExecuteNonQuery();

LoadData();

MessageBox.Show("Cập nhật thành công!");

}

}

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

{

if (dgvSinhVien.CurrentRow == null)

{

MessageBox.Show("Vui lòng chọn dòng cần xóa!");

return;

}

int id = Convert.ToInt32(dgvSinhVien.CurrentRow.Cells["id"].Value);

using (MySqlConnection conn = new MySqlConnection(connStr))

{

conn.Open();

string sql = "DELETE FROM sinhvien WHERE id=@id";

MySqlCommand cmd = new MySqlCommand(sql, conn);

cmd.Parameters.AddWithValue("@id", id);

cmd.ExecuteNonQuery();

LoadData();

MessageBox.Show("Xóa thành công!");

}

}

private void dgvSinhVien\_CellClick(object sender, DataGridViewCellEventArgs e)

{

if (e.RowIndex >= 0)

{

txtHoTen.Text = dgvSinhVien.Rows[e.RowIndex].Cells["HoTen"].Value.ToString();

txtLop.Text = dgvSinhVien.Rows[e.RowIndex].Cells["Lop"].Value.ToString();

txtDiaChi.Text = dgvSinhVien.Rows[e.RowIndex].Cells["DiaChi"].Value.ToString();

dateNgaySinh.Value = Convert.ToDateTime(dgvSinhVien.Rows[e.RowIndex].Cells["NgaySinh"].Value);

}

}

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

{

Application.Exit();

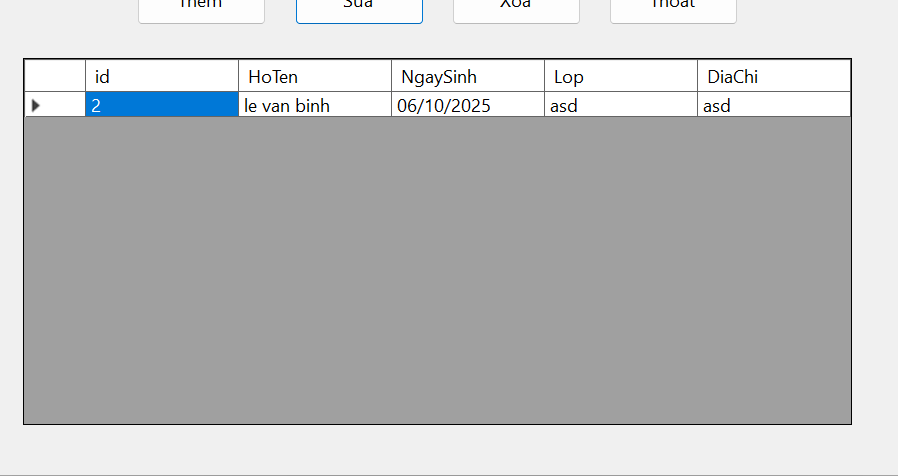
}

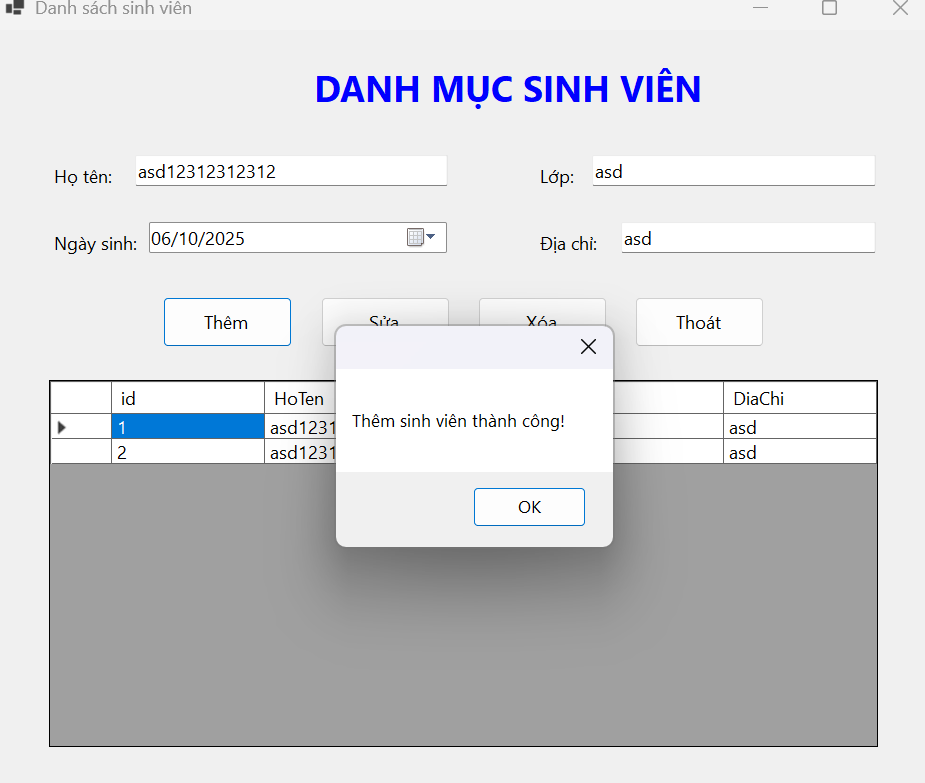
}

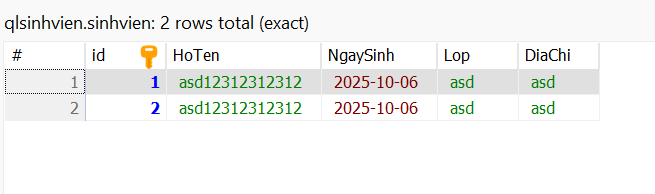
}

**kết quả :**

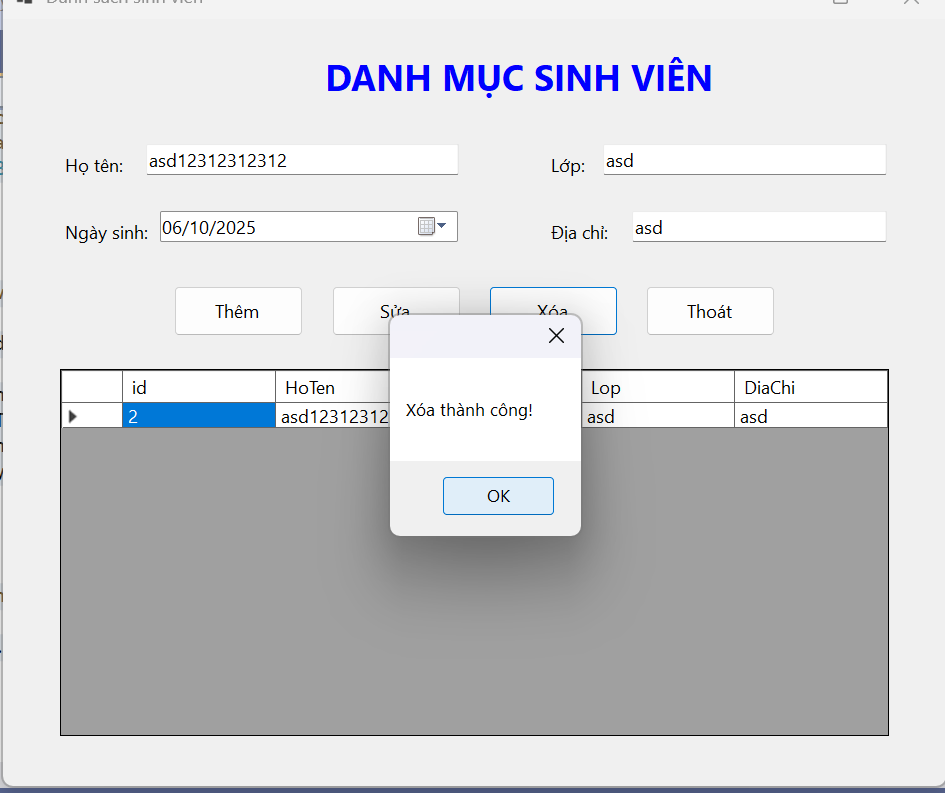
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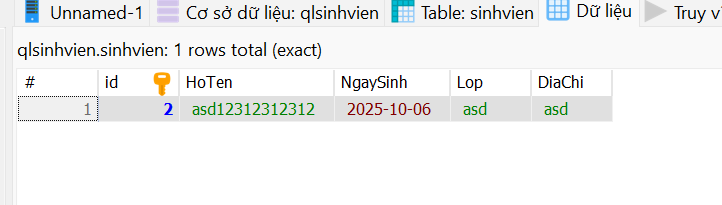






xóa sinh viên





Cập nhật:

