Proiectarea si implementarea unei interfete pt. vizualizarea si actualizarea evenimentelor de tip schimb valutar - Implementare

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.OleDb;
namespace L02
    public partial class SV : Form
        public SV() {
            InitializeComponent();
        private void SV_Load(object sender, EventArgs e) {
            //DateTime d1 = new DateTime(2020,2,19);
            //dateTimePicker1.Value = d1;
        }
        private void btnAdaugare Click(object sender, EventArgs e) {
        private void btnModificare Click(object sender, EventArgs e) {
            A7();
        private void btnStergere_Click(object sender, EventArgs e) {
            const string mesaj = "Confirmati stergerea";
            const string titlu = "Stergere inregistrare";
            var rezultat = MessageBox.Show(mesaj, titlu, MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning);
            if (rezultat == DialogResult.No) return;
            A8();
        }
        private void btnConfirmare Click(object sender, EventArgs e) {
            A4();
        private void btnRenuntare_Click(object sender, EventArgs e) {
            A3();
        private void A1() {
            //Umple cu date obiectele DataTable: SchimburiValutare , RFSursa, RFDest:
            schimburiValutareTableAdapter.Fill(sVDS.SchimburiValutare);
            rFSursaTableAdapter.Fill(sVDS.RFSursa);
            rFDestTableAdapter.Fill(sVDS.RFDest);
            //Configurare comboBox-uri
            cmbRFSursa.DropDownStyle = ComboBoxStyle.Simple;
            cmbRFDest.DropDownStyle = ComboBoxStyle.Simple;
            //Protectie grid
            dataGridView1.AllowUserToAddRows = false;
            dataGridView1.AllowUserToDeleteRows = false;
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dataGridView1.ReadOnly = true;
    //Protectie txtIdPersoana
    txtIdSV.ReadOnly = true;
    txtMonedaD.ReadOnly = true;
    txtMonedaS.ReadOnly = true;
   A3();
}
private void A2() {
    //Configurare butoane
    configureazaButoane(false);
    //Dezlegare controale Panel
    legareControale(false);
    //Ridicare protectie controale Panel
    protectiePanel(false);
    //Configurare(ComboBox - Uri)
    cmbRFSursa.DropDownStyle = ComboBoxStyle.DropDownList;
    cmbRFDest.DropDownStyle = ComboBoxStyle.DropDownList;
    //Legare comboBox-uri la sursa de date
    cmbRFSursa.DataSource = rFSursaBindingSource;
    cmbRFSursa.DisplayMember = "DRF";
    cmbRFSursa.ValueMember = "IdRF";
    cmbRFDest.DataSource = rFDestBindingSource;
    cmbRFSursa.DisplayMember = "DRF";
    cmbRFSursa.ValueMember = "IdRF";
    //Modifcare lblOp
    lblOp.Text = "ADAUGARE";
    //Pozitionare cursor pe primul camp
    cmbRFSursa.Focus();
    // Golire campuri
    golireCampuri();
}
private void A3() {
    //Configurare comboBox-uri
    cmbRFSursa.DropDownStyle = ComboBoxStyle.Simple;
    cmbRFDest.DropDownStyle = ComboBoxStyle.Simple;
    //Initializare lblOp
   lblOp.Text = "";
    //Configurare(butoane)
    configureazaButoane(true);
    //Protectie componente Panel
   protectiePanel(true);
    //Legare controale
    legareControale(true);
}
private void A4() {
    if (lblOp.Text == "ADAUGARE") {
        if (!validareCampuriObligatorii()) return;
        adauga_inregistrare();
        golireCampuri();
        //Pune cursor pe primul camp
        cmbRFSursa.Focus();
        refresh_grid(schimburiValutareBindingSource.Position);
   else if (lbl0p.Text == "MODIFICARE") {
        if (txtMonedaS.Text == txtMonedaD.Text) {
```

```
MessageBox.Show("Nu puteti avea aceiasi moneda la schimb valutar !");
            return;
        }
        modifica_inregistrare();
        refresh grid(schimburiValutareBindingSource.Position);
        A3();
    }
   else
        MessageBox.Show("Operatie actualizare neefectuata");
}
private void A7() {
    //Configurare butoane
    configureazaButoane(false);
    //Dezlegare controale Panel
    legareControale(false);
    //Ridicare protectie controale Panel
    protectiePanel(false);
    //Configurare(ComboBox - Uri)
    cmbRFSursa.DropDownStyle = ComboBoxStyle.DropDownList;
    cmbRFDest.DropDownStyle = ComboBoxStyle.DropDownList;
    //Legare comboBox-uri la sursa de date
    cmbRFSursa.DataSource = rFSursaBindingSource;
    cmbRFSursa.DisplayMember = "DRF";
    cmbRFSursa.ValueMember = "IdRF";
    cmbRFDest.DataSource = rFDestBindingSource;
    cmbRFDest.DisplayMember = "DRF";
    cmbRFDest.ValueMember = "IdRF";
    //Modifcare lblOp
    lblOp.Text = "MODIFICARE";
    //Pozitionare cursor pe primul camp
   dateTimePicker1.Focus();
}
private void A8() {
    OleDbConnection con = new OleDbConnection();
    OleDbCommand cmd = new OleDbCommand();
   OleDbDataReader r;
    con.ConnectionString = schimburiValutareTableAdapter.Connection.ConnectionString;
    cmd.Connection = con;
    cmd.CommandText = "Delete From SchimburiValutare Where IdSV = " + txtIdSV.Text;
   MessageBox.Show(cmd.CommandText);
    con.Open();
    cmd.ExecuteNonQuery();
    con.Close();
    refresh grid(schimburiValutareBindingSource.Position);
}
private void configureazaButoane(bool v) {
    btnRenuntare.Visible = !v;
    btnConfirmare.Visible = !v;
    btnAdaugare.Enabled = v;
    btnModificare.Enabled = v;
   btnStergere.Enabled = v;
}
private void legareControale(bool v) {
    if (v) {
```

```
txtCantitateS.DataBindings.Add("Text", schimburiValutareBindingSource, "CantitateS");
        txtCantitateD.DataBindings.Add("Text", schimburiValutareBindingSource, "CantitateD");
        cmbRFSursa.DataBindings.Clear();
        cmbRFDest.DataBindings.Clear();
        cmbRFSursa.DataBindings.Add("Text", schimburiValutareBindingSource, "DRFSursa");
cmbRFDest.DataBindings.Add("Text", schimburiValutareBindingSource, "DRFDest");
        txtIdSV.DataBindings.Add("Text", schimburiValutareBindingSource, "IdSV");
        dateTimePicker1.DataBindings.Add("Text", schimburiValutareBindingSource, "DataSV");
        txtMonedaS.DataBindings.Clear();
        txtMonedaD.DataBindings.Clear();
        txtMonedaS.DataBindings.Add("Text", schimburiValutareBindingSource, "MonedaSursa");
        txtMonedaD.DataBindings.Add("Text", schimburiValutareBindingSource, "MonedaDest");
    }
    else
         {
        txtCantitateS.DataBindings.Clear();
        txtCantitateD.DataBindings.Clear();
        cmbRFSursa.DataBindings.Clear();
        cmbRFDest.DataBindings.Clear();
        txtIdSV.DataBindings.Clear();
        dateTimePicker1.DataBindings.Clear();
        txtMonedaS.DataBindings.Clear();
        txtMonedaD.DataBindings.Clear();
    }
}
private void protectiePanel(bool v) {
    txtCantitateS.ReadOnly = v;
    txtCantitateD.ReadOnly = v;
    cmbRFSursa.Enabled = !v;
    cmbRFDest.Enabled = !v;
private void golireCampuri() {
    txtCantitateS.Text = "'
    txtCantitateD.Text = "";
    cmbRFSursa.SelectedIndex = -1;
    cmbRFDest.SelectedIndex = -1;
    txtMonedaS.Text = "";
    txtMonedaD.Text = "";
    txtIdSV.Text = "";
    dateTimePicker1.Value = DateTime.Now ;
}
private bool validareCampuriObligatorii() {
    //Validare de completare obligatorie campurile: CantateS, CantitateD, cmbDRFSursa, cmbDRFDest
    if (txtCantitateS.Text == "") {
        MessageBox.Show("Completati Suma sursa !");
        txtCantitateS.Focus();
        return false:
    if (txtCantitateD.Text == "") {
        MessageBox.Show("Completati Suma destinatie !");
        txtCantitateD.Focus();
        return false;
    if (cmbRFSursa.Text == "") {
        MessageBox.Show("Completati RF Sursa !");
        cmbRFSursa.Focus();
        return false;
    if (cmbRFDest.Text == "") {
        MessageBox.Show("Completati RF Dest !");
        cmbRFDest.Focus();
        return false;
    }
    return true;
}
```

```
private void refresh grid(int p) {
            sVDS.SchimburiValutare.Clear();
            schimburiValutareTableAdapter.Fill(sVDS.SchimburiValutare);
            schimburiValutareBindingSource.Position = p;
        }
        private void adauga_inregistrare() {
            string listaCampuri;
            string listaValori;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString = schimburiValutareTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            listaCampuri = "DataSV, idRFSursa, idRFDest, CantitateS, CantitateD";
            listaValori = "#" + dateTimePicker1.Value.Month + "/" + dateTimePicker1.Value.Day + "/" +
dateTimePicker1.Value.Year + "#," +
                          cmbRFSursa.SelectedValue + "," + cmbRFDest.SelectedValue + "," +
txtCantitateS.Text + "," + txtCantitateD.Text;
            cmd.CommandText = "Insert into SchimburiValutare(" + listaCampuri + ") Select " + listaValori;
            MessageBox.Show(cmd.CommandText);
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void modifica inregistrare() {
            string listaSet;
            OleDbConnection con = new OleDbConnection();
            OleDbCommand cmd = new OleDbCommand();
            con.ConnectionString = schimburiValutareTableAdapter.Connection.ConnectionString;
            cmd.Connection = con;
            listaSet = "Set DataSV = #" + dateTimePicker1.Value.Month + "/" + dateTimePicker1.Value.Day +
                       "/" + dateTimePicker1.Value.Year + "#," +
            "idRFSursa = " + cmbRFSursa.SelectedValue + "," +
            "idRFDest = " + cmbRFDest.SelectedValue + "," +
            "CantitateS = " + txtCantitateS.Text + "
            "CantitateD = " + txtCantitateD.Text;
            cmd.CommandText = "Update SchimburiValutare " + listaSet + " Where IdSV=" + txtIdSV.Text;
            MessageBox.Show(cmd.CommandText);
            con.Open();
            cmd.ExecuteNonQuery();
            con.Close();
        }
        private void cmbRFSursa SelectedIndexChanged(object sender, EventArgs e) {
            DataTable t;
            int x;
            if (lbl0p.Text == "") return;
            if (cmbRFSursa.Text =="" ) return;
            x=(int)cmbRFSursa.SelectedValue;
            t = sVDS.RFSursa;
            DataRow y = t.Rows.Find(x);
            txtMonedaS.Text = y[2].ToString();
        }
        private void cmbRFDest_SelectedIndexChanged(object sender, EventArgs e) {
            DataTable t;
            int x;
            if (lbl0p.Text == "") return;
            if (cmbRFDest.Text == "") return;
            x = (int)cmbRFDest.SelectedValue;
            t = sVDS.RFDest;
            DataRow y = t.Rows.Find(x);
            txtMonedaD.Text = y[2].ToString();
        }
```

}