

BÀI TẬP BUỔI 10

Học phần: Lập trình .NET_TN207

Sinh viên thực hiện: Nguyễn Phước Trọng – B2014625

1. Trong ứng dụng ứng dụng QL_SinhVien Tạo Form frmLop_03 hiển thị thông tin các lớp chuyên ngành trong DataGridView, sử dụng Command cập nhật dữ liệu.

```
MyPublics.cs  ×
QL_SinhVien.MyPublics  ConnectDatabase()
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace QL_SinhVien
{
    public static class MyPublics
    {
        public static SqlConnection conMyConnection;
        public static string strMSSV, strLop, strQuyenSD, strHK, strNK;
        public static void ConnectDatabase()
        {
            string strConn = "Server = PTEMMA\\SQLEXPRESS; Database = QL_SinhVien; "
                + "Integrated Security = false; UID = TN207User; PWD = TN207User";
            conMyConnection = new SqlConnection();
            conMyConnection.ConnectionString = strConn;
            try
            {
                conMyConnection.Open();
            }
            catch (Exception)
            {
            }
        }
        public static string MaHoaPassword(string strPassword)
        {
            string strTemp1, strTemp2;
            int i, n;
            strTemp1 = "";
            strTemp2 = "";
            n = strPassword.Length;
            for (i = 0; i < n; i = i + 2)
            {
                strTemp1 += strPassword[i];
                if (n > i + 1)
                    strTemp2 += strPassword[i + 1];
            }
            return (strTemp1 + strTemp2);
        }
        public static void openData(String strSelect, DataTable dtTable)
        {
            SqlDataAdapter dataAdapter = new SqlDataAdapter();
            try
            {
                if (conMyConnection.State == ConnectionState.Closed)
                    conMyConnection.Open();
                dataAdapter.SelectCommand = new SqlCommand(strSelect, conMyConnection);
            }
        }
    }
}
```

```
        dataAdapter.Fill(dtTable);

        conMyConnection.Close();
    }
    catch (Exception e)
    {
    }
}

public static bool tonTaiKhoaChinh(String strGiaTri, String strTenTruong, String strTenBang)
{
    bool blnTonTai = false ;
    try
    {
        String sqllect = "select 1 from " + strTenBang + " where " + strTenTruong + "=" + strGiaTri + "";
        if (conMyConnection.State == ConnectionState.Closed)
            conMyConnection.Open();

        SqlCommand cmdCommand = new SqlCommand(sqllect, conMyConnection);
        SqlDataReader drReader = cmdCommand.ExecuteReader();
        if (drReader.HasRows)
            blnTonTai = true;
        drReader.Close();
        conMyConnection.Close();
    }
    catch(Exception)
    {
    }
}
return blnTonTai;
}
```

```
frmMain.cs [Design] MyPublics.cs
QL_SinhVien.frmMain frmMain_Load(object sender, EventArgs e)
{
    private void mnuThoat_Click(object sender, EventArgs e)
    {
        Application.Exit();
    }

    private void frmMain_Load(object sender, EventArgs e)
    {
        frmDangNhap fDangNhap = new frmDangNhap(this);
        fDangNhap.ShowDialog();
    }

    private void mnuLop_Click(object sender, EventArgs e)
    {
        frmLop_03 fLop = new frmLop_03(this);
        fLop.ShowDialog();
    }

    private void mnuDangNhap_Click(object sender, EventArgs e)
    {
        frmDangNhap fDangNhap = new frmDangNhap(this);
        fDangNhap.ShowDialog();
    }
}
```

- frmLop_03

```
frmLop_03.cs # X frmLop_03.cs [Design] frmMain.cs frmMain.cs [Design] MyPublics.cs
QL_SinhVien.frmLop_03 frmLop_03_Load(object sender, EventArgs e)

namespace QL_SinhVien
{
    public partial class frmLop_03 : Form
    {
        private frmMain fMain;
        DataTable dtLop = new DataTable("Lop");
        bool bInThem = false;

        public frmLop_03()
        {
            InitializeComponent();
        }

        public frmLop_03(frmMain frmMain):this()
        {
            fMain = frmMain;
        }

        private void frmLop_03_Load(object sender, EventArgs e)
        {
            String sqlSelect = "select * from Lop";
            MyPublics.openData(sqlSelect, dtLop);

            dgvLop.DataSource = dtLop;
            txtmsLop.MaxLength = 8;
            txttenLop.MaxLength = 40;
            ganDuLieu();

            dgvLop.Width = 440;
            dgvLop.Columns[0].Width = 100;
            dgvLop.Columns[1].Width = 160;
            dgvLop.Columns[2].Width = 130;
            dgvLop.Columns[0].HeaderText = "Mã lớp";
            dgvLop.Columns[1].HeaderText = "Tên lớp";
            dgvLop.Columns[2].HeaderText = "Mã khóa học";

            dgvLop.AllowUserToAddRows = false;
            dgvLop.AllowUserToDeleteRows = false;

            dgvLopEditMode = DataGridViewEditMode.EditProgrammatically;
            dieuKhienKhiBinhThuong();
        }

        void dieuKhienKhiBinhThuong(){
            if (MyPublics.strQuyenSD == "AdminKhoa")
            {
                btnThem.Enabled = true;
                btnSua.Enabled = true;
                btnXoa.Enabled = true;
            }
            else
            {
                btnThem.Enabled = false;
                btnSua.Enabled = false;
                btnXoa.Enabled = false;
            }
        }

        if (MyPublics.strQuyenSD == "AdminLop")
            if (txtmsLop.Text == MyPublics.strLop)
                btnSua.Enabled = true;
            else
                btnSua.Enabled = false;
        }
    }
}
```

```
        btnLuu.Enabled = false;
        btnKhongLuu.Enabled = false;
        btnDong.Enabled = true;
        txtmsLop.ReadOnly = true;
        txtmsLop.BackColor = Color.White;
        txttenLop.ReadOnly = true;
        txttenLop.BackColor = Color.White;
        txtkhoaHoc.ReadOnly = true;
        txtkhoaHoc.BackColor = Color.White;
        dgvLop.Enabled = true;
    }

    void dieuKhienKhiThem()
    {
        btnThem.Enabled = false;
        btnSua.Enabled = false;
        btnLuu.Enabled = true;
        btnKhongLuu.Enabled = true;
        btnXoa.Enabled = false;
        btnDong.Enabled = false;
        txtmsLop.ReadOnly = false;
        txttenLop.ReadOnly = false;
        txtkhoaHoc.ReadOnly = false;
        txtmsLop.Clear();
        txttenLop.Clear();
        txtkhoaHoc.Clear();
        dgvLop.Enabled = false;
        txtmsLop.Focus();
    }

    void dieuKhienKhiChinhSua()
    {
        btnThem.Enabled = false;
        btnSua.Enabled = false;
        btnLuu.Enabled = true;
        btnKhongLuu.Enabled = true;
        btnXoa.Enabled = false;
        btnDong.Enabled = false;
        txttenLop.ReadOnly = false;
        txtkhoaHoc.ReadOnly = false;
        dgvLop.Enabled = false;
        txttenLop.Focus();
    }

    void ganDuLieu()
    {
        if (dgvLop.Rows.Count > 0)
        {
            txtmsLop.Text = dgvLop[0, dgvLop.CurrentRow.Index].Value.ToString();
            txttenLop.Text = dgvLop[1, dgvLop.CurrentRow.Index].Value.ToString();
            txtkhoaHoc.Text = dgvLop[2, dgvLop.CurrentRow.Index].Value.ToString();
        }
        else
        {
            btnSua.Enabled = false;
            btnXoa.Enabled = false;
            txtmsLop.Clear();
            txttenLop.Clear();
            txtkhoaHoc.Clear();
        }
    }
}
```

```
    void luuLop()
    {
        string strLuu = "insert into Lop values (@MSLop, @TenLop, @KhoaHoc)";

        if (MyPublics.conMyConnection.State == ConnectionState.Closed)
            MyPublics.conMyConnection.Open();
        SqlCommand cmdCommand = new SqlCommand(strLuu, MyPublics.conMyConnection);

        cmdCommand.Parameters.AddWithValue("@MSLop", txtmsLop.Text);
        cmdCommand.Parameters.AddWithValue("@TenLop", txttenLop.Text);
        cmdCommand.Parameters.AddWithValue("@KhoaHoc", txtkhoaHoc.Text);

        cmdCommand.ExecuteNonQuery();
        MyPublics.conMyConnection.Close();

        dtLop.Rows.Add(txtmsLop.Text, txttenLop.Text, txtkhoaHoc.Text);

        dgvLop.CurrentCell = dgvLop[0, dgvLop.Rows.Count - 1];

        ganDuLieu();
        blnThem = false;
        dieuKhienKhiBinhThuong();

    }

    void capNhatLop()
    {
        string strCapNhat = "update Lop set TenLop = @TenLop, KhoaHoc = @KhoaHoc Where MSLop = @MSLop";

        if (MyPublics.conMyConnection.State == ConnectionState.Closed) 
            MyPublics.conMyConnection.Open();
        SqlCommand cmdCommand = new SqlCommand(strCapNhat, MyPublics.conMyConnection);

        cmdCommand.Parameters.AddWithValue("@MSLop", txtmsLop.Text);
        cmdCommand.Parameters.AddWithValue("@TenLop", txttenLop.Text);
        cmdCommand.Parameters.AddWithValue("@KhoaHoc", txtkhoaHoc.Text);

        cmdCommand.ExecuteNonQuery();
        MyPublics.conMyConnection.Close();

        int curRow = dgvLop.CurrentRow.Index;

        dtLop.Rows[curRow][1] = txttenLop.Text;
        dtLop.Rows[curRow][2] = txtkhoaHoc.Text;

        dieuKhienKhiBinhThuong();
    }
}
```

```
private void btnDong_Click(object sender, EventArgs e)
{
    this.Close();
}

private void dgvLop_CellClick(object sender, DataGridViewCellEventArgs e)
{
    ganDuLieu();

    if (MyPublics.strQuyenSD == "AdminLop")
        if (txtmsLop.Text == MyPublics.strLop)
            btnSua.Enabled = true;
        else
            btnSua.Enabled = false;
}

private void btnThem_Click(object sender, EventArgs e)
{
    blnThem=true;
    dieuKienKhiThem();
}

private void btnSua_Click(object sender, EventArgs e)
{
    dieuKienKhiChinhSua();
}

private void btnLuu_Click(object sender, EventArgs e)
{
    int khoa;
    if (txtmsLop.Text == "")
    {
        MessageBox.Show("Lỗi chưa nhập mã số lớp!");
        txtmsLop.Focus();
        return;
    }
    if (txttenLop.Text == "")
    {
        MessageBox.Show("Lỗi chưa nhập tên lớp!");
        txtnenLop.Focus();
        return;
    }

    if (!int.TryParse(txtkhoaHoc.Text, out khoa) || (khoa <= 0))
    {
        MessageBox.Show("Lỗi nhập khóa học!");
        txtkhoaHoc.Clear();
        txtkhoaHoc.Focus();
        return;
    }

    if (blnThem)
    {
        if (MyPublics.tonTaiKhoaChinh(txtmsLop.Text, "MSLop", "Lop"))
        {
            MessageBox.Show("Mã số lớp này đã tồn tại !");
            txtmsLop.Clear();
            txtmsLop.Focus();
        }
        else luuLop();
    }
    else capNhatLop();
}
}
```

```
private void btnKhongLuu_Click(object sender, EventArgs e)
{
    blnThem = false;
    ganDuLieu();
    dieuKienKhiBinhThuong();
}

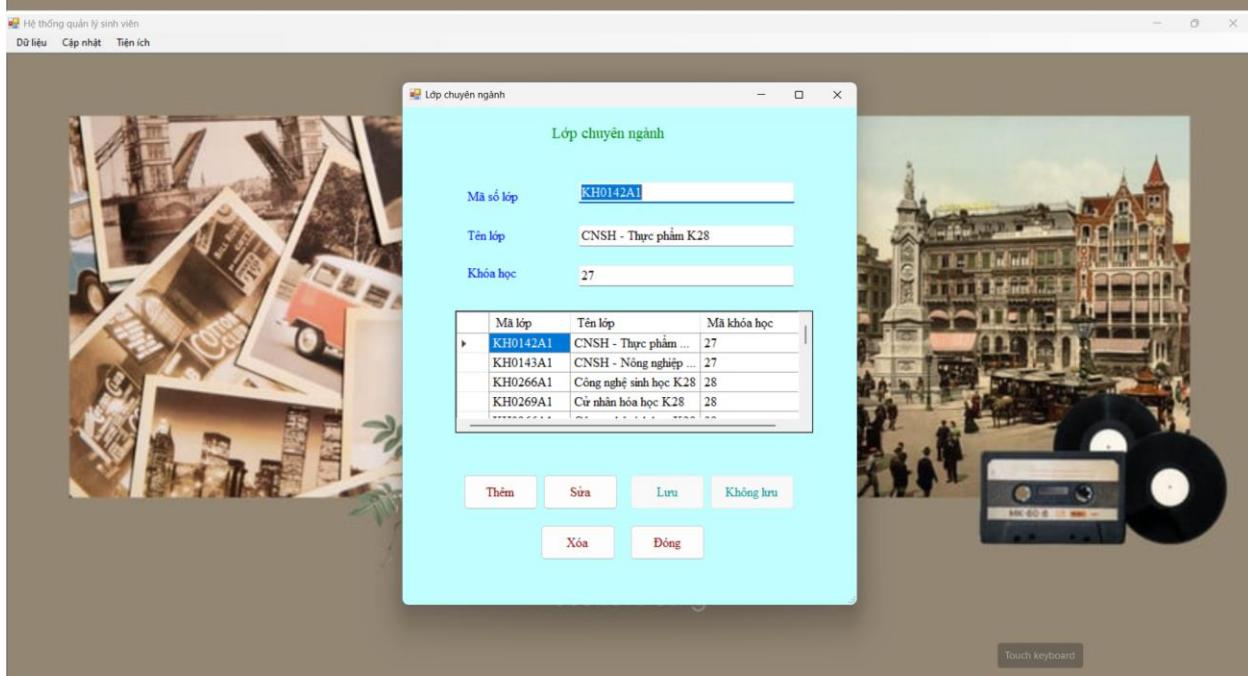
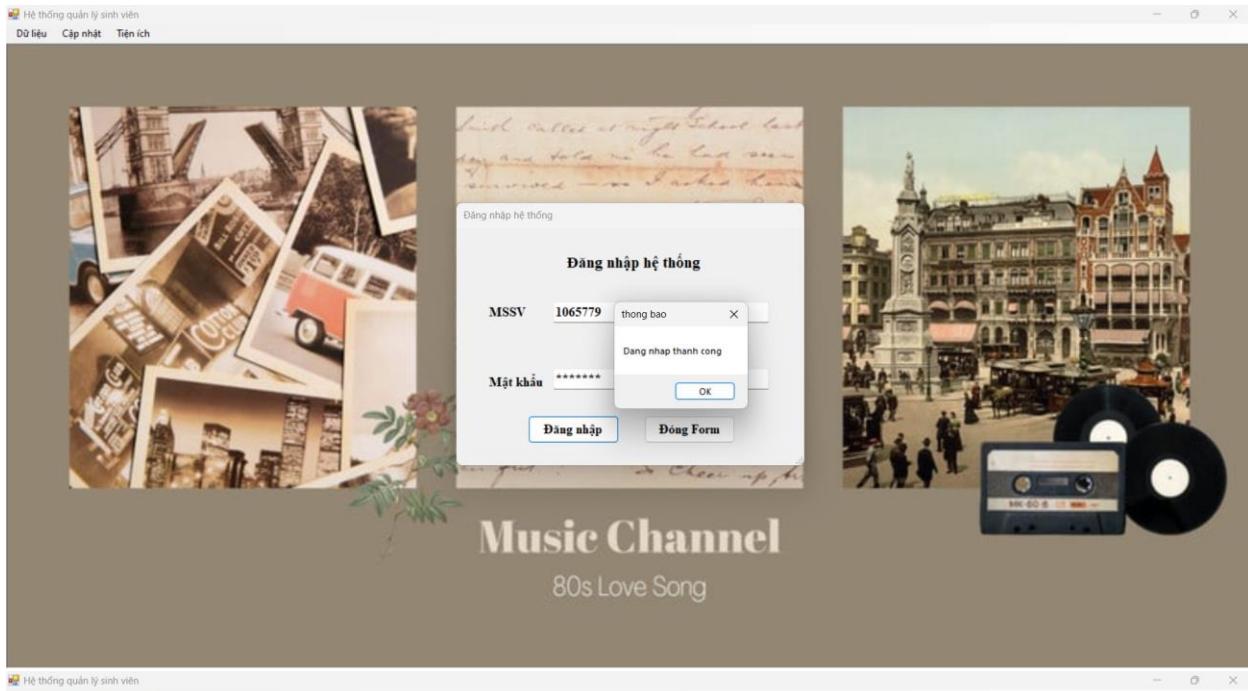
private void btnXoa_Click(object sender, EventArgs e)
{
    if (MyPublics.tonTaiKhoaChinh(txtmsLop.Text, "MSLop", "SinhVien"))
        MessageBox.Show("Phải xóa sinh viên thuộc Lớp trước đó!");
    else
    {
        DialogResult blnY;
        blnY = MessageBox.Show("Bạn thật sự muốn xóa ?","Xác nhận", MessageBoxButtons.YesNo);

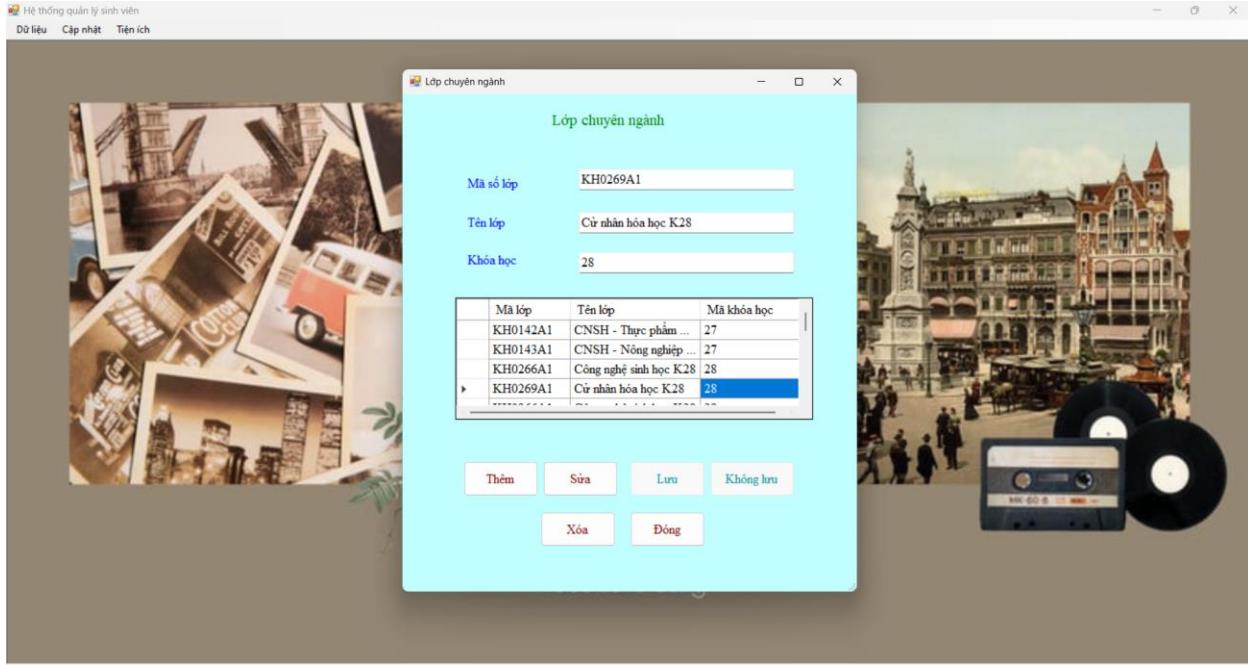
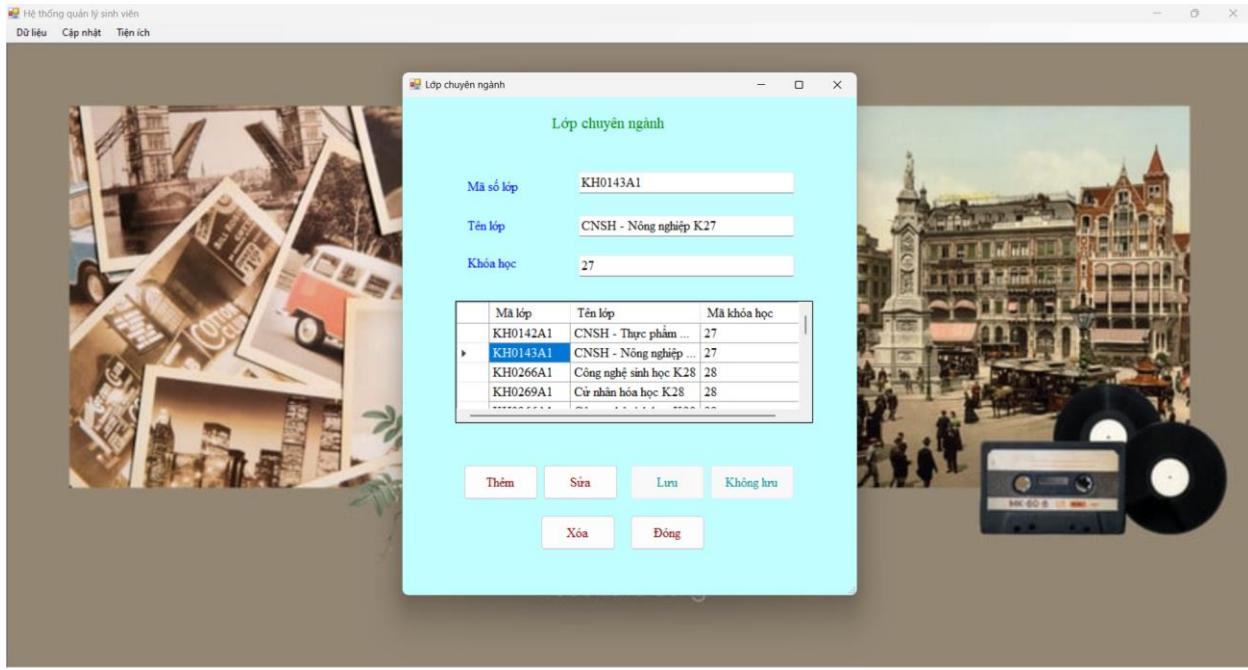
        if (blnY == DialogResult.Yes)
        {
            string sqlDel = "delete Lop where MSLop= @MsLop";
            if (MyPublics.conMyConnection.State == ConnectionState.Closed)
                MyPublics.conMyConnection.Open();
            SqlCommand cmdCommand = new SqlCommand(sqlDel, MyPublics.conMyConnection);
            cmdCommand.Parameters.AddWithValue("@MSLop", txtmsLop.Text);

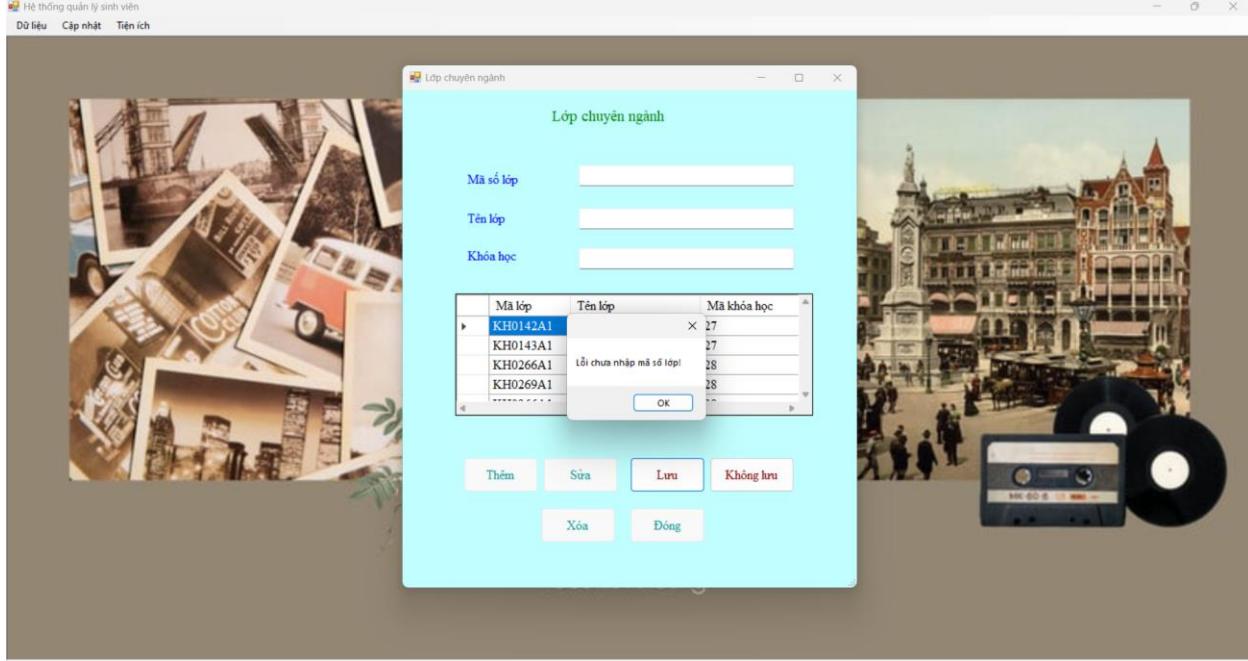
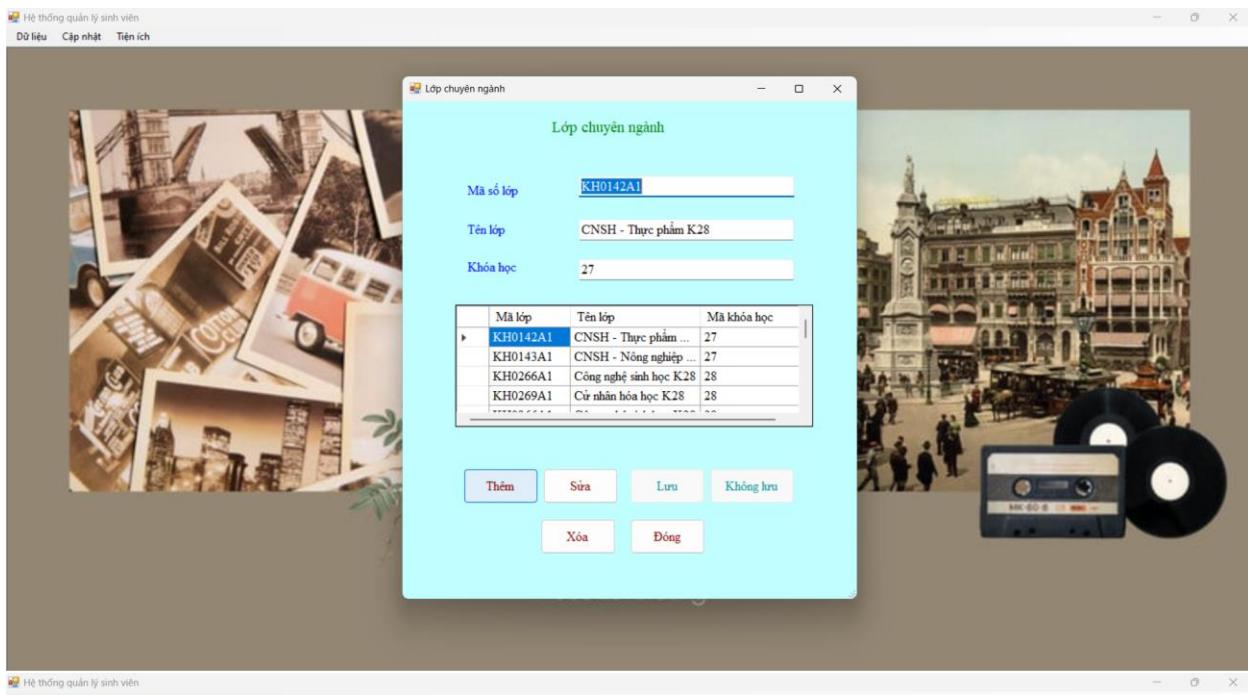
            cmdCommand.ExecuteNonQuery();
            MyPublics.conMyConnection.Close();

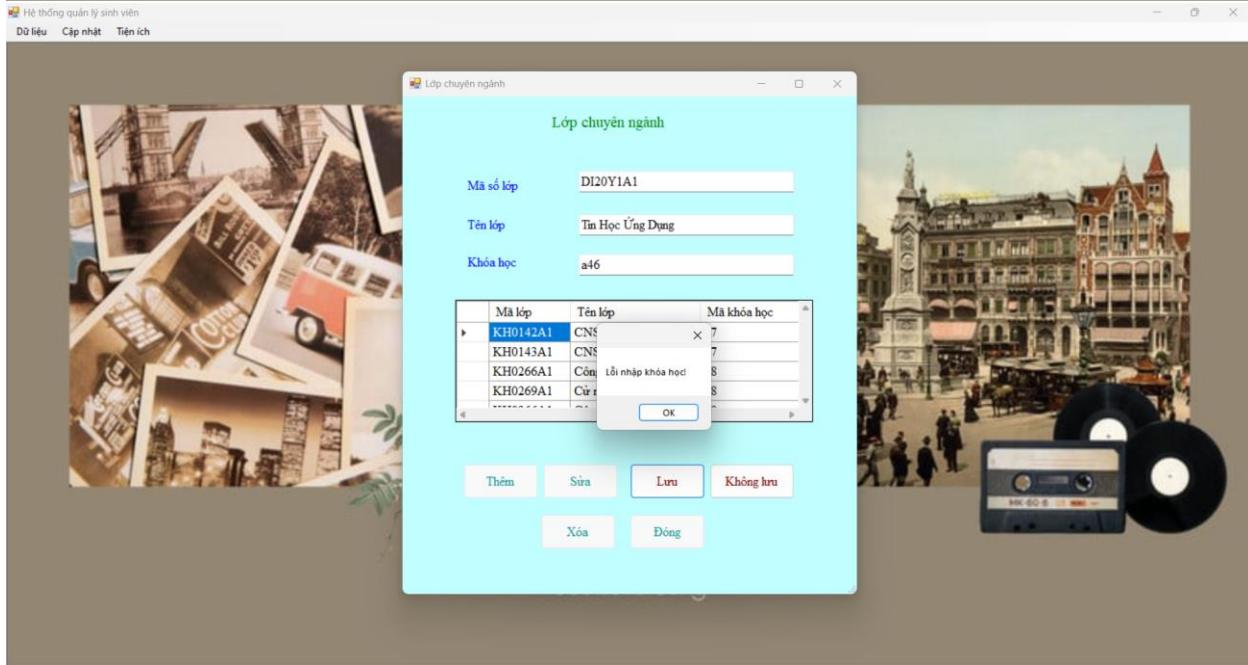
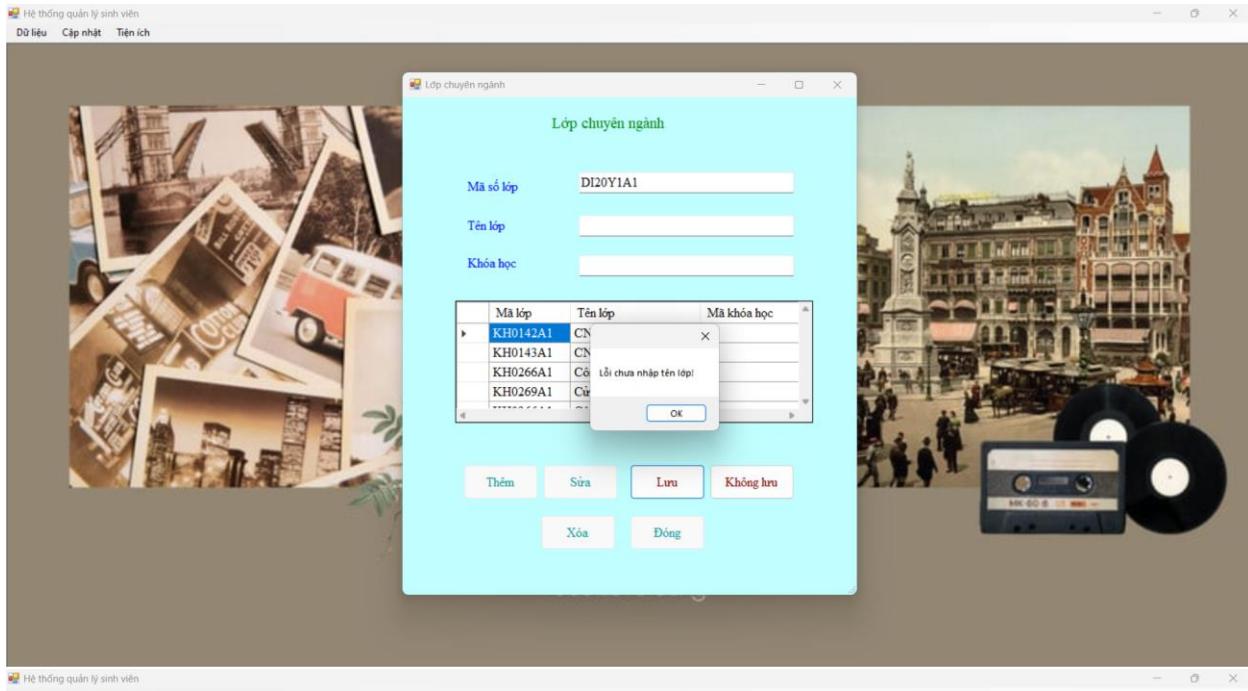
            dtLop.Rows.RemoveAt(dgvLop.CurrentRow.Index);
            ganDuLieu();
        }
    }
}
```

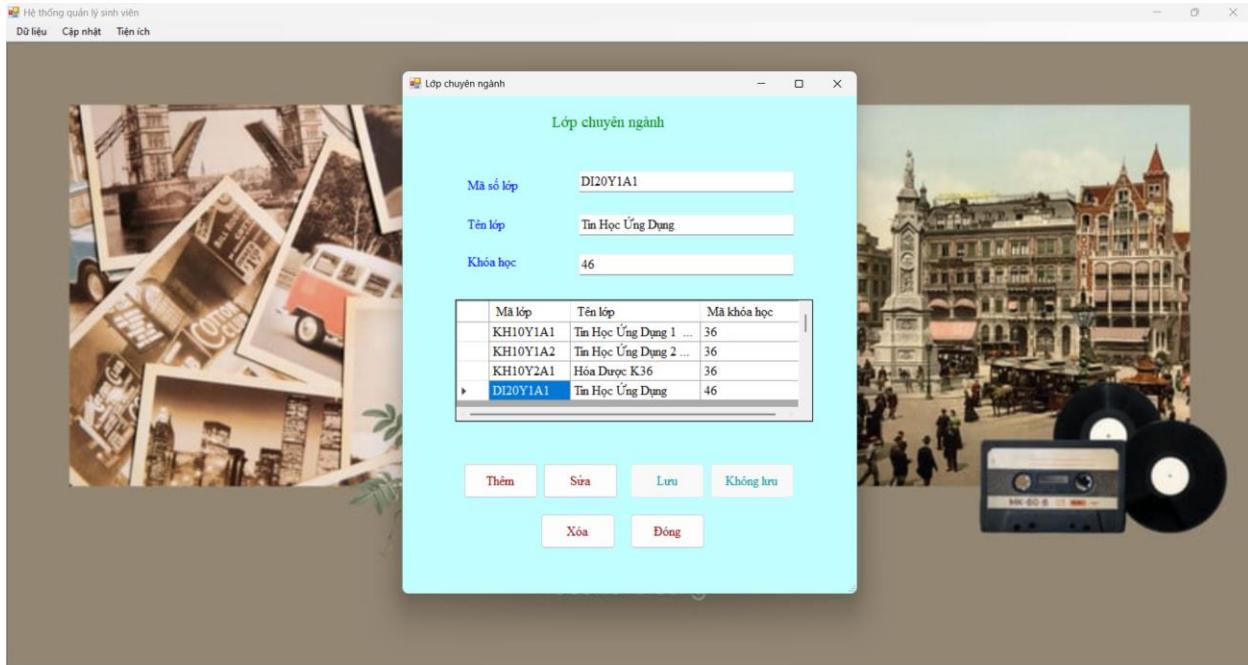
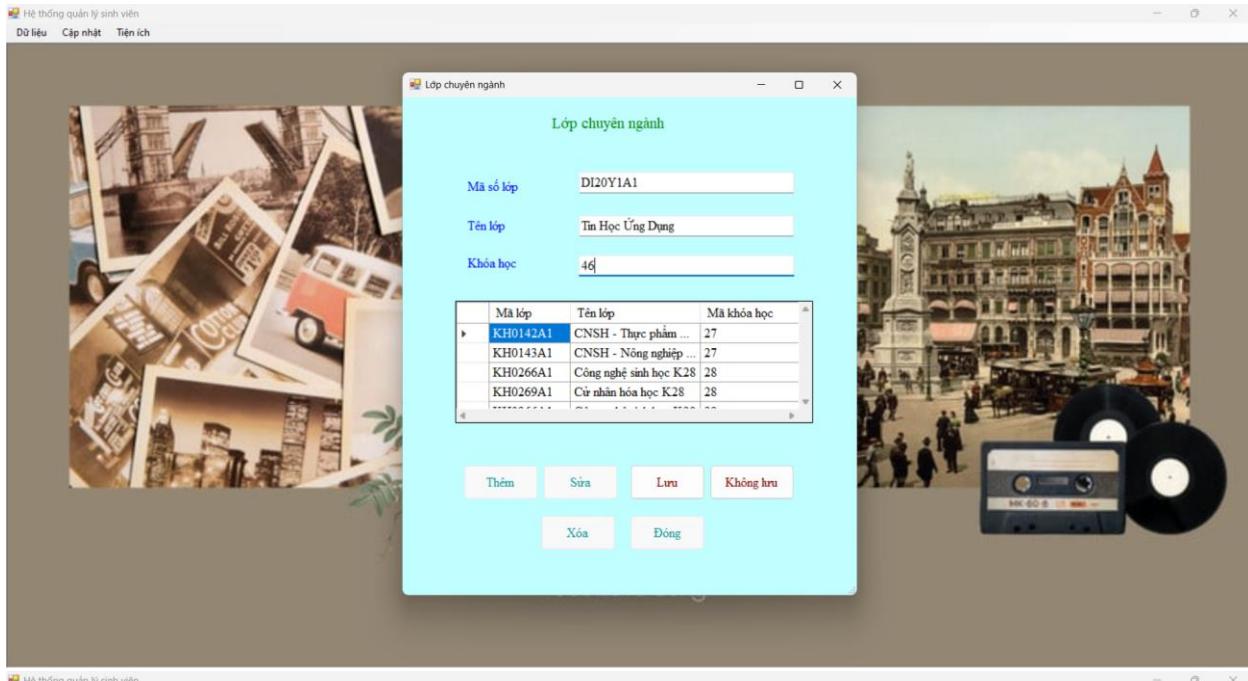
- Thực thi code
 - o Admin khoa

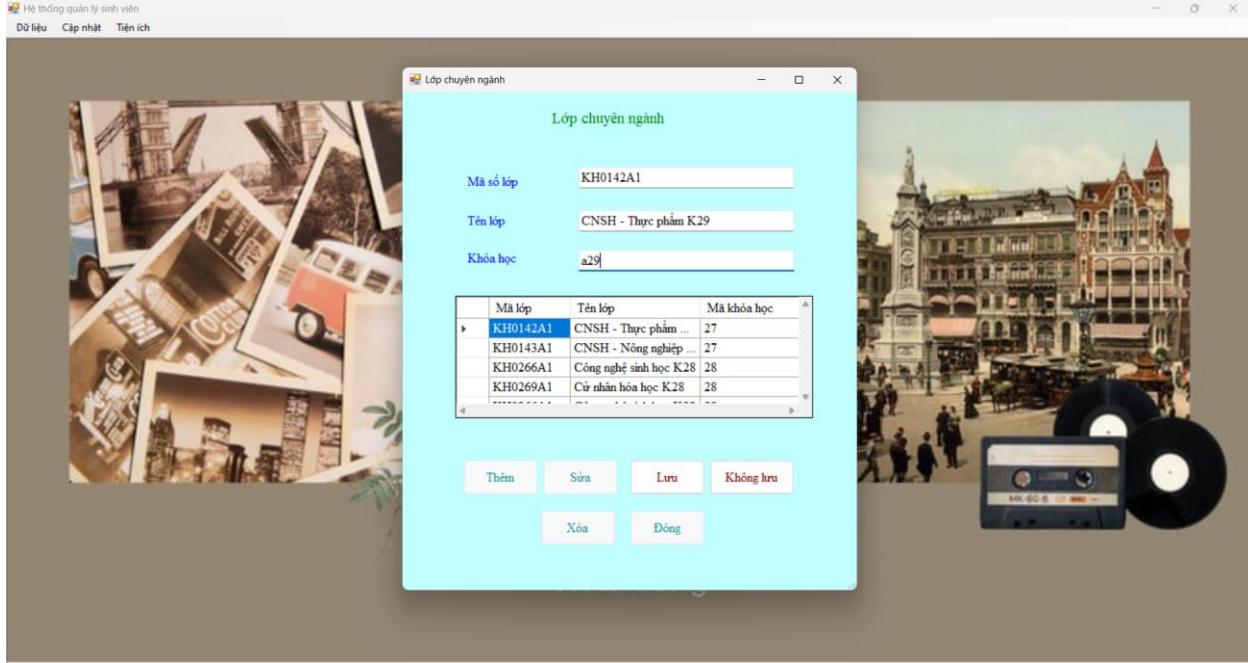
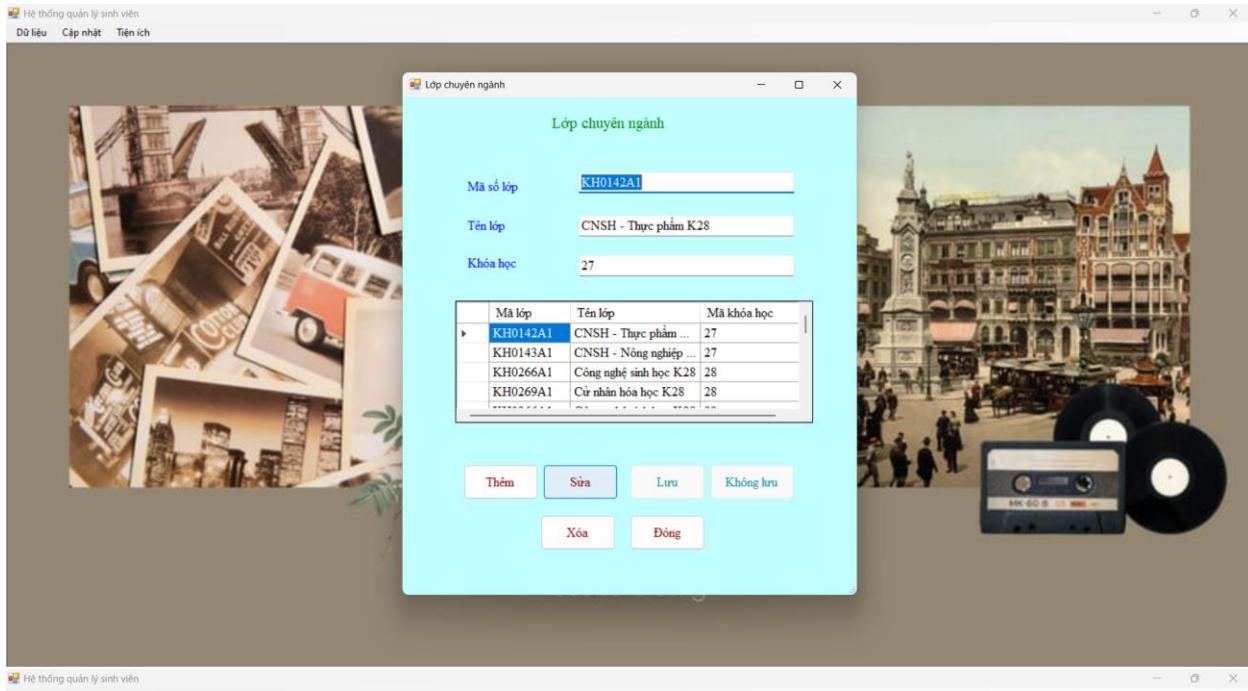


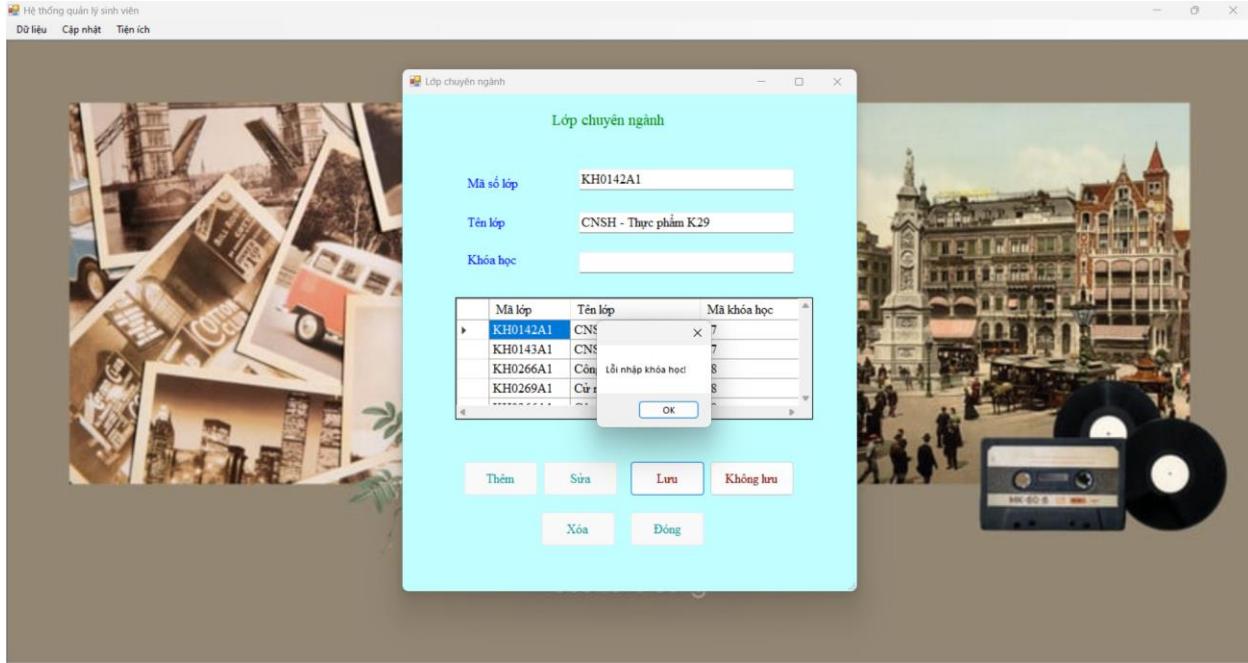
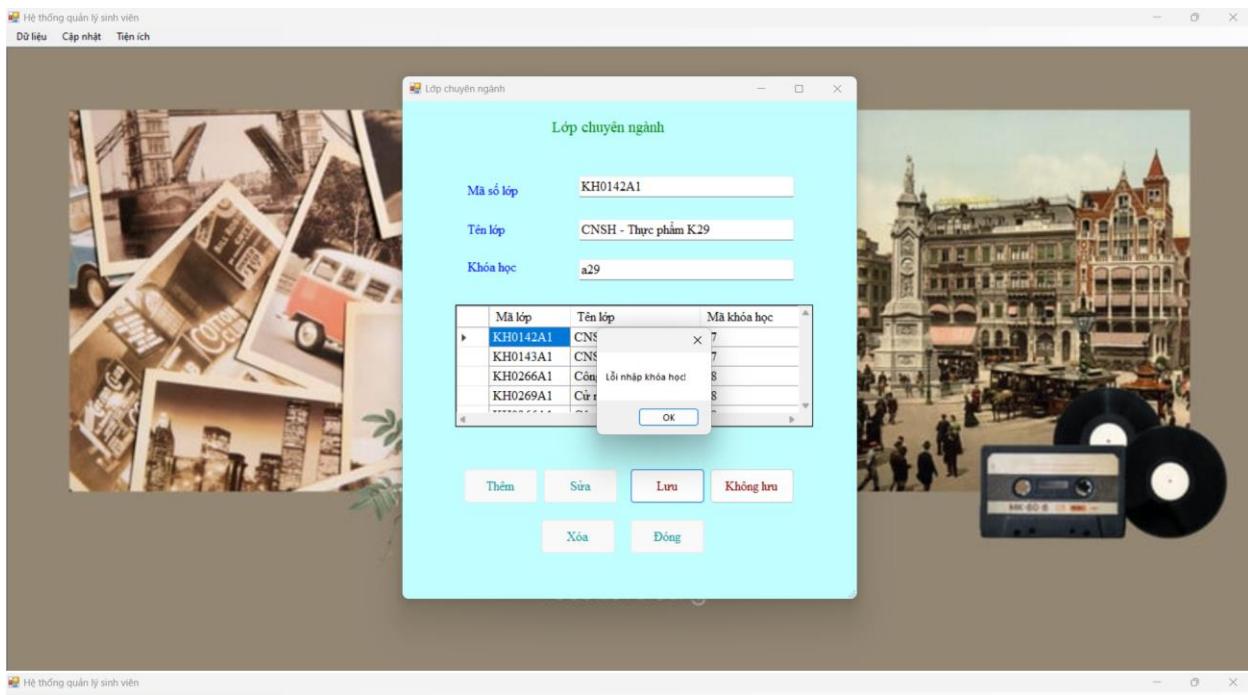


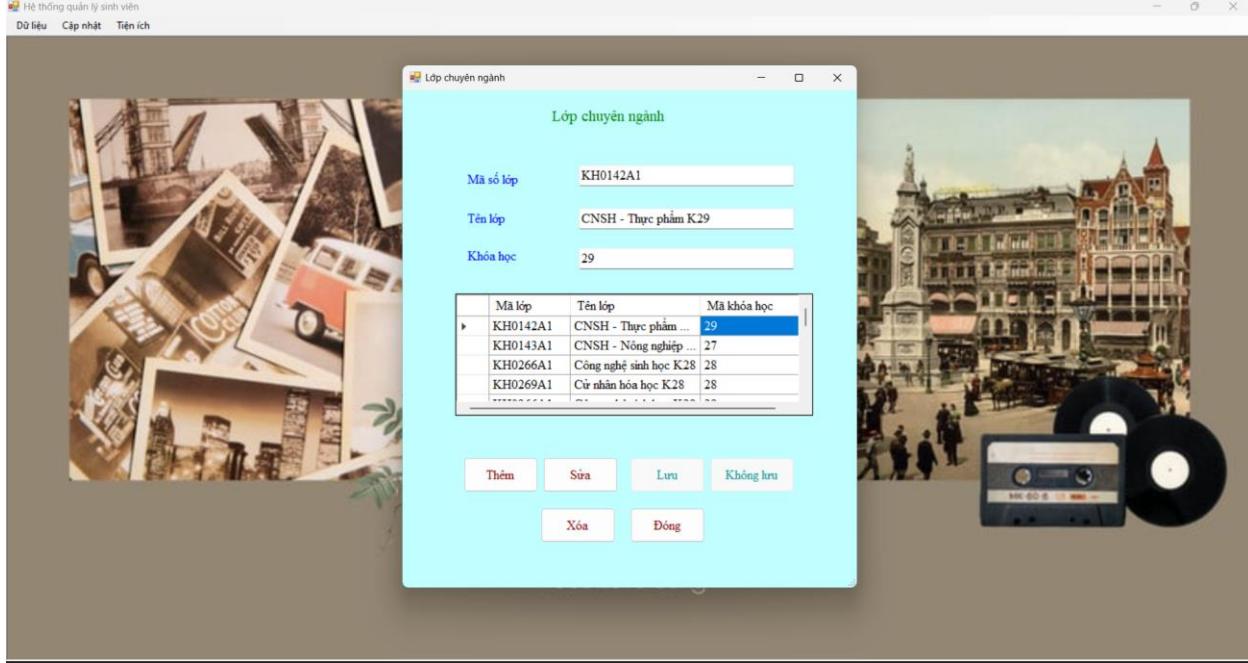
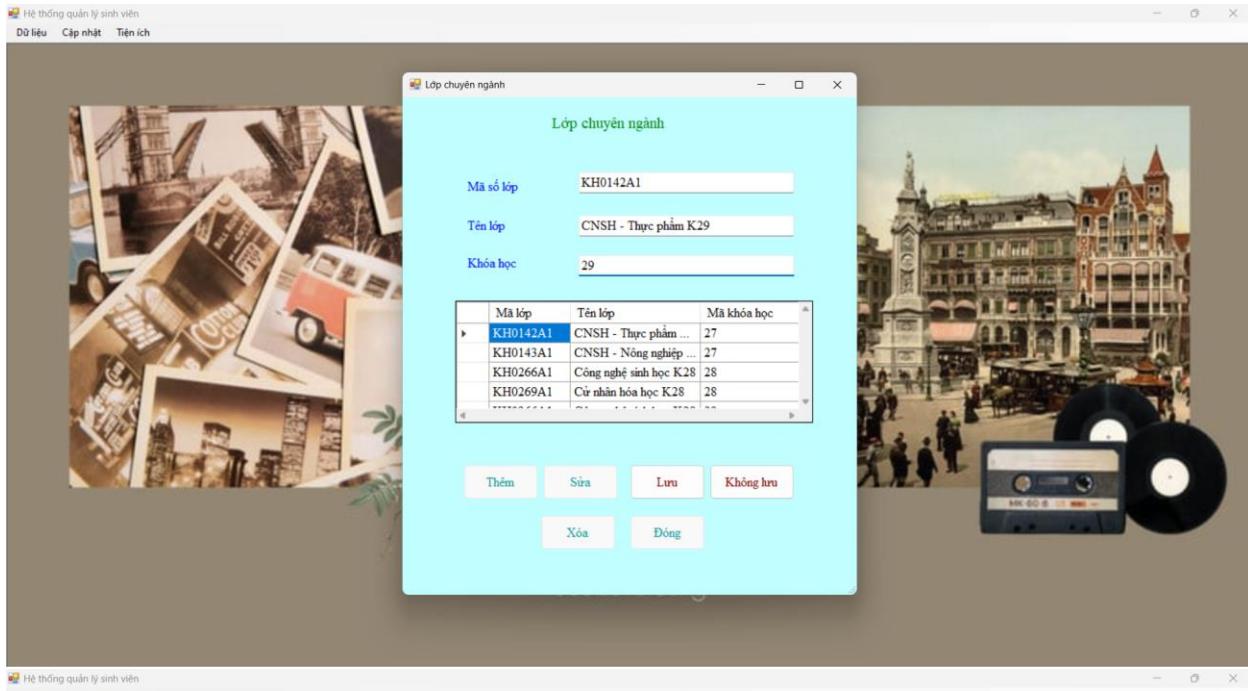


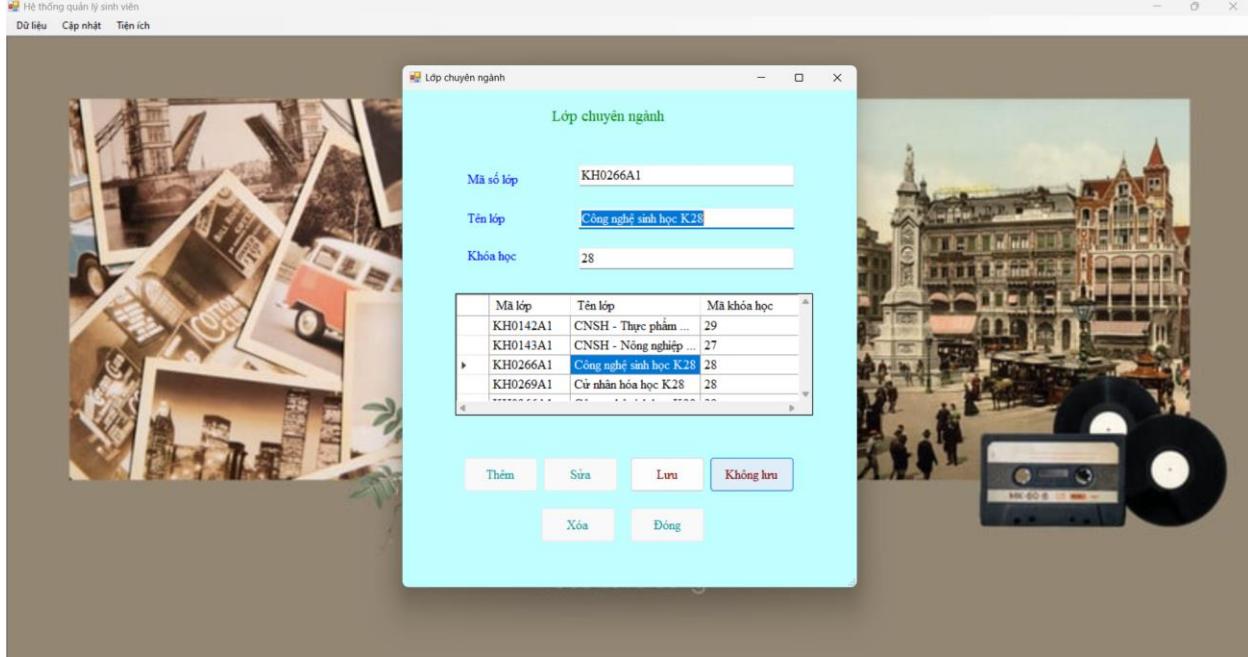
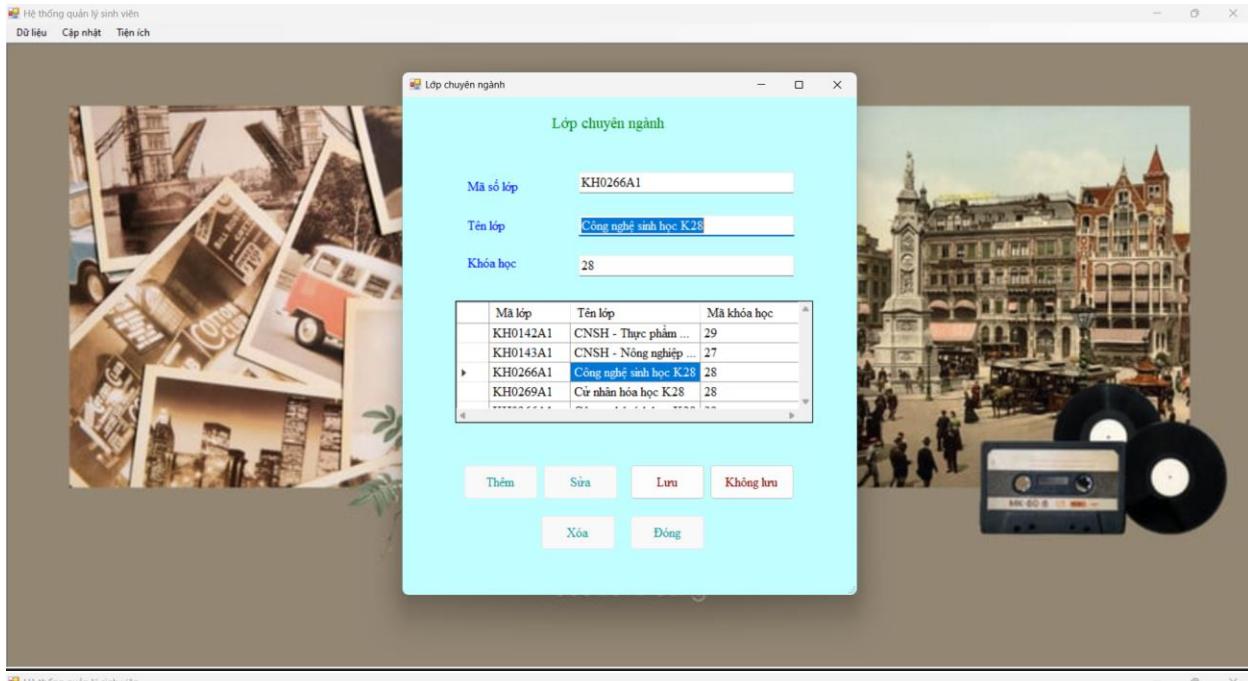


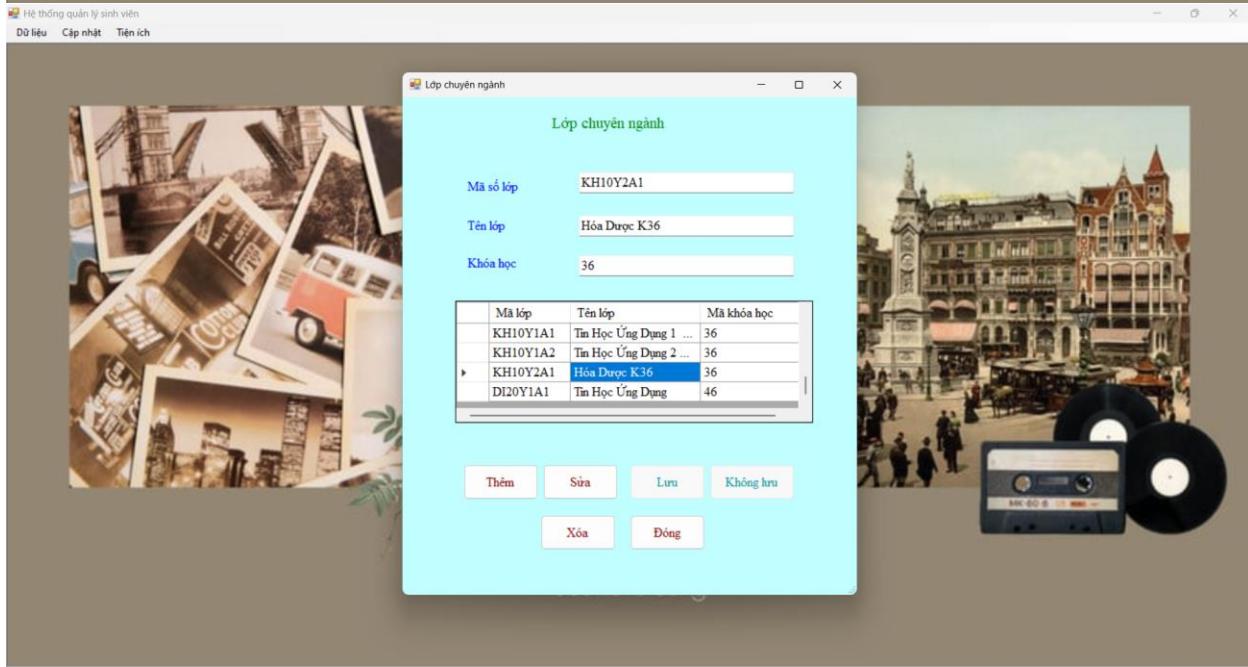
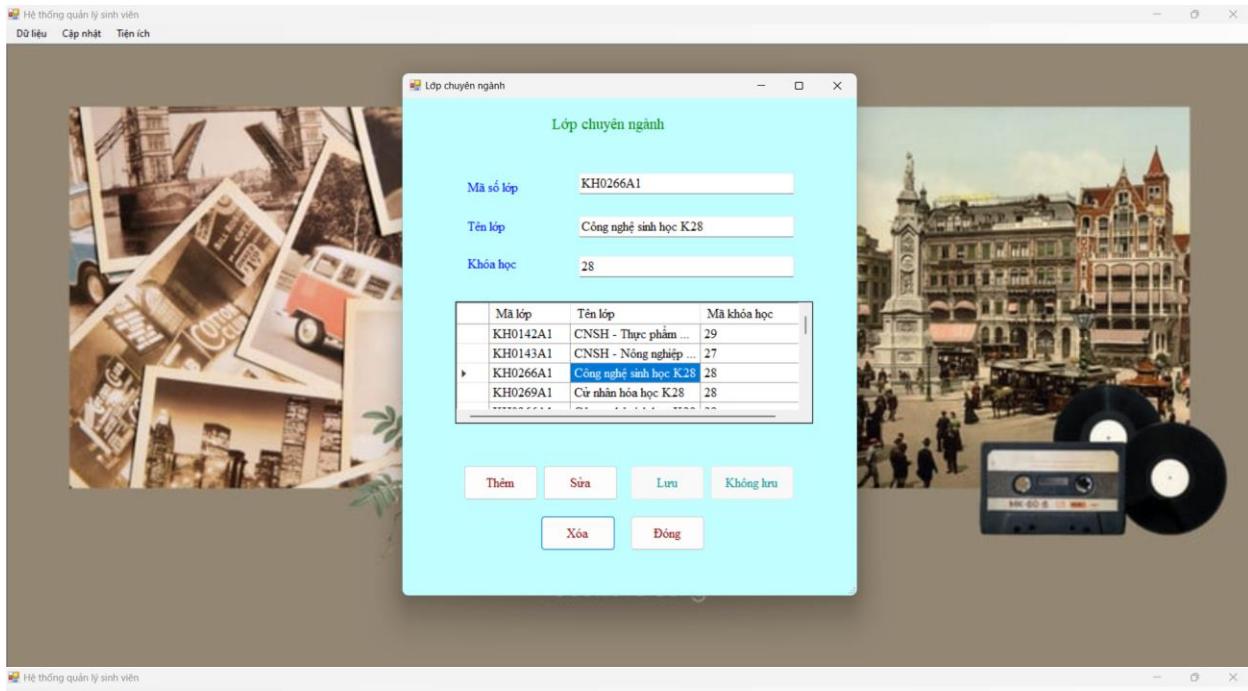


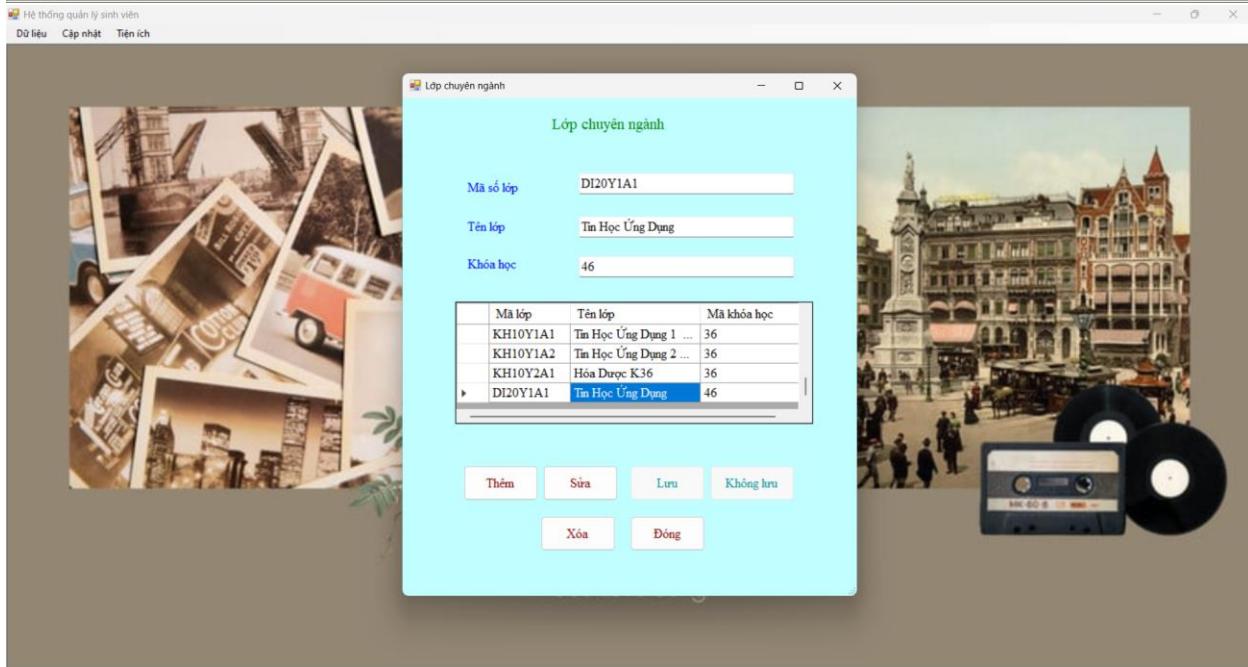
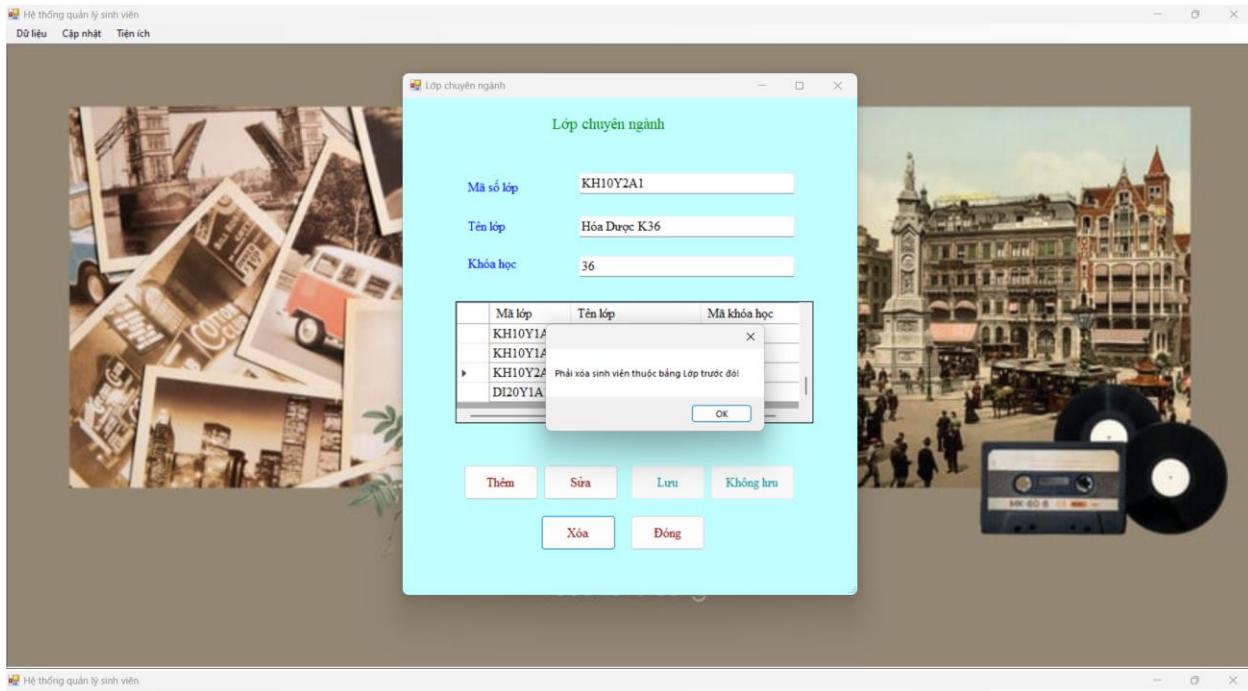


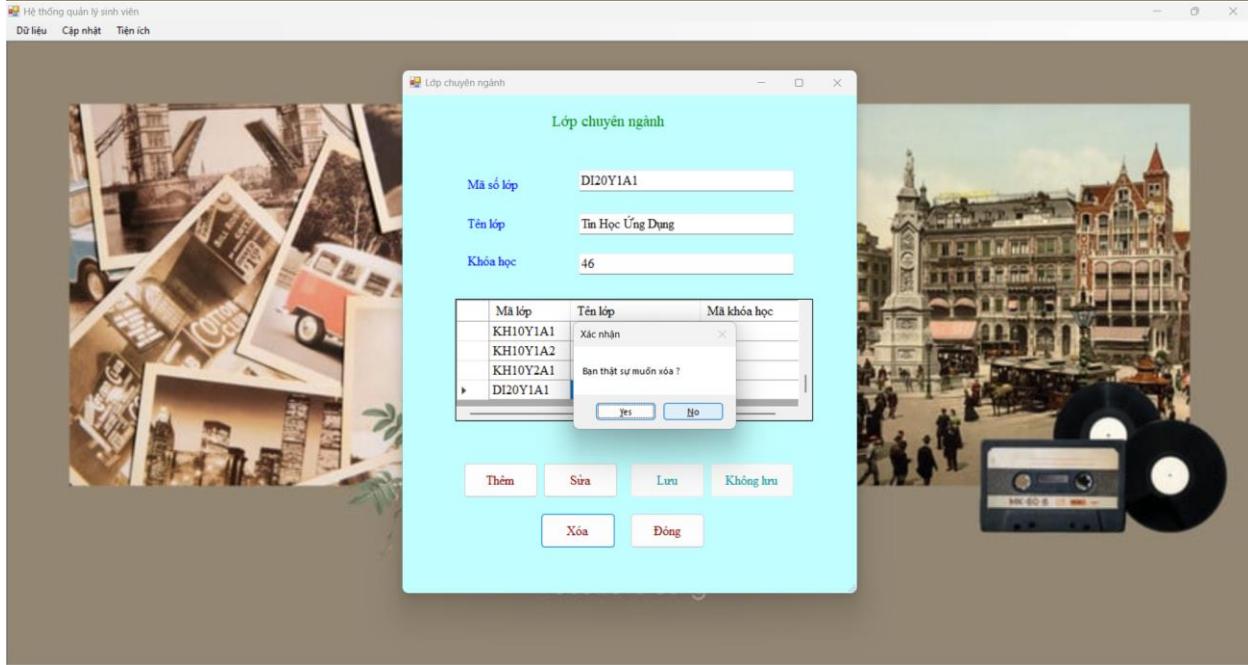
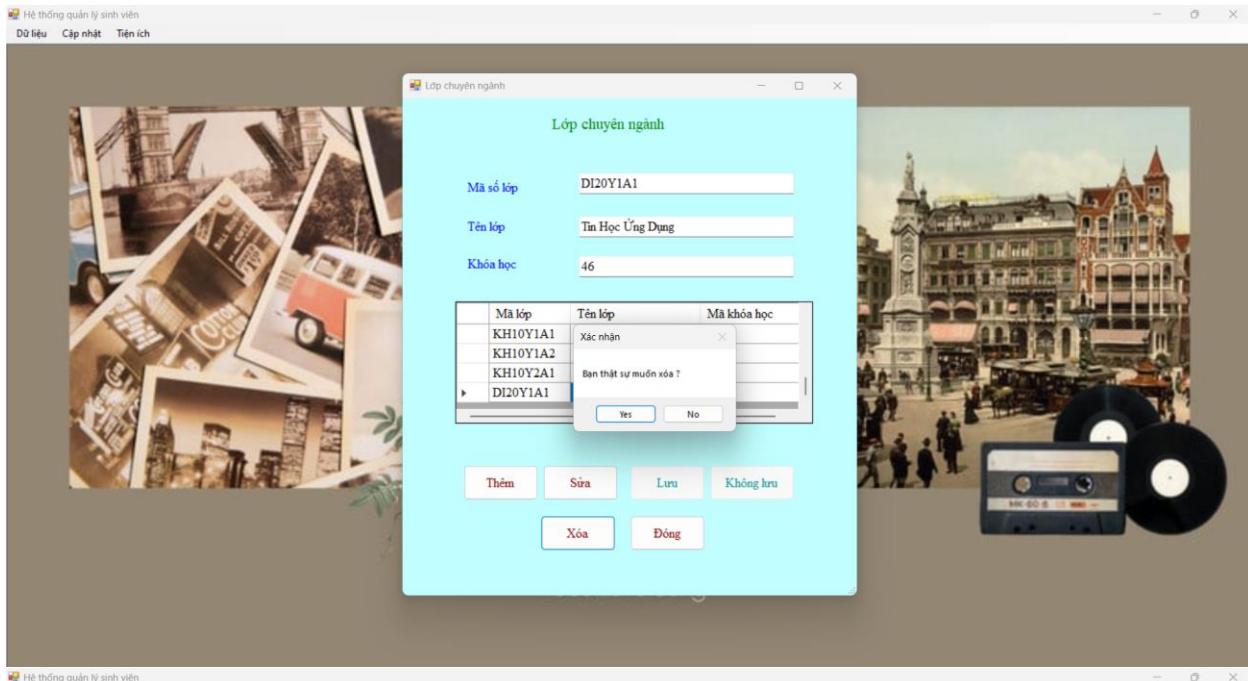


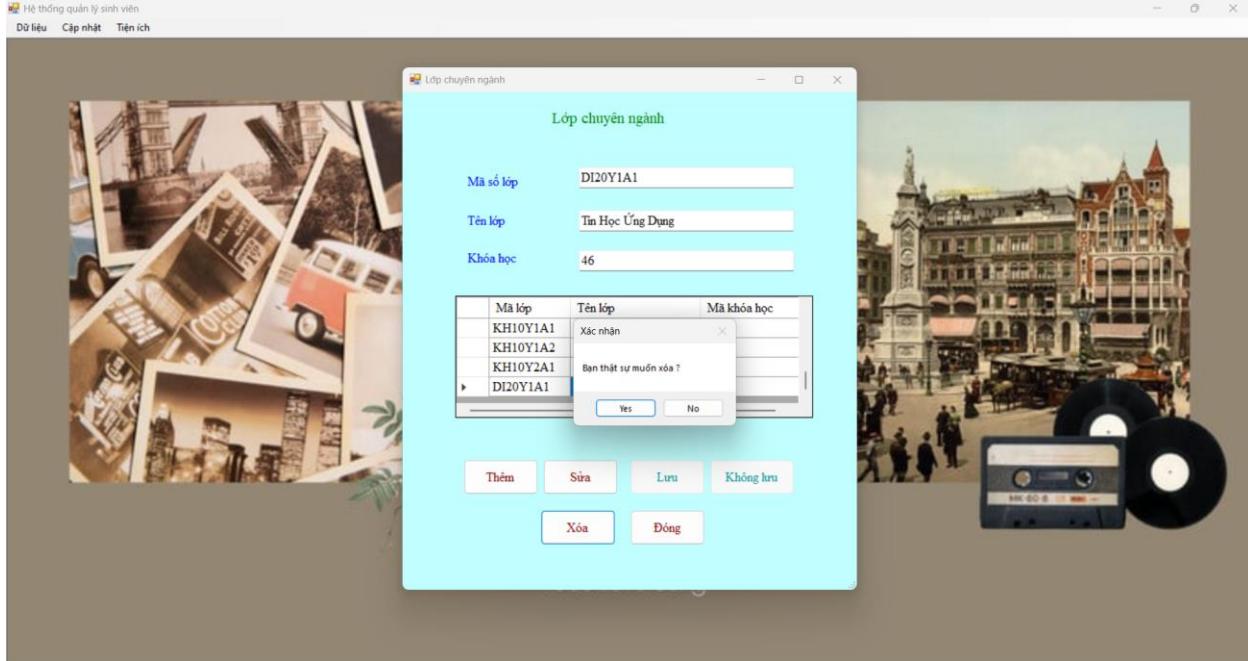
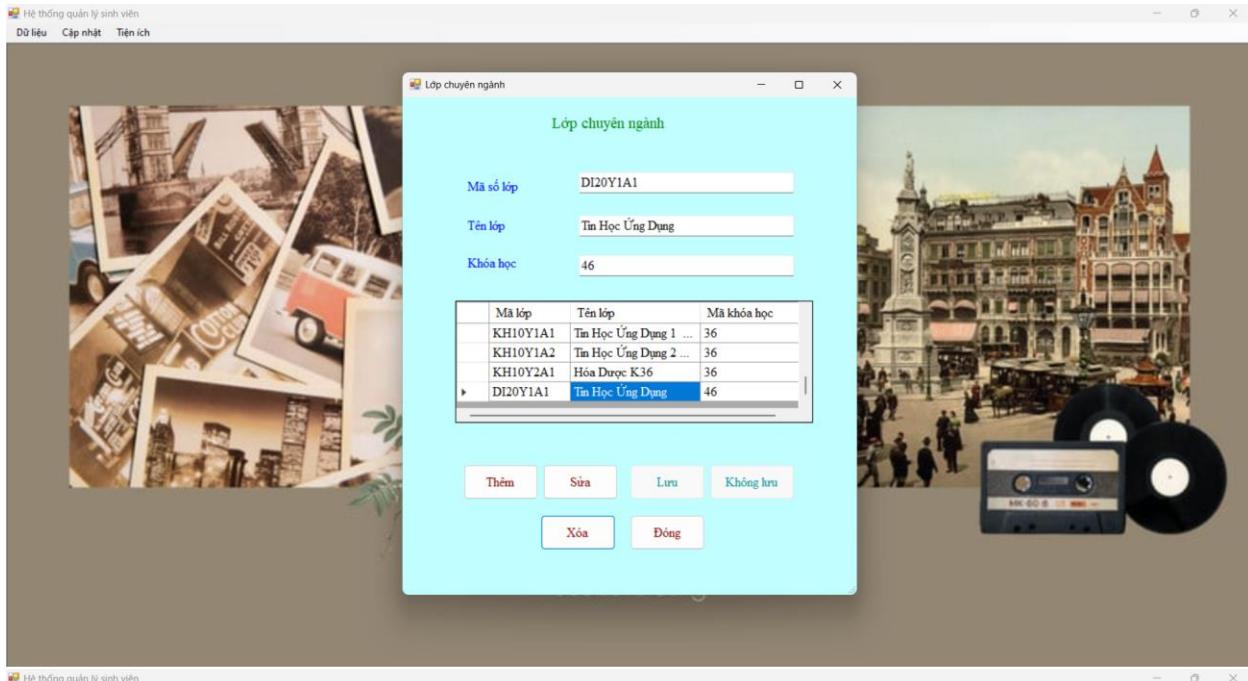


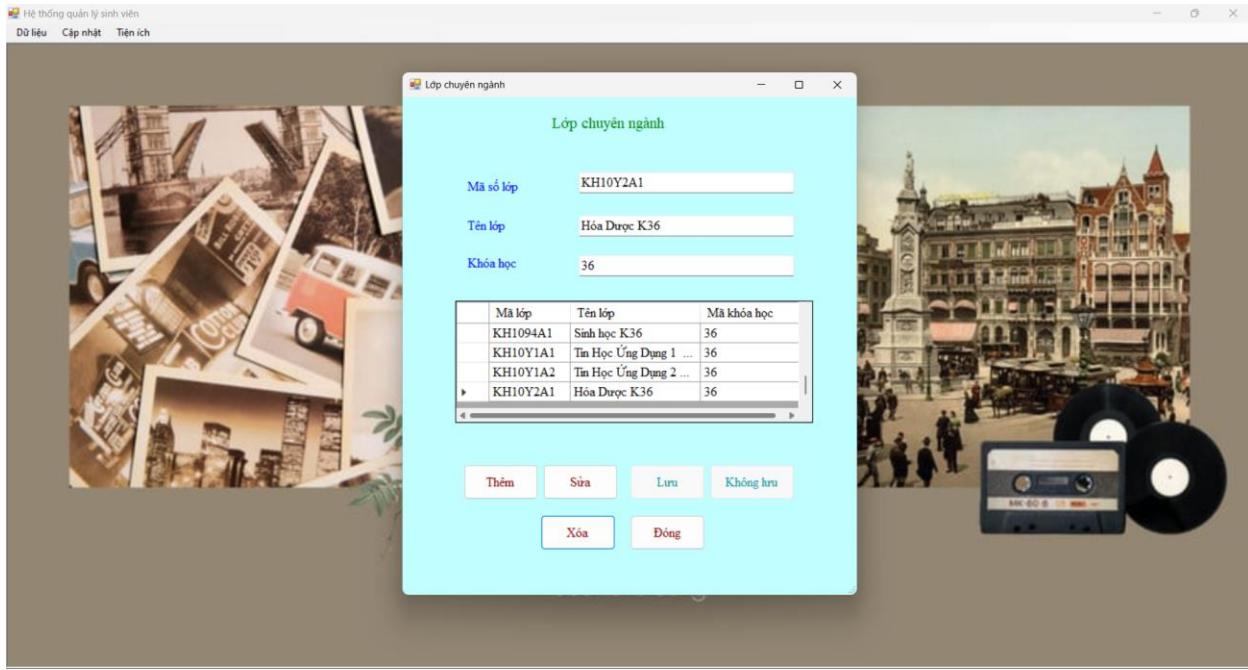




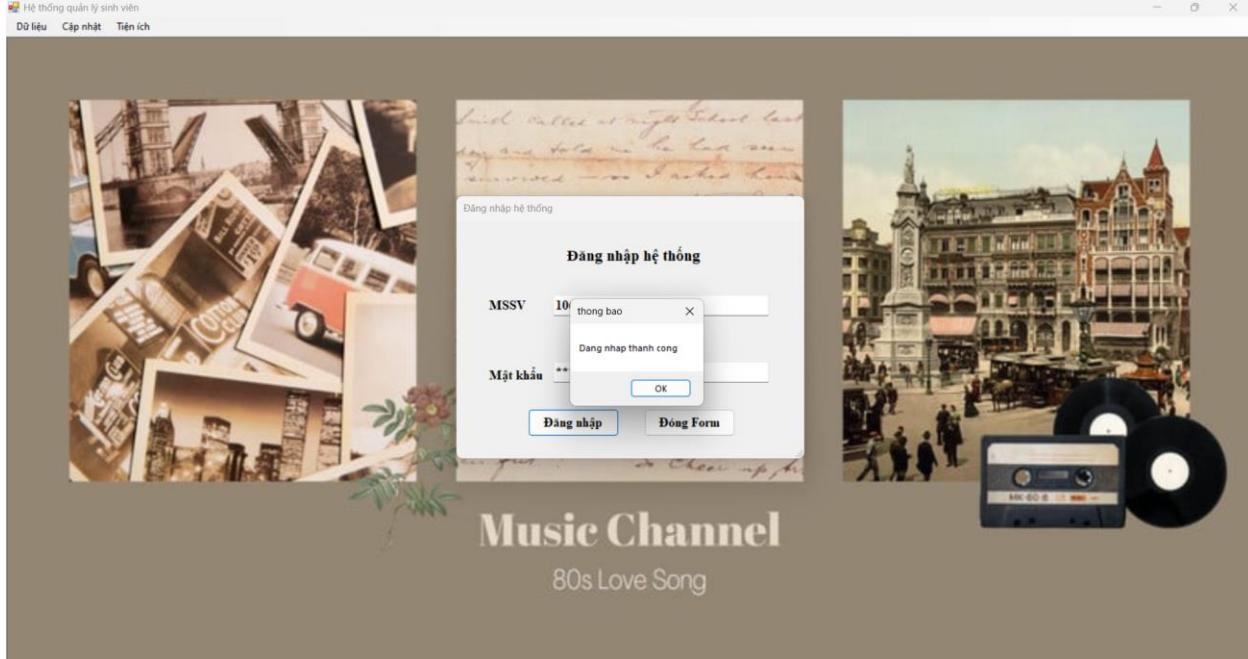
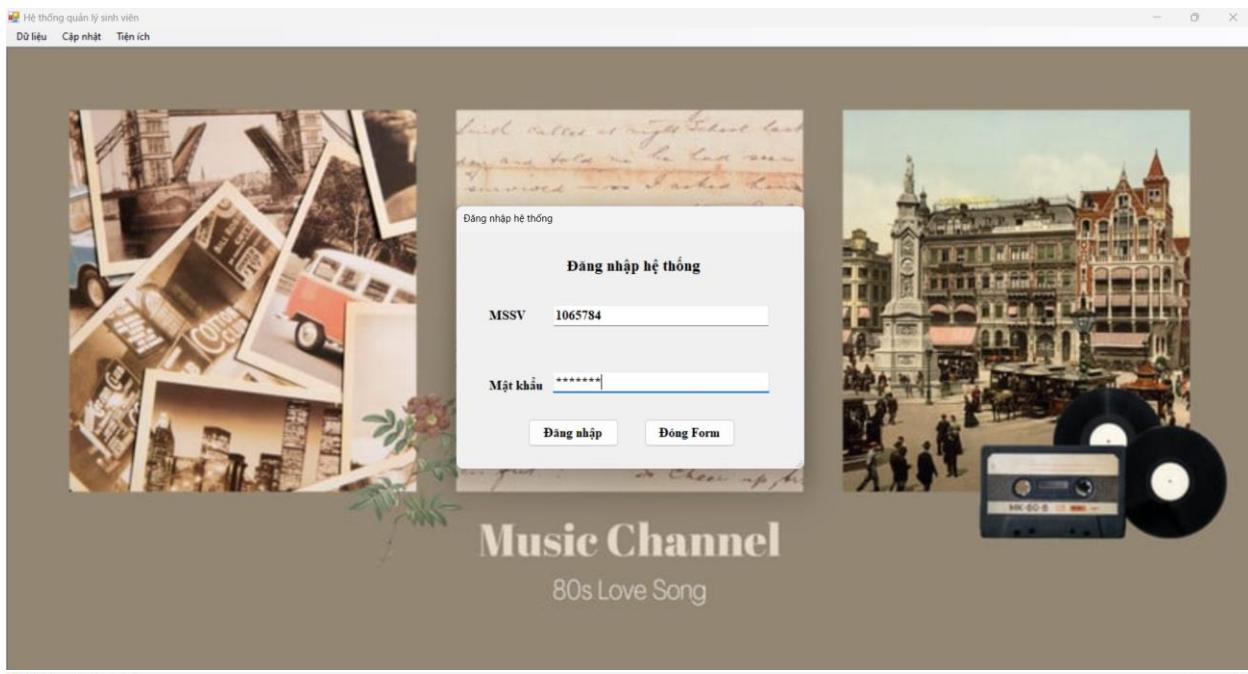


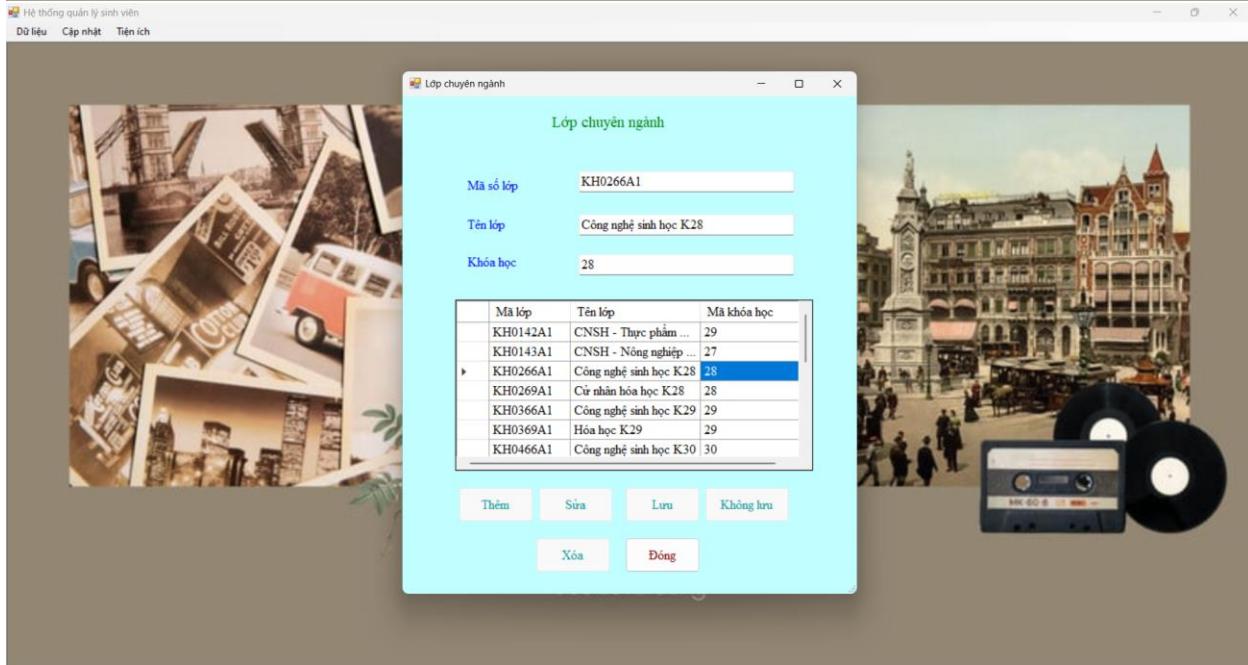
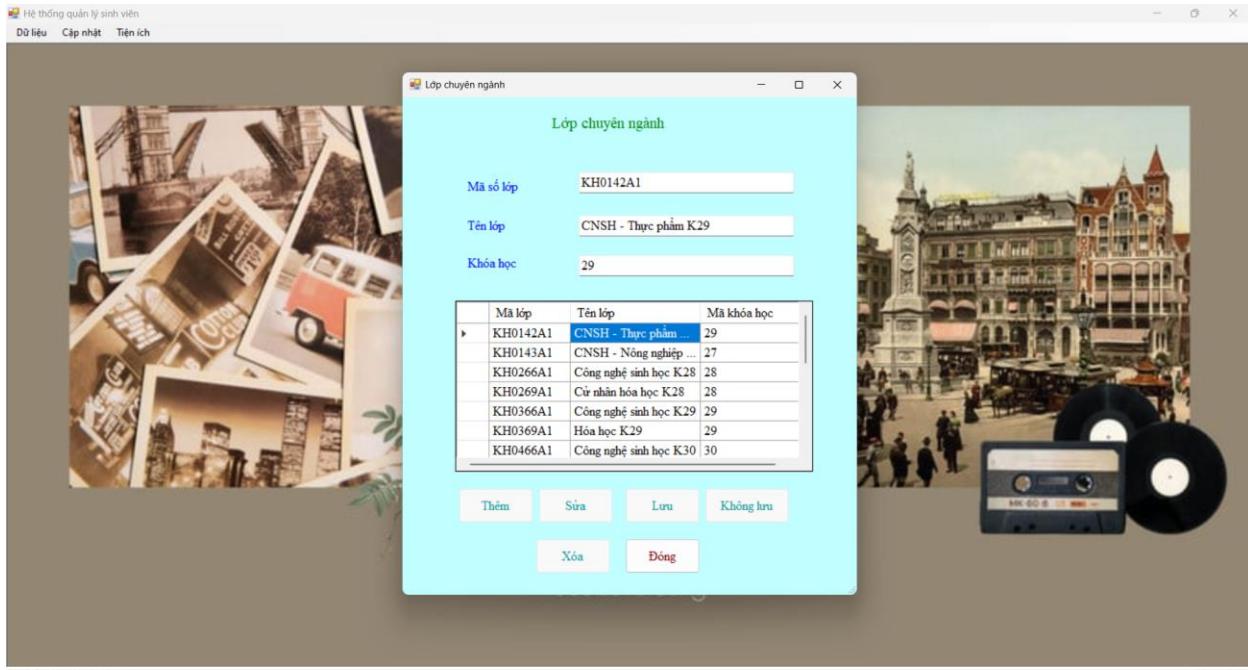


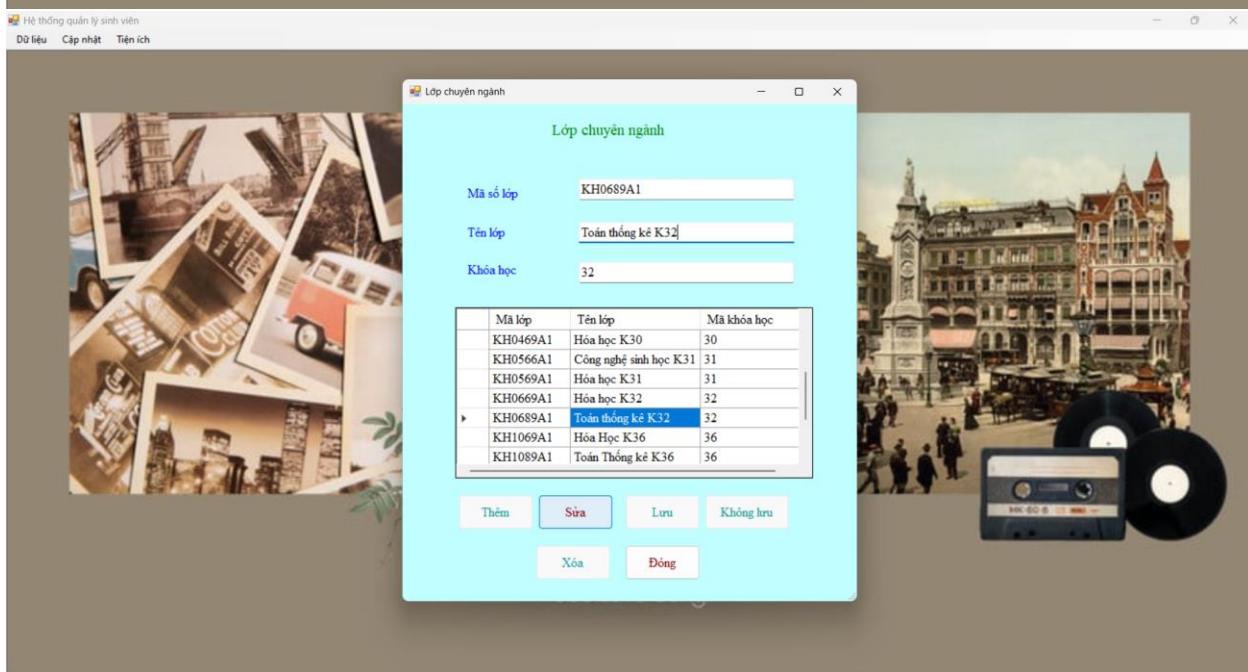
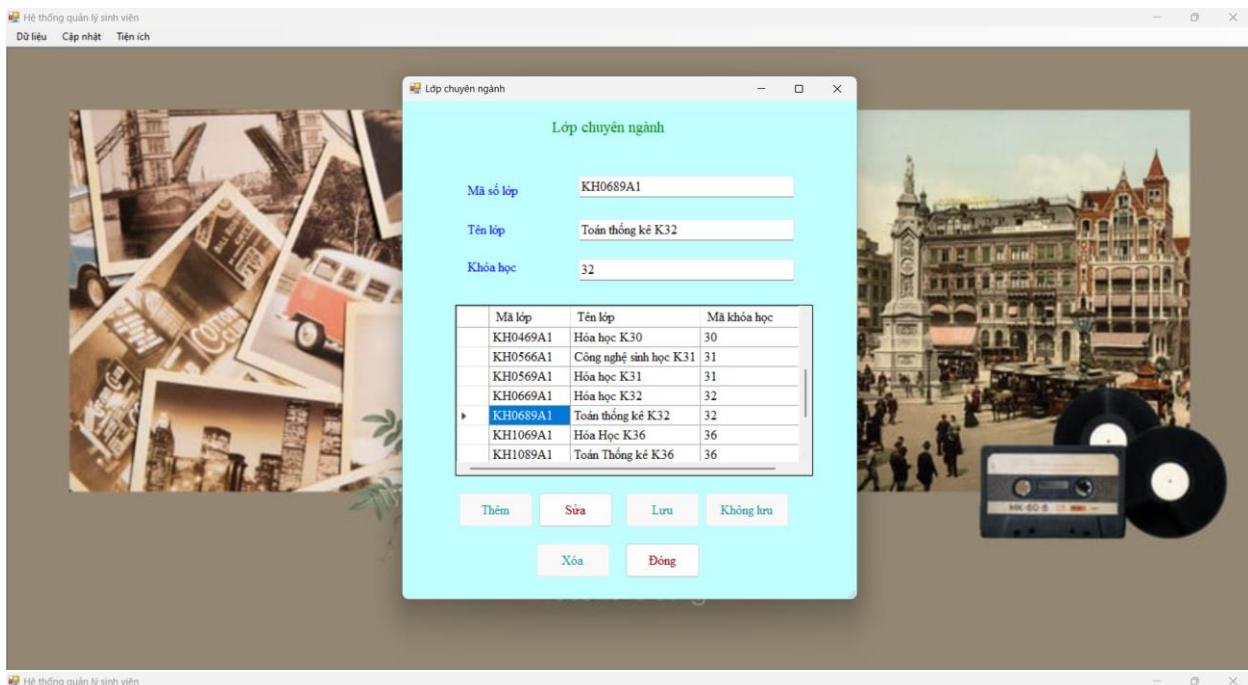


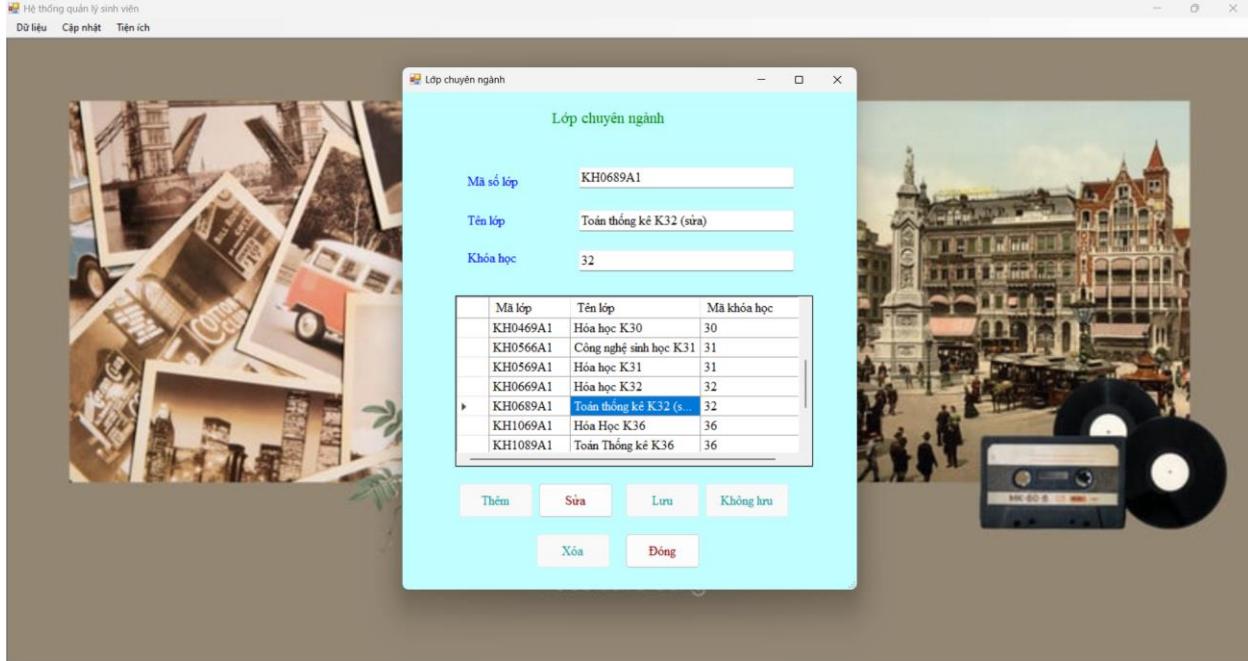
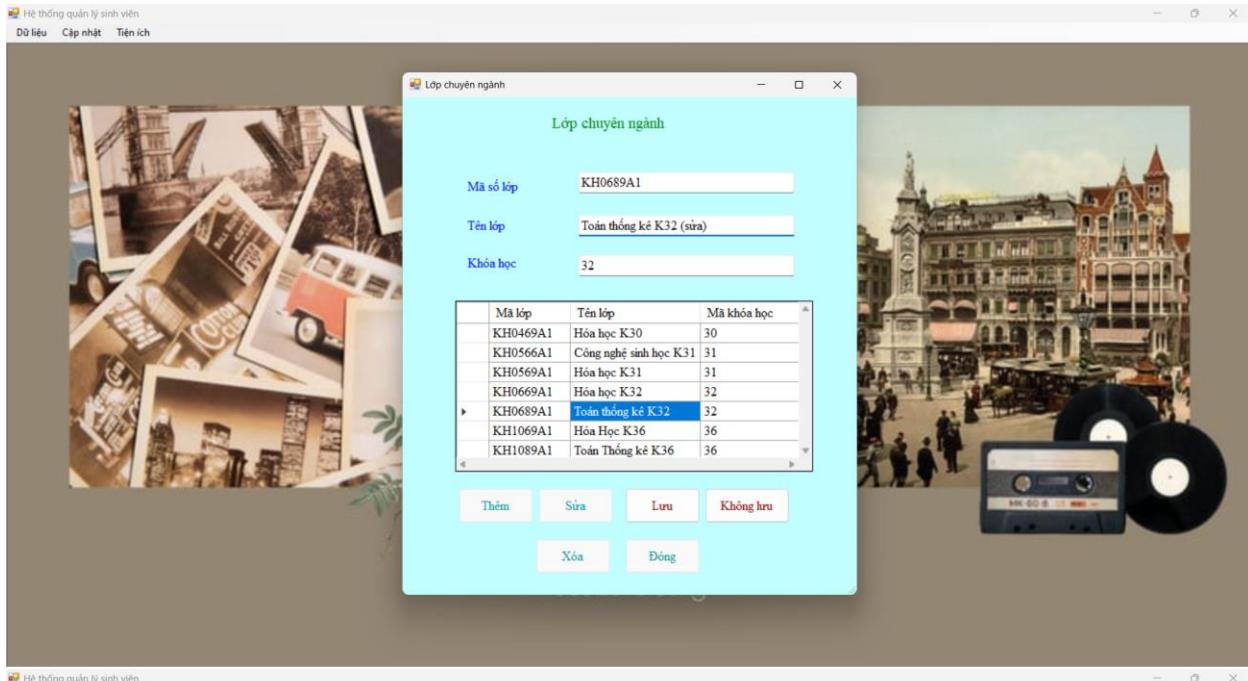


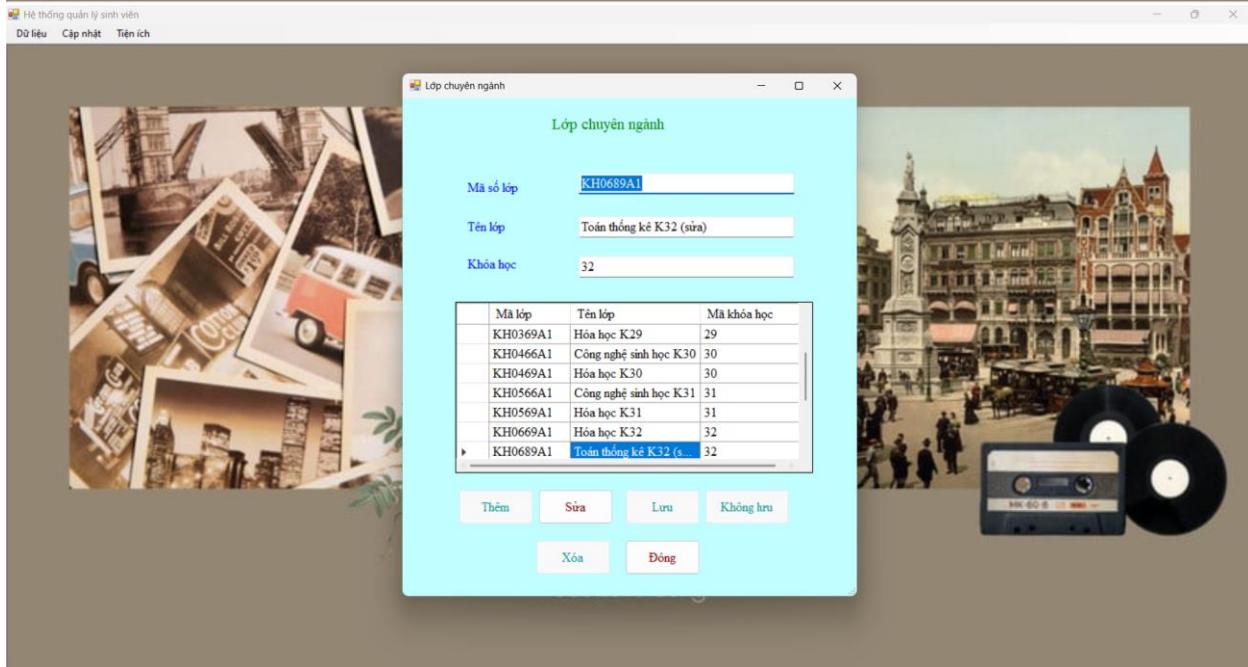
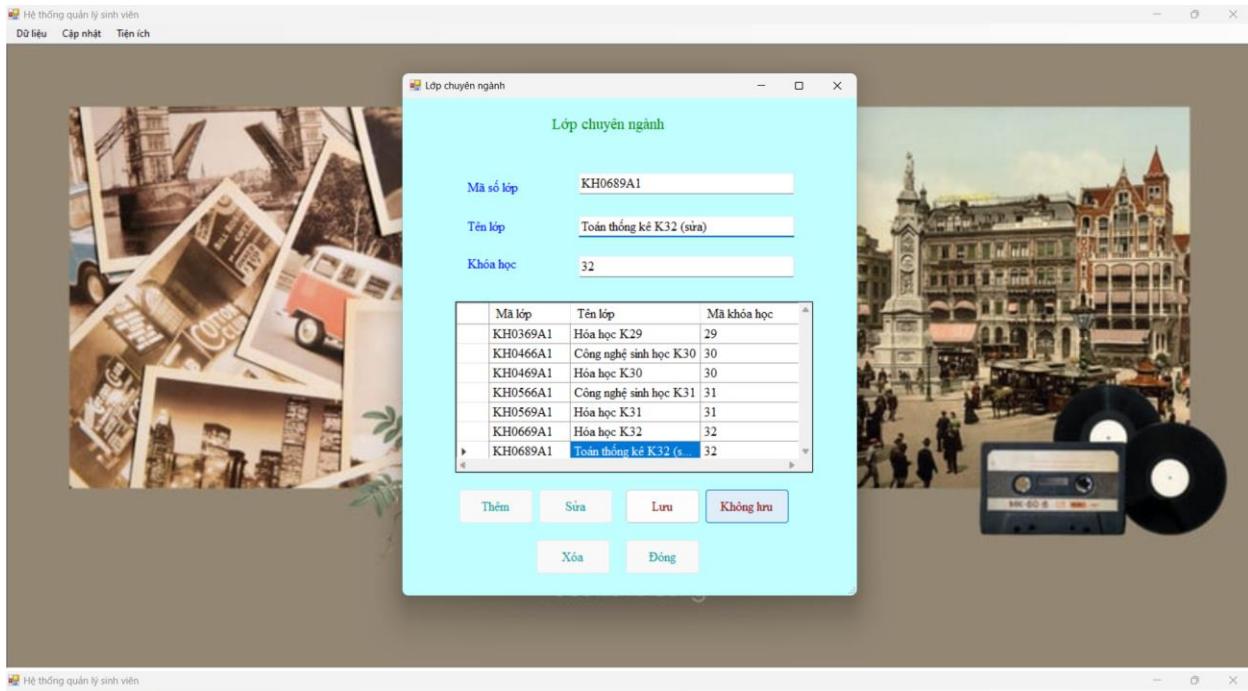
- Admin lớp











○ User

