



Universidade Lusófona de Humanidade e Tecnologias

Licenciatura em Informática (Ramo de Sistemas)

TRABALHO FINAL — FIM DE CURSO

TRABALHO PRÁTICO

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Índice

Introdução

No âmbito do projecto final do curso de informática da Universidade Lusófona de Humanidades e tecnologias, escolhi como projecto final um desenvolvimento que tenho em mãos neste momento.

Esse desenvolvimento consiste em desenvolver um software de gestão de infantários para o infantário A Fonte do Miminho, tendo sido o universo discusso obtido através de reuniões com o Senhor Ricardo Espírito Santo responsável pela gestão do infantário, assim como três lojas de retalho de artigos de vestuário e afins.

Este desenvolvimento surgiu da necessidade que o Senhor Ricardo tinha de ter um software á medida capaz de responder minimamente ás exigencias da gestão do infantário.

Neste sentido o software irá abranger até finais de 2006 uma série de funcionalidades que irão certamente facilitar a vida da pessoa responsável pela gestão do infantário.

Pretendo neste projecto explorar novas ideias relativamente ao software homólogo existente, pois penso que é absolutamente necessário para a construção de um software de qualidade com alicerces sólidos, em que o cliente sairá mais satisfeito.

Este software tem um dos objectivos ajudar o gestor do infantário a reduzir os custos, melhorar a flexibilidade, e a confiança. Para isso irão de base ser disponibilizadas análises para o efeito. No entanto o gestor poderá sempre construir as suas próprias

Este software tem como ambição tornar-se um produto totalmente comercializável dentro do seu âmbito de abrangência. Pretende-se a criação de um software de qualidade que responda de um modo capaz ás necessidades dos infantários e jardins escola.

O software apresentará as mais diversas funcionalidades, no entanto o seu desenvolvimento completo, terá previsivelmente uma duração de dois anos a dois anos e meio.

As funcionalidades presentes no projecto neste momento para demonstração serão:

- Gestão Alunos
- Gestão Turmas
- Gestão e Controlo do encarregado de educação
- Ficha clínica
- Actividades
- Análises

Nota: Não foi incluído o módulo de facturação referido na ficha de estágio uma vez que o mesmo se encontra ainda em desenvolvimento, no entanto poderá ter-se uma ideia do seu aspecto pelo respectivo ecrã de apresentação assim como pelo modelo funcional.

O software funcionará em monoposto ou multiposto.

Este software está instalado em produção no infantário “A Fonte do Miminho”, sofrendo actualização semanal com a correcção de “bugs” e com a introdução de novas funcionalidades á medida que as mesmas estejam completas.

Tecnologia

As tecnologias base que estão a ser utilizadas no projecto são:

- Linguagem de programação aplicacional Microsoft C# 2005
- T-SQL como linguagem de manipulação de dados
- O sistema gestor de base de dados é o SQL 2000.

MSDE é o motor principal da aplicação em termos de base de dados pois a previsão de crescimento de dados em termos dos infantários, é pequena, então projecto que os 2GB oferecidos por este motor são suficientes para este tipo de aplicação, no entanto o sistema permite a evolução para a versão standard do SQL.

Foi ainda utilizado o PowerDesigner 10 como ferramenta de modulação.

Funcionalidades Gerais em desenvolvimento ou em beta 1

- Gestão Alunos
- Gestão Turmas
- Registo Fotográfico (Criança/Pais/Pessoa autorizada a levantar a criança)
- Gestão de candidatos
 - Dados gerais
 - Financeiros
 - Familiares
 - Sociais
- Gestão e Controlo dos encarregados de educação
- Gestão de funcionários
- Conta corrente de funcionários e alunos
- Facturação (fraccionada ou não)
- Recibos
- Listagens e ou análises
- Controlo e previsão de lucro
- Gestão de incidentes
- Registo de avaliações
- Gestão tratamentos
- Fichas clínicas
 - Cuidados
 - Histórico
 - Medicamentos
 - Vacinas
- Gestão Stocks
- Geração de alertas
- Gestão mailing
- Facturação automática
- Gestão de compras e encomendas
- Gestão de fornecedores
- C/C fornecedores
- Gestão de actividades

- Gestão viaturas
 - Despesas
 - Manutenções
- Descontos
- Gestão Refeitório
- Funcionários Turmas
- Meios de Pagamento
- Presenças
- Eventos
- Observações
- Cópias de Segurança/Recuperação de dados
- Disciplinas
- Iva

Código C#

Classes

Actividade.cs

```
/*
 * Module:  Actividade.cs
 * Author:  di_nuno
 * Purpose: Definition of the Class Actividade
 */

using System;

public class Actividade
{
    private string c_codigo;
    private string c_DesignacaoAct;
    private decimal c_PrecoAct;
    private decimal c_IdadeMinima;
    private decimal c_IdadeMaxima;
    private decimal c_NFunNec;
    private string c_Tipo;
    private DateTime c_DataInicio;
    private DateTime c_DataFim;
    private string c_HoraInicio;
    private string c_HoraFim;
    private string c_Caracter;
    private string c_ObsAc;
    //private TurmaContemActi TurmaContemActi;

    public Actividade() { }

    public Actividade(string codAct, string designacao,
                      decimal preAct, decimal idaMin,
                      decimal idaMax, decimal numFun,
                      string tipo, DateTime datIni,
                      DateTime datFim, string horIni,
```

```
        string horFim, string caracter,
        string obs)
{
    C_codigo = codAct;
    C_DesignacaoAct = designacao;
    C_PrecoAct = preAct;
    C_IdadeMinima = idaMin;
    C_IdadeMaxima = idaMax;
    C_NFunNec = numFun;
    C_Tipo = tipo;
    C_DataInicio = datIni;
    C_DataFim = datFim;
    C_HoraInicio = horIni;
    C_HoraFim = horFim;
    C_Caracter = caracter;
    C_ObsAc = obs;
}

public string C_codigo
{
    get { return c_codigo; }
    set { c_codigo = value; }
}

public string C_DesignacaoAct
{
    get { return c_DesignacaoAct; }
    set { c_DesignacaoAct = value; }
}

public decimal C_PrecoAct
{
    get { return c_PrecoAct; }
    set { c_PrecoAct = value; }
}

public decimal C_IdadeMinima
{
    get { return c_IdadeMinima; }
    set { c_IdadeMinima = value; }
}

public decimal C_IdadeMaxima
{
    get { return c_IdadeMaxima; }
    set { c_IdadeMaxima = value; }
}

public decimal C_NFunNec
{
    get { return c_NFunNec; }
    set { c_NFunNec = value; }
}

public string C_Tipo
```

```
{
    get { return c_Tipo; }
    set { c_Tipo = value; }
}

public DateTime C_DataInicio
{
    get { return c_DataInicio; }
    set { c_DataInicio = value; }
}

public DateTime C_DataFim
{
    get { return c_DataFim; }
    set { c_DataFim = value; }
}

public string C_HoraInicio
{
    get { return c_HoraInicio; }
    set { c_HoraInicio = value; }
}

public string C_HoraFim
{
    get { return c_HoraFim; }
    set { c_HoraFim = value; }
}

public string C_Caracter
{
    get { return c_Caracter; }
    set { c_Caracter = value; }
}

public string C_ObsAc
{
    get { return c_ObsAc; }
    set { c_ObsAc = value; }
}

public void SetAct(string codAct, string designacao,
                  decimal preAct, decimal idaMin,
                  decimal idaMax, decimal numFun,
                  string tipo, DateTime datIni,
                  DateTime datFim, string horIni,
                  string horFim, string caracter,
                  string obs)
{
    C_codigo = codAct;
    C_DesignacaoAct = designacao;
    C_PrecoAct = preAct;
    C_IdadeMinima = idaMin;
    C_IdadeMaxima = idaMax;
    C_NFunNec = numFun;
}
```

```

        C_Tipo = tipo;
        C_DataInicio = datIni;
        C_DataFim = datFim;
        C_HoraInicio = horIni;
        C_HoraFim = horFim;
        C_Caracter = caracter;
        C_ObsAc = obs;
    }

    public void SetAct(string[] dados)
    {
        for (int x = 0; x < dados.Length ; x++)
        {
            C_codigo = dados[0];
            C_DesignacaoAct = dados[1];
            C_PrecoAct = Decimal.Parse(dados[2]);
            C_IdadeMinima = Decimal.Parse(dados[3]);
            C_IdadeMaxima = Decimal.Parse(dados[4]);
            C_NFunNec = int.Parse( dados[5]);
            C_Tipo = dados[6];
            C_DataInicio = DateTime.Parse(dados[7]);
            C_DataFim = DateTime.Parse(dados[8]);
            C_HoraInicio = dados[9];
            C_HoraFim = dados[10];
            C_Caracter = dados[11];
            C_ObsAc = dados[12];
        }
    }
}

```

Aluno.cs

```

/*****
 * Module:  Aluno.cs
 * Author:  di_nuno
 * Purpose: Definition of the Class Aluno
 *****/

using System;

public class Aluno
{
    private string NAluno;
    private decimal AnoA;
    private string NomeA;
    private string ApelidoA;
    private string MoradaA;
    private string LocalidadeA;
    private string CodigoPostalA;
    private string NacionalidadeA;
    private string TelefoneA;
    private string Telemovel;
}

```



```
private string EncarregadoEdu;
private string DataNascAluno;
private string BiAluno;
private string BilocalEmissaoAl;
private string NaturalidadeA;
private string BiDataEmissaoAl;
private string NContribuinteAl;
private string Sexo;
private string ObsAL;
private string DescontoAL;

public string NAluno1
{
    get { return NAluno; }
    set { NAluno = value; }
}

public decimal AnoA1
{
    get { return AnoA; }
    set { AnoA = value; }
}

public string NomeA1
{
    get { return NomeA; }
    set { NomeA = value; }
}

public string ApelidoA1
{
    get { return ApelidoA; }
    set { ApelidoA = value; }
}

public string MoradaA1
{
    get { return MoradaA; }
    set { MoradaA = value; }
}

public string LocalidadeA1
{
    get { return LocalidadeA; }
    set { LocalidadeA = value; }
}

public stringCodigoPostalA1
{
    get { return CodigoPostalA; }
    set { CodigoPostalA = value; }
}

public string NacionalidadeA1
{
    get { return NacionalidadeA; }
    set { NacionalidadeA = value; }
```

```
}

public string NaturalidadeA1
{
    get { return NaturalidadeA; }
    set { NaturalidadeA = value; }
}

public string TelefoneA1
{
    get { return TelefoneA; }
    set { TelefoneA = value; }
}

public string Telemovel1
{
    get { return Telemovel; }
    set { Telemovel = value; }
}

public string EncarregadoEdu1
{
    get { return EncarregadoEdu; }
    set { EncarregadoEdu = value; }
}

public string DataNascAluno1
{
    get { return DataNascAluno; }
    set { DataNascAluno = value; }
}

public string BiAluno1
{
    get { return BiAluno; }
    set { BiAluno = value; }
}

public string BilocalEmissaoA11
{
    get { return BilocalEmissaoA1; }
    set { BilocalEmissaoA1 = value; }
}

public string BiDataEmissaoA11
{
    get { return BiDataEmissaoA1; }
    set { BiDataEmissaoA1 = value; }
}

public string NContribuinteA11
{
    get { return NContribuinteA1; }
    set { NContribuinteA1 = value; }
}

public string Sexo1
```

```

{
    get { return Sexo; }
    set { Sexo = value; }
}

public string ObsAL1
{
    get { return ObsAL; }
    set { ObsAL = value; }
}

public string DescontoAL1
{
    get { return DescontoAL; }
    set { DescontoAL = value; }
}

public void SetAlu(string[] dados)
{
    for (int x = 0; x < dados.Length; x++)
    {
        NAluno1 = dados[0];
        AnoA1 = decimal.Parse(dados[1]);
        NomeA1 = dados[2];
        ApelidoA1 = dados[3];
        MoradaA1 = dados[4];
        LocalidadeA1 = dados[5];
       CodigoPostalA1 = dados[6];
        NacionalidadeA1 = dados[7];
        TelefoneA1 = dados[8];
        Telemovel1 = dados[9];
        EncarregadoEdu1 = dados[10];
        DataNascAluno1 = dados[11];
        BiAluno1 = dados[12];
        BilocalEmissaoA1 = dados[13];
        NacionalidadeA1 = dados[14];
        BiDataEmissaoA1 = dados[15];
        NContribuinteA1 = dados[16];
        Sexo1 = dados[17];
        ObsAL1 = dados[18];
        DescontoAL1 = dados[19];
    }
}

public void SetAlu(string nAluno, decimal anoA, string nomeA,
    string apelidoA, string moradaA, string localidadeA,
    string codPostalA, string nacionalidade, string telefoneA,
    string telemovelA, string edu, string dataNascA,
    string biA, string biLocEmiA, string naturalidadeA,
    string biDatEmiA, string contribuinte,
    string sexo, string obs, string descontoA)
{
    NAluno1 = nAluno;
    AnoA1 = anoA ;
    NomeA1 = nomeA ;

```

```

        ApelidoA1 = apelidoA ;
        MoradaA1 = moradaA ;
        LocalidadeA1 = localidadeA ;
        CodigoPostalA1 = codPostalA ;
        NacionalidadeA1 = nacionalidade ;
        TelefoneA1 = telefoneA ;
        Telemovel1 = telemovela ;
        EncarregadoEdu1 = edu ;
        DataNascAluno1 = dataNasca ;
        BiAluno1 = biA ;
        BilocalEmissaoA11 = biLocEmiA ;
        NaturalidadeA1 = naturalidadeA ;
        BiDataEmissaoA1 = biDatEmiA ;
        NContribuinteA11 = contribuinte ;
        Sexo1 = sexo ;
        ObsA11 = obs;
        DescontoA11 = descontoA ;

    }

```

```

//public Parente[] ALUDependePAR;
//public Matricula[] MatrFazAluno;
//public CCaluno[] ALUDetemCC;
//public FichaClinica[] ALUNPertenceFC;
//public Factura[] Alufac;
//public Recibo[] Alurec;
//public Turma ALUNOEstaTUR;

}

```

CCaluno.cs

```

/*****
* Module:   CCaluno.cs
* Author:   di_nuno
* Purpose:  Definition of the Class CCaluno
*****/

```

using System;

```

public class CCaluno
{
    public decimal NDoc;
    public decimal TipoDoc;
    public DateTime DataIc;
    public string NomeDoc;
    public decimal EurDev;
    public decimal EurCre;

    public Factura[] CCPossuiFAC;
    public Recibo[] CCContidaR;
    public Aluno ALUDetemCC;
}

```

Ctrls.cs

```

using System;
using System.Collections.Generic;
using OPSQL;
using System.Data.SqlClient;
using System.Data;
using System.Windows.Forms;
using error;
using OpeControls;

namespace Infanto
{
    class CtrlS
    {
        private static OpeControl oC = new OpeControl();

        /// <summary>
        ///
        /// </summary>
        /// <param name="frm"></param>
        public static void FrmBGC(Form frm , int ed)
        {
            oC.OperacoesControls(frm, "visible", ed , "Button");
        }

        public static void FrmBS(Button btn, int vis, int ed)
        {
            oC.OpButton(btn , "visible" , vis);
            oC.OpButton(btn, "enable", ed);
        }

        /// <summary>
        ///
        /// </summary>
        /// <param name="frm"></param>
        public static void FrmCtrlSED(Form frm , int ed)
        {
            oC.OperacoesControls(frm, "enable", ed, "TextBox");
            oC.OperacoesControls(frm, "enable", ed, "MaskedTextBox");
            oC.OperacoesControls(frm, "enable", ed, "ComboBox");
            oC.OperacoesControls(frm, "enable", ed, "DateTimePicker");
            oC.OperacoesControls(frm, "enable", ed, "GroupBox");
        }

        public static void FrmCtrlTXT(Form frm, int ed)
        {
            oC.OperacoesControls(frm, "text", 1, "TextBox");
            oC.OperacoesControls(frm, "text", 1, "MaskedTextBox");
            oC.OperacoesControls(frm, "text", 1, "ComboBox");
            oC.OperacoesControls(frm, "text", 1, "DateTimePicker");
        }
    }
}

```

```

    }

    /// <summary>
    ///
    /// </summary>
    /// <param name="frm"></param>
    public static void FrmCtlse(Form frm)
    {
        oC.OperacoesControls(frm, "enable", 1, "TextBox");
        oC.OperacoesControls(frm, "visible", 1, "Button");
        oC.OperacoesControls(frm, "enable", 1, "RichTextBox");
        oC.OperacoesControls(frm, "enable", 0, "ToolStrip");

    }

    public static void Gb(GroupBox gb)
    {
        oC.OpGB(gb, "text", 1, "RichTextBox");
    }

    public static void FrmTabPag(TabPage tp, int ed)
    {
        oC.OpTabPag(tp, "enable", ed);
    }

    public static void FrmTabPagTXT(TabPage tp, string operacao, int ed)
    {
        oC.OpTabPag(tp, "text", ed, "TextBox");
        oC.OpTabPag(tp, "text", ed, "ComboBox");
        oC.OpTabPag(tp, "text", ed, "RichTextBox");
    }

}
}

```

Dtear.cs

```

using System;
using OPSQL;
using System.Data.SqlClient;
using System.Data;
using System.Windows.Forms;
using Insert;
using error;
using Select;
using Delete;
using Update;
using System.Collections.Generic;

namespace Infanto
{
    /// <summary>
    /// Summary description for OperacoesSQL.

```

```

/// </summary>
public class DTear
{
    Inserts Inserts = new Inserts() ;
    Selects Selects = new Selects() ;
    Deletes Deletes = new Deletes() ;
    Updates Updates = new Updates() ;

    //Actividade
    public static List<Actividade> LSActividade = new List<Actividade>(1000);

    //Aluno
    public static List<Aluno> LSAAluno = new List<Aluno>(1000);

    //Turma
    public static List<Turma> LSTurma = new List<Turma>(1000);

    //Ficha Clinica
    public static List<FichaClinica> LSFC = new List<FichaClinica>(1000);

    public static string operacao = "";

    public static DataSet DS = new DataSet();

    public static BindingSource bs = new BindingSource();

    public DTear()
    {
        //
        // TODO: Add constructor logic here
        //
    }

    public static SqlConnection SQL(string servidor, string db, string user,
        string password, bool integrada)
    {
        SQL SQL = new SQL();
        return SQL.Ligacao(servidor, db , user, password, integrada);
    }

    public string Insert(string[] parametros , string[] dados , string sp)
    {
        string resultado = "";

        try
        {
            resultado = Inserts.Insert( parametros , dados ,
frmLogin.Ligacao , sp );
            return resultado ;
        }
        catch (Exception err)
        {
            MessageBox.Show("Erro");
            Geral.erro.Log(err.ToString(), true);
            return resultado = "1" ;
        }
    }
}

```

```

        }

    }

    public string Insert(string[] dados, string sp)
    {

        string resultado = "";

        try
        {
            resultado = Inserts.Insert( dados, frmLogin.Ligacao, sp);
            return resultado;
        }
        catch (Exception err)
        {
            MessageBox.Show("Erro"+ err.ToString());
            Geral.erro.Log(err.ToString(), true);
            return resultado = "1";
        }
    }

    public DataTable Select( string dados , string parametros , string sp ,
string DTNome)
    {
        try
        {
            return Selects.Select( dados , parametros , frmLogin.Ligacao ,
sp , DTNome ) ;

        }
        catch ( Exception err)
        {
            MessageBox.Show( err.ToString() ) ;
        }
        return null;
    }

    public DataTable Select( string[] dados , string[] parametros , string sp ,
string DTNome)
    {
        try
        {
            return Selects.Select( dados , parametros , frmLogin.Ligacao ,
sp , DTNome ) ;

        }
        catch ( Exception err)
        {
            MessageBox.Show( err.ToString() ) ;
        }
        return null;
    }

```



```

    }

    public DataTable Select(string sp, string DTNome)
    {
        try
        {
            return Selects.Select(frmLogin.Ligacao, sp , DTNome);
        }
        catch (Exception err)
        {
            MessageBox.Show(err.ToString());
        }
        return null;
    }

    public DataTable Select(string dados, string parametros, string DTNome, bool
contido)
    {
        try
        {
            return Selects.Select(dados , parametros , frmLogin.Ligacao , DTNome ,
contido );
        }
        catch (Exception err)
        {
            MessageBox.Show(err.ToString());
        }
        return null;
    }

    //Apaga todos os dados da tabela temporária para importação das pack lists
    public string Delete(string nomeTabela)
    {
        try
        {
            return Deletes.Delete(nomeTabela, frmLogin.Ligacao);
        }
        catch (Exception err)
        {
            MessageBox.Show(err.ToString());
        }
        return null;
    }

    //Apaga dados escolhidos da tabela
    public string Delete(string dadoApagar, string tabela, string camposPK )
    {
        try
        {
            return Deletes.Delete(dadoApagar , tabela , camposPK ,
frmLogin.Ligacao);
        }
        catch (Exception err)
        {

```

```

        MessageBox.Show(err.ToString());
    }
    return null;
}

public string Update(string[] parametros, string[] dados, string sp)
{
    string resultado = "";

    try
    {
        resultado = Updates.Update(parametros, dados, frmLogin.Ligacao, sp);
        return resultado;
    }
    catch (Exception err)
    {
        MessageBox.Show("Erro");
        Geral.erro.Log(err.ToString(), true);
        return resultado = "1";
    }
}

//string colSel, string valWhere, string colWhere , string nomTab
//Retornar o ultimo identity
public string Select(string colSel, string valWhere, string colWhere, string
nomTab, string x)
{
    try
    {
        return Selects.SelectInc(colSel, valWhere , colWhere , nomTab ,
frmLogin.Ligacao, x);
    }
    catch (Exception err)
    {
        MessageBox.Show(err.ToString());
    }
    return null;
}
}
}

```

Factura.cs

```

/*****
* Module: Factura.cs
* Author: di_nuno
* Purpose: Definition of the Class Factura
*****/

```

```
using System;

public class Factura
{
    public decimal NFactura;
    public decimal FAno;
    public decimal Ftano;
    public DateTime DataFact;
    public decimal EurTotal;
    public decimal EurViva;
    public decimal TaxaIva;
    public decimal EurTotalBruto;
    public decimal DescontoFa;
    public string NomeAlunFa;
    public string ApelidoAlunoFA;
    public bool PagaFA;

    public LinhaFactura[] FACContemLF;
    public LinhaRecibo[] RECPagaFAC;
    public CCAaluno CCPossuiFAC;
    public Aluno ALUFAC;
}
```

FichaClinica.cs

```
/*
 * Module:  FichaClinica.cs
 * Author:  di_nuno
 * Purpose: Definition of the Class FichaClinica
 */
```

```
using System;

public class FichaClinica
{
    private decimal NFicha;
    private bool VaninasDia;
    private string Doencas1;
    private string Doencas2;
    private string ObsFC;

    public decimal NFicha1
    {
        get { return NFicha; }
        set { NFicha = value; }
    }

    public bool VaninasDial
    {
        get { return VaninasDia; }
        set { VaninasDia = value; }
    }

    public string Doencas11
```

```

    {
        get { return Doencas1; }
        set { Doencas1 = value; }
    }

    public string Doencas21
    {
        get { return Doencas2; }
        set { Doencas2 = value; }
    }

    public string ObsFC1
    {
        get { return ObsFC; }
        set { ObsFC = value; }
    }

    // public Aluno ALUNPertenceFC;
}

```

Funcionário.cs

```

/*****
 * Module:  Funcionario.cs
 * Author:  di_nuno
 * Purpose: Definition of the Class Funcionario
 *****/

using System;

public class Funcionario
{
    public decimal IdFuncionario;
    public string NomeFun;
    public string ApelidoFun;
    public DateTime DataNascimento;
    public string BiFun;
    public decimal ContribuinteF;
    public string MoradaFun;
    public decimal CodPosFun;
    public string Localidadefun;
    public string BiEmissaoFu;
    public string NBeneficiarioF;
    public string EstadoCivilFun;
    public string SexoF;
    public string HabilitacoesF;
    public string ProfissaoF;
    public string TelemovelF;
    public string TelemovelFU;
    public string ObsF;

    public Turma[] TurmaTemFunc;
    public Profissao PROFTemFUN;
}

```

Inscricao.cs

```

/*****
 * Module:   Inscricao.cs
 * Author:   di_nuno
 * Purpose:  Definition of the Class Inscricao
 *****/

using System;

public class Inscricao
{
    public decimal Numero;
    public string NomeAluno;
    public string ApelidoAluno;
    public DateTime DataNascIns;
    public string NomePai;
    public string ApelidoPai;
    public DateTime DataNascPai;
    public string NomeMae;
    public string ApelidoMae;
    public DateTime DataNascMae;
    public bool PagouInscricao;
    public string InscricaoAno;
    public bool JaEstaMatr;
    public string Obs;
    public string Ano;

    public Insfezmatri Insfezmatri;
}

```

Insfezmatri.cs

```

/*****
 * Module:   Insfezmatri.cs
 * Author:   di_nuno
 * Purpose:  Definition of the Class Insfezmatri
 *****/

using System;

public class Insfezmatri
{
    public DateTime Data;

    public Inscricao[] INSFEZMATRI;
    public Matricula[] INSFEZMATRI;
}

```

LinhaFactura.cs

```

/*****
 * Module:   LinhaFactura.cs
 * Author:   di_nuno

```

```
* Purpose: Definition of the Class LinhaFactura
*****/
```

```
using System;
```

```
public class LinhaFactura
{
    public decimal IdLinha;
    public decimal LfFactura;
    public string Refer;
    public string DesignacaoLf;
    public decimal Qtt;
    public decimal EurPreco;
    public decimal EurPrecoXQtt;
    public decimal EurIva;
    public bool IvaInc;
    public decimal EurTotalLFact;
    public decimal DesPer;
    public decimal DesEurVal;
    public decimal TxIvaLF;

    public Stockserv[] SStemLF;
    public Factura FACContemLF;
}
```

LinhaRecibo.cs

```
/*
* Module: LinhaRecibo.cs
* Author: di_nuno
* Purpose: Definition of the Class LinhaRecibo
*/
```

```
using System;
```

```
public class LinhaRecibo
{
    public decimal NLinhaR;
    public decimal LnRecibo;
    public string Designacao;
    public decimal EurTotalRec;

    public Factura[] RECPagaFAC;
    public Recibo ContemR;
}
```

Matricula.cs

```
/*
* Module: Matricula.cs
* Author: di_nuno
* Purpose: Definition of the Class Matricula
*/
```

```
using System;
```

```
public class Matricula
{
    public decimal IdMatricula;
    public decimal NInscricao;
    public bool PagouMatricula;
    public string Ano;
    public DateTime Data;

    public Insfezmatri Insfezmatri;
    public Aluno MATR_Faz_ALUNO;
}
```

Parente.cs

```

/*****
 * Module:  Parente.cs
 * Author:  di_nuno
 * Purpose: Definition of the Class Parente
 *****/

using System;

public class Parente
{
    public decimal IdParente;
    public string NomePar;
    public string ApelidoPar;
    public string MoradaPar;
    public string LocalidadePar;
    public string CodPosPar;
    public string NacionalidadePar;
    public string NaturalidadePar;
    public string BiPa;
    public DateTime BiEmissaoPar;
    public string NContribuintePar;
    public string NBeneficiarioPar;
    public string PassaportPar;
    public string SexoPa;
    public string HabilitacoesPar;
    public string ProfissaoPar;
    public string TelEmpregoP;
    public string TelemovelPar;
    public string ObsPa;
    public DateTime DataNascPar;
    public string EstadoCivilPar;
    public string Parentesco;
    public bool AutLevAlu;

    public Aluno[] ALUDependePAR;
    public Profissao PARTemPRO;
}
```

Procuras.cs

```

using System;
using OPSQL;
using System.Data.SqlClient;
using System.Data;
using System.Windows.Forms;
using Insert;
using error;
using Select;
using Delete;
using Update;

namespace Infanto
{
    /// <summary>
    /// Summary description for Procuras.
    /// </summary>
    public class Procuras
    {
        public static DataSet DS = new DataSet();

        public static string proPar = null;
        public static string valPro = null;
        public static string spPro = null;
        public static string tabela = null;
        public static string proTxt = null;
        public static string entidade = null;

        public Procuras()
        {
            //
            // TODO: Add constructor logic here
            //
        }
    }
}

```

Profissao.cs

```

/*****
 * Module:  Profissao.cs
 * Author:  di_nuno
 * Purpose: Definition of the Class Profissao
 *****/

using System;

public class Profissao
{
    public string IdProfissao;
    public string DewscricaoProf;
    public string ObsPr;
}

```



```
public Parente[] PARTemPRO;  
public Funcionario[] PROFTemFUN;  
  
}
```

Program.cs

```
using System;  
using System.Collections.Generic;  
using System.Windows.Forms;  
  
namespace Infanto  
{  
    static class Program  
    {  
        /// <summary>  
        /// The main entry point for the application.  
        /// </summary>  
        ///  
        [STAThread]  
        static void Main()  
        {  
            Application.EnableVisualStyles();  
            Application.SetCompatibleTextRenderingDefault(false);  
            Application.Run(new frmSplash());  
        }  
    }  
}
```

Recibo.cs

```
/*  
*****  
* Module: Recibo.cs  
* Author: di_nuno  
* Purpose: Definition of the Class Recibo  
*****  
*/  
  
using System;  
  
public class Recibo  
{  
    public decimal NRecibo;  
    public decimal Rano;  
    public decimal EurTotalCRec;  
    public string TipoPag;  
    public string NCheque;  
    public DateTime DataCheque;  
    public string BancoCheque;  
    public string NomeAlunoRE;  
    public string ApelidoAL;  
  
    public LinhaRecibo[] ContemR;  
    public CCaluno CCContidaR;  
    public Aluno ALUREC;
```

```
}
```

StocServ.cs

```
/* *****  
 * Module:  Stockserv.cs  
 * Author:  di_nuno  
 * Purpose: Definition of the Class Stockserv  
 * ***** */  
  
using System;  
  
public class Stockserv  
{  
    public string Ref;  
    public string Descricao;  
    public decimal Preco;  
    public decimal TxIva;  
    public string Observacao;  
  
    public LinhaFactura[] SStemLF;  
  
}
```

Turma.cs

```
/* *****  
 * Module:  Turma.cs  
 * Author:  di_nuno  
 * Purpose: Definition of the Class Turma  
 * ***** */  
  
using System;  
  
public class Turma  
{  
    private int NTurma;  
    private string AnoTurma;  
    private string NomeTurma;  
    private string ObsTU;  
  
    public int NTurma1  
    {  
        get { return NTurma; }  
        set { NTurma = value; }  
    }  
  
    public string AnoTurma1  
    {  
        get { return AnoTurma; }  
        set { AnoTurma = value; }  
    }  
  
    public string NomeTurma1  
    {  
        get { return NomeTurma; }  
        set { NomeTurma = value; }  
    }  
}
```

```

    }

    public string ObsTU1
    {
        get { return ObsTU; }
        set { ObsTU = value; }
    }

    public void SetTur(int numTur, string anoTur,
                      string nomTur, string obsTur)
    {
        NTurma1 = numTur ;
        AnoTurma1 = anoTur;
        NomeTurma1 = nomTur;
        ObsTU1 = obsTur;
    }

    public void SetTur(string[] dados)
    {
        for (int x = 0; x < dados.Length; x++)
        {
            NTurma1 = int.Parse(dados[0]);
            AnoTurma1 = dados[1];
            NomeTurma1 = dados[2];
            ObsTU1 = dados[3];
        }
    }

    //public Aluno[] ALUNOEstaTUR;
    //public TurmaContemActi TurmaContemActi;
    //public Funcionario[] TurmaTemFunc;
}

```

TurmaContemActi.cs

```

/*****
* Module: TurmaContemActi.cs
* Author: di_nuno
* Purpose: Definition of the Class TurmaContemActi
*****/

using System;

public class TurmaContemActi
{
    public DateTime Data;

    public Actividade[] TurmaContemActi;
    public Turma[] TurmaContemActi;
}

```

FORMS

frmActividade.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

namespace Infanto
{
    public partial class frmActividade : Form
    {
        //OpeControl oC = new OpeControl();
        private Actividade ac = new Actividade();

        private int actPreFor = 0;
        private int curData = -1;

        public static string codigo = "";

        string operacao = null;

        public frmActividade()
        {
            InitializeComponent();
        }

        private void tmrActividade_Tick(object sender, EventArgs e)
        {
            DateTime hora = DateTime.Now ;
            tsslTimer.Text = hora.TimeOfDay.ToString();
        }

        //Carrega o form actividade e estabelece o binding
        private void frmActividade_Load(object sender, EventArgs e)
        {
            Ctrls.FrmCtrlsED(this, 0);
            Ctrls.FrmBGC(this, 0);
            Ctrls.FrmBS(btnProCod, 1, 1);
            Ctrls.FrmBS(btnProDes, 1, 1);

            //Valores por defeito
            CVDefeito();

            //txtCodAct.DataBindings.Add(new Binding("Text", DTear.DS,
            "ACTIVIDADE.codigo"));
            DTear.bs.DataSource = DTear.LSActividade;

        }

        private void dateTimePicker1_ValueChanged(object sender, EventArgs e)
        {

```

```

        DateTime dt = new DateTime();

    }

    private void mtbIdaMin_MaskInputRejected(object sender,
MaskInputRejectedEventArgs e)
    {

    }

    //Prepara o form para um novo registo
    private void tsbNovo_Click(object sender, EventArgs e)
    {
        operacao = "novo";
        Ctrls.FrmBGC(this, 1);
        Ctrls.FrmBS( btnProCod, 1, 0);
        Ctrls.FrmBS( btnProDes, 1, 0);
        Ctrls.FrmCtrlsED(this, 1);
        Ctrls.FrmCtrlTXT(this, 1);
        Ctrls.Gb(gbObs );
        //txtCodAct.BindingContext.Contains(ac.C_codigo);

    }

    //Chama a função de procura
    private void btnProcura_Click(object sender, EventArgs e)
    {

        frmProcura frmPro = new frmProcura();
        Procuras.proTxt = "Procura por código de actividade";
        Procuras.tabela = "ACTIVIDADE";
        Procuras.proPar = "codigo";
        Procuras.entidade = "frmActividade";
        frmPro.ShowDialog();
        if (codigo != "")
        {
            RetAct(codigo);
        }

    }

    private void todosToolStripMenuItem_Click(object sender, EventArgs e)
    {

    }

    //Verifica se houve erro na introdução de dados
    //Caso não tenha havido grva o registo
    private void btnGravar_Click(object sender, EventArgs e)
    {

        if (ValidaGravar() == 1)
        {
            MBVDados("Erro na introdução dos dados!");
            return;
        }

        if (operacao == "novo")

```

```

        {
            GravaActividade(CriaActividadeDF());
        }
        if (operacao == "actualizar")
        {
            ActualizarActividade();
        }
    }

    //Cancela a introdução de dados
    private void btnCancelar_Click(object sender, EventArgs e)
    {
        //BindingCampos();
        if (operacao == "novo" | operacao == "actualizar")
        {
            //Ctrls.FrmBS(btnProDes, 1, 1);
            //Ctrls.FrmBS(btnProCod, 1, 1);
            Ctrls.FrmBGC(this, 0);
            Ctrls.FrmCtrlsED(this, 0);
            Ctrls.FrmCtrlTXT(this, 1);
            //Ctrls.Gb(gbObs);
            Ctrls.FrmBS(btnProDes, 1, 1);
            Ctrls.FrmBS(btnProCod, 1, 1);
        }

        if (curData != -1)
        {
            BindingCampos(curData);
        }
    }

    //Valida os dados para gravação
    private int ValidaGravar()
    {
        try
        {
            if (txtCodAct.Text.Length < 2)
            {
                MBVDados("O código de actividade tem de ter pelo menos 2
caracteres");
                return 1;
            }
            if (txtDesignacao.Text.Length < 4)
            {
                MBVDados("Tem de preencher a descrição da actividade com pelo menos
4 caracteres");
                return 1;
            }

            if (decimal.Parse(mtbPreco.Text) < 0.01M | mtbPreco.Text.Length == 0)
            {
                MBVDados("O preço da actividade tem de ser maior que 0");
            }
        }
    }

```

```

        return 1;
    }

    if (decimal.Parse(mtbIdaMin.Text) < 0.1M | mtbIdaMin.Text.Length == 0)
    {
        MBVDados("A idade da criança tem de ser maior que zero!");
        return 1;
    }

    if (decimal.Parse(mtbIdaMax.Text) > 15.0M | mtbIdaMax.Text.Length == 0)
    {
        MBVDados("A idade da criança tem de ser até 15 anos");
        return 1;
    }

    if (int.Parse(mtbNFunNec.Text) < 1 | mtbNFunNec.Text.Length == 0 )
    {
        MBVDados("O número de funcionários atribuídos tem de ser maior que
zero");
        return 1;
    }
}

catch (Exception erro) {
    MBVDados("ERRO:" + erro.ToString());
    return 1;
}

return 0;
}

//Mensagem de erro na introdução dos dados
private void MBVDados(string mensagem)
{
    MessageBox.Show(mensagem, "Erro na introdução dos dados",
        MessageBoxButtons.OK, MessageBoxIcon.Error);
}

//Estabelece os dados por defeito
private void CVDefeito()
{
    mtbPreco.ValidatingType = typeof(System.Decimal);
    mtbPreco.TypeValidationCompleted += new
TypeValidationEventHandler(mtbPreco_TypeValidationCompleted);
    mtbPreco.KeyDown += new KeyEventHandler(mtbPreco_KeyDown);
    tpActividade.IsBalloon = true;

    mtbIdaMax.ValidatingType = typeof(System.Decimal);
    mtbIdaMin.ValidatingType = typeof(System.Decimal);
    mtbNFunNec.ValidatingType = typeof(System.Int16 );
}

void mtbPreco_TypeValidationCompleted(object sender, TypeValidationEventArgs e)
{
    //if (!e.IsValidInput)
    //{
    //    tpActividade.UseAnimation = true;
    //}
}

```

```

        //      tpActividade.ToolTipTitle = "Valor inválido";
        //      tpActividade.Show("Os dados do preço estão errados, introduza no
formato nnnn,nn", mtbPreco);

        //}
        //else
        //{
        //      decimal userPreco = (Decimal)e.ReturnValue;

        //}

    }

    void mtbPreco_KeyDown(object sender, KeyEventArgs e)
    {
        tpActividade.Hide(mtbPreco);
    }

    private void mtbPreco_MaskInputRejected(object sender,
MaskInputRejectedEventArgs e)
    {
    }

    //Cria o objecto actividade
    private Actividade CriaActividadeDF()
    {
        ac.SetAct(
            txtCodAct.Text, txtDesignacao.Text,
            Convert.ToDecimal(mtbPreco.Text),
            Convert.ToDecimal(mtbIdaMin.Text),
            Convert.ToDecimal(mtbIdaMax.Text),
            Convert.ToDecimal(mtbNFunNec.Text),
            cbbTipo.Text, dtpDatIni.Value,
            dtpDatFim.Value, mtbHorIni.ToString(),
            mtbHorFim.ToString(), cbbCaracter.Text,
            rtbObs.Text);

        return ac;
    }

    //Faz a correspondencia dos dados nos controls com a actividade
    //e manda gravar se não houver erros
    private void GravaActividade(Actividade ac)
    {
        string[] dados = new string[13];
        string[] parametros = new string[13];

        string mesIni = ac.C_DataInicio.Month.ToString();
        string diaIni = ac.C_DataInicio.Day.ToString();
        string mesFim = ac.C_DataFim.Month.ToString();
        string diaFim = ac.C_DataFim.Day.ToString();

        string horaIni = ac.C_HoraInicio.ToString();
        string minIni = ac.C_HoraInicio.ToString();
    }

```



```
string horaFim = ac.C_HoraFim.ToString();
string minFim = ac.C_HoraFim.ToString();

//meses
if (mesIni.Length < 2)
{
    mesIni = "0" + mesIni;
}

if (mesFim.Length < 2)
{
    mesFim = "0" + mesFim;
}

if (diaFim.Length < 2)
{
    diaFim = "0" + diaFim;
}

if (diaIni.Length < 2)
{
    diaIni = "0" + diaFim;
}

//horas
if (horaIni.Length < 2)
{
    horaIni = "0" + horaIni;
}

if (horaFim.Length < 2)
{
    horaFim = "0" + horaFim;
}

if (minFim.Length < 2)
{
    minFim = "0" + minFim;
}

if (minIni.Length < 2)
{
    minIni = "0" + minFim;
}

dados[0] = ac.C_codigo;
dados[1] = ac.C_DesignacaoAct;
dados[2] = ac.C_PrecoAct.ToString() ;
dados[3] = ac.C_IdadeMinima.ToString();
dados[4] = ac.C_IdadeMaxima.ToString() ;
dados[5] = ac.C_NFunNec.ToString() ;
dados[6] = ac.C_Tipo ;

dados[7] = ac.C_DataInicio.Year.ToString() +
           mesIni + diaIni;
```

```

        dados[8] = ac.C_DataFim.Year.ToString() +
                    mesFim + diaFim;

        dados[9] = horaIni + minIni;
        dados[10] = horaFim + minFim;

        dados[11] = ac.C_Caracter;
        dados[12] = ac.C_ObsAc;

        parametros[0] = "codigo";
        parametros[1] = "designacaoAct";
        parametros[2] = "precoAct";
        parametros[3] = "idadeMinima";
        parametros[4] = "idadeMaxima";
        parametros[5] = "nFunNec";
        parametros[6] = "tipo";
        parametros[7] = "dataInicio";
        parametros[8] = "dataFim";
        parametros[9] = "horaInicio";
        parametros[10] = "horaFim";
        parametros[11] = "caracter";
        parametros[12] = "obsAc";

        string gravar = null;

        DTear dt = new DTear();

        gravar = dt.Insert(parametros , dados , "insActividade");

        if (gravar != "")
        {
            MessageBox.Show(gravar);
        }
        else
        {
            MessageBox.Show("Actividade : " + dados[0] + " gravada",
                            "REGISTO GRAVADO" , MessageBoxButtons.OK ,
            MessageBoxIcon.Information );
            operacao = "gravado";
            AdiActi(ac);
        }
        dados = null;

        Ctrls.FrmBGC(this, 0);
        Ctrls.FrmBS(btnProCod, 1, 1);
        Ctrls.FrmBS(btnProDes, 1, 1);

    }

    //Evento para apagar actividades (sim/não)
    private void tsbApagar_Click(object sender, EventArgs e)
    {
        string resultado = null;
        if ( operacao != "gravado" & curData == -1 )
        {

```

```

        MessageBox.Show("Não Existe nada para apagar", "APAGAR REGISTO",
            MessageBoxButtons.OK , MessageBoxIcon.Exclamation);
    }
    else
    {
        resultado = MessageBox.Show("Tem a certeza que quer apagar o registo",
            "Apagar Registo",
                MessageBoxButtons.YesNo, MessageBoxIcon.Warning).ToString();
        if (resultado == "Yes")
        {
            ApagaActividade();
        }
        else { MessageBox.Show("Registo não apagado"); }
    }
}

//Apaga um objecto actividade da lista e da base de dados
private void ApagaActividade()
{
    string apagar = null;

    DTear dt = new DTear();

    apagar = dt.Delete(DTear.LSActividade[curData].C_codigo.ToString() ,
        "actividade", "codigo");

    if (apagar != "")
    {
        MessageBox.Show(apagar);
    }
    else
    {
        MessageBox.Show(DTear.LSActividade.Count.ToString());
        MessageBox.Show("Actividade : " +
            DTear.LSActividade[curData].C_codigo.ToString() + " apagada",
            "REGISTO APAGADO", MessageBoxButtons.OK,
            MessageBoxIcon.Information);
        operacao = "apagado";

        DTear.LSActividade.RemoveAt(curData);

        if (DTear.LSActividade.Count > -1)
        {
            curData = DTear.LSActividade.Count - 1;

            BindingCampos(curData);
        }
        else
        {
            //MessageBox.Show(DTear.LSActividade.Count.ToString());

            Ctrls.FrmBGC(this, 0);
            Ctrls.FrmBS(btnProCod, 1, 1);
            Ctrls.FrmBS(btnProDes, 1, 1);
            Ctrls.FrmCtrlsED(this, 0);
            Ctrls.FrmCtrlTXT(this, 1);
            Ctrls.Gb(gbObs);
        }
    }
}

```

```

        }
        ac = null;
    }

}

//Adiciona um objecto actividade á lista de actividades
private void AdiActi(Actividade ac)
{
    DTear.LSActividade.Add(ac);

    //foreach (object ac1 in DTear.LSActividade)
    //{
    //    //MessageBox.Show(DTear.LSActividade[0].ToString());
    //    //Actividade activ = (Actividade)DTear.LSActividade[0];
    //    //MessageBox.Show(activ.C_codigo.ToString()) ;
    //    int curData = DTear.LSActividade.FindIndex(delegate(Actividade a)
    //    {
    //        return a.C_codigo == "55";
    //    });
    //    MessageBox.Show(curData.ToString());

    //}
    curData = DTear.LSActividade.FindIndex(delegate(Actividade a)
    {
        return a.C_codigo == ac.C_codigo ;
    });
}

//Binding do objecto actividade ao controls do form
private void BindingCampos(int regAct)
{
    txtCodAct.DataBindings.Clear();
    txtDesignacao.DataBindings.Clear();
    mtbPreco.DataBindings.Clear();
    mtbIdaMin.DataBindings.Clear();
    mtbIdaMax.DataBindings.Clear();
    cbbTipo.DataBindings.Clear();
    dtpDatIni.DataBindings.Clear();
    dtpDatFim.DataBindings.Clear();
    mtbHorIni.DataBindings.Clear();
    mtbHorFim.DataBindings.Clear();
    mtbNFunNec.DataBindings.Clear();
    cbbCaracter.DataBindings.Clear();
    rtbObs.DataBindings.Clear();

    txtCodAct.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_codigo"));
    txtDesignacao.DataBindings.Add(new Binding("Text",
DTear.LSActividade[regAct], "C_DesignacaoAct"));
    mtbPreco.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_PrecoAct"));
}

```

```

        mtbIdaMin.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_IdadeMinima"));
        mtbIdaMax.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_IdadeMaxima"));
        cbbTipo.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_Tipo"));
        dtpDatIni.DataBindings.Add(new Binding("Value", DTear.LSActividade[regAct],
"C_DataInicio"));
        dtpDatFim.DataBindings.Add(new Binding("Value", DTear.LSActividade[regAct],
"C_DataFim"));
        mtbHorIni.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_HoraInicio"));
        mtbHorFim.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_HoraFim"));
        mtbNFunNec.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_NFunNec"));
        cbbCaracter.DataBindings.Add(new Binding("Text",
DTear.LSActividade[regAct], "C_Caracter"));
        rtbObs.DataBindings.Add(new Binding("Text", DTear.LSActividade[regAct],
"C_ObsAc"));
    }

    //Retorna o onjecto actividade pedido
    private void RetAct(string cod)
    {
        curData = DTear.LSActividade.FindIndex(delegate(Actividade a)
        {
            return a.C_codigo == cod;
        });

        BindingCampos(curData);
    }

    private void txtCodAct_TextChanged(object sender, EventArgs e)
    {
    }

    //Move um registo para baixo
    private void tsbUmBaixo_Click(object sender, EventArgs e)
    {
        if (DTear.LSActividade.Count > 1 & curData > -1 & curData <
DTear.LSActividade.Count-1)
        {
            curData = curData + 1;
            BindingCampos(curData);
        }
    }

    //Move para o ultimo registo
    private void tsbUltimo_Click(object sender, EventArgs e)
    {
        if (DTear.LSActividade.Count > 1 & curData > -1 & curData <
DTear.LSActividade.Count - 1)
        {

```

```

        curData = DTear.LSActividade.Count - 1;
        BindingCampos(curData);
    }
}

//Move um registo para cima
private void tsbUmCima_Click(object sender, EventArgs e)
{
    if (DTear.LSActividade.Count > 1 & curData > -1 & curData > 0 )
    {
        curData = curData - 1;
        BindingCampos(curData);
    }
}

//Move para o primeiro registo
private void tsbPrimeiro_Click(object sender, EventArgs e)
{
    if (DTear.LSActividade.Count > 1 & curData > -1 & curData > 0)
    {
        curData = 0;
        BindingCampos(curData);
    }
}

private void tsbActualizar_Click(object sender, EventArgs e)
{
    if (curData != -1)
    {
        operacao = "actualizar";
        Ctrls.FrmBGC(this, 1);
        Ctrls.FrmBS(btnProCod, 1, 0);
        Ctrls.FrmBS(btnProDes, 1, 0);
        Ctrls.FrmCtrlsED(this, 1);
        //Ctrls.FrmCtrlTXT(this, 1);
        //Ctrls.Gb(gbObs);
    }
    else
    {
        MessageBox.Show("Não Existe nada para actualizar", "ACTUALIZAR
REGISTO",
        MessageBoxButtons.OK , MessageBoxIcon.Exclamation );
    }
}

private void ActualizarActividade()
{
    string[] parametros = new string[13];
    string[] dados = new string[13];
    string sp = "actActividade";

    string mesIni = DTear.LSActividade[curData].C_DataInicio.Month.ToString();
    string diaIni = DTear.LSActividade[curData].C_DataInicio.Day.ToString();
    string mesFim = DTear.LSActividade[curData].C_DataFim.Month.ToString();
    string diaFim = DTear.LSActividade[curData].C_DataFim.Day.ToString();

    //meses

```

```

    if (mesIni.Length < 2)
    {
        mesIni = "0" + mesIni;
    }

    if (mesFim.Length < 2)
    {
        mesFim = "0" + mesFim;
    }

    if (diaFim.Length < 2)
    {
        diaFim = "0" + diaFim;
    }

    if (diaIni.Length < 2)
    {
        diaIni = "0" + diaFim;
    }

    dados[0] = DTear.LSActividade[curData].C_codigo;
    dados[1] = DTear.LSActividade[curData].C_DesignacaoAct;
    dados[2] = DTear.LSActividade[curData].C_PrecoAct.ToString();
    dados[3] = DTear.LSActividade[curData].C_IdadeMinima.ToString();
    dados[4] = DTear.LSActividade[curData].C_IdadeMaxima.ToString();
    dados[5] = DTear.LSActividade[curData].C_NFunNec.ToString();
    dados[6] = DTear.LSActividade[curData].C_Tipo;

    dados[7] = DTear.LSActividade[curData].C_DataInicio.Year.ToString() +
        mesIni + diaIni;

    dados[8] = DTear.LSActividade[curData].C_DataFim.Year.ToString() +
        mesFim + diaFim;

    dados[9] = DTear.LSActividade[curData].C_HoraInicio.ToString();
    dados[10] = DTear.LSActividade[curData].C_HoraFim.ToString();

    dados[11] = DTear.LSActividade[curData].C_Caracter;
    dados[12] = DTear.LSActividade[curData].C_ObsAc;

    parametros[0] = "codigo";
    parametros[1] = "designacaoAct";
    parametros[2] = "precoAct";
    parametros[3] = "idadeMinima";
    parametros[4] = "idadeMaxima";
    parametros[5] = "nFunNec";
    parametros[6] = "tipo";
    parametros[7] = "dataInicio";
    parametros[8] = "dataFim";
    parametros[9] = "horaInicio";
    parametros[10] = "horaFim";
    parametros[11] = "caracter";
    parametros[12] = "obsAc";

    DTear dt = new DTear();

```

```

        string gravar = null;

        gravar = dt.Update(parametros, dados, sp).ToString();

        if (gravar != "")
        {
            MessageBox.Show(gravar);
        }
        else
        {
            MessageBox.Show("Actividade :" + dados[0] + " actualizada",
                "REGISTO ACTUALIZADO", MessageBoxButtons.OK,
                MessageBoxIcon.Information);
            operacao = "actualizar";
        }

        dados = null;

        Ctrls.FrmBGC(this, 0);
        Ctrls.FrmBS(btnProCod, 1, 1);
        Ctrls.FrmBS(btnProDes, 1, 1);

    }

}

```

frmActividadeDesigner.cs

```

namespace Infanto
{
    partial class frmActividade
    {
        /// <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.components = new System.ComponentModel.Container();
    System.ComponentModel.ComponentResourceManager resources = new
System.ComponentModel.ComponentResourceManager(typeof(frmActividade));
    this.ssActividade = new System.Windows.Forms.StatusStrip();
    this.tsslGenStatus = new System.Windows.Forms.ToolStripStatusLabel();
    this.tsslTime = new System.Windows.Forms.ToolStripStatusLabel();
    this.tsslTimer = new System.Windows.Forms.ToolStripStatusLabel();
    this.toolStripStatusLabel1 = new
System.Windows.Forms.ToolStripStatusLabel();
    this.hpActividade = new System.Windows.Forms.HelpProvider();
    this.tpActividade = new System.Windows.Forms.ToolTip(this.components);
    this.tmrActividade = new System.Windows.Forms.Timer(this.components);
    this.btnCancel = new System.Windows.Forms.Button();
    this.btnGravar = new System.Windows.Forms.Button();
    this.tsProfissao = new System.Windows.Forms.ToolStrip();
    this.tsdbProcurar = new System.Windows.Forms.ToolStripDropDownButton();
    this.tsmiTodos = new System.Windows.Forms.ToolStripMenuItem();
    this.tsbNovo = new System.Windows.Forms.ToolStripButton();
    this.tsbApagar = new System.Windows.Forms.ToolStripButton();
    this.tsdbOpcDiv = new System.Windows.Forms.ToolStripDropDownButton();
    this.tsbMapas = new System.Windows.Forms.ToolStripButton();
    this.tsbAjuda = new System.Windows.Forms.ToolStripButton();
    this.label6 = new System.Windows.Forms.Label();
    this.txtCodAct = new System.Windows.Forms.TextBox();
    this.label3 = new System.Windows.Forms.Label();
    this.label34 = new System.Windows.Forms.Label();
    this.label37 = new System.Windows.Forms.Label();
    this.label27 = new System.Windows.Forms.Label();
    this.label26 = new System.Windows.Forms.Label();
    this.txtDesignacao = new System.Windows.Forms.TextBox();
    this.mtbPreco = new System.Windows.Forms.MaskedTextBox();
    this.mtbIdaMin = new System.Windows.Forms.MaskedTextBox();
    this.mtbIdaMax = new System.Windows.Forms.MaskedTextBox();
    this.cbbTipo = new System.Windows.Forms.ComboBox();
    this.dtpDatIni = new System.Windows.Forms.DateTimePicker();
    this.dtpDatFim = new System.Windows.Forms.DateTimePicker();
    this.label11 = new System.Windows.Forms.Label();
    this.label2 = new System.Windows.Forms.Label();
    this.gbObs = new System.Windows.Forms.GroupBox();
    this.rtbObs = new System.Windows.Forms.RichTextBox();
    this.btnProCod = new System.Windows.Forms.Button();
    this.btnProDes = new System.Windows.Forms.Button();
    this.mtbNFunNec = new System.Windows.Forms.MaskedTextBox();
    this.label4 = new System.Windows.Forms.Label();
    this.cbbCaracter = new System.Windows.Forms.ComboBox();
    this.label5 = new System.Windows.Forms.Label();
    this.mtbHorIni = new System.Windows.Forms.MaskedTextBox();
    this.mtbHorFim = new System.Windows.Forms.MaskedTextBox();
    this.toolStripSeparator1 = new System.Windows.Forms.ToolStripSeparator();
    this.toolStripSeparator2 = new System.Windows.Forms.ToolStripSeparator();
    this.toolStripSeparator3 = new System.Windows.Forms.ToolStripSeparator();

```

```

this.toolStripSeparator4 = new System.Windows.Forms.ToolStripSeparator();
this.tsbUmBaixo = new System.Windows.Forms.ToolStripButton();
this.tsbUltimo = new System.Windows.Forms.ToolStripButton();
this.tsbUmCima = new System.Windows.Forms.ToolStripButton();
this.tsbPrimeiro = new System.Windows.Forms.ToolStripButton();
this.toolStripSeparator5 = new System.Windows.Forms.ToolStripSeparator();
this.tsbAtualizar = new System.Windows.Forms.ToolStripButton();
this.ssActividade.SuspendLayout();
this.tsProfissao.SuspendLayout();
this.gbObs.SuspendLayout();
this.SuspendLayout();
//
// ssActividade
//
this.ssActividade.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {
this.tsslGenStatus,
this.tsslTime,
this.tsslTimer,
this.toolStripStatusLabel1});
this.ssActividade.Location = new System.Drawing.Point(0, 353);
this.ssActividade.Name = "ssActividade";
this.ssActividade.Size = new System.Drawing.Size(504, 22);
this.ssActividade.TabIndex = 0;
this.ssActividade.Text = "statusStrip1";
//
// tsslGenStatus
//
this.tsslGenStatus.Name = "tsslGenStatus";
this.tsslGenStatus.Size = new System.Drawing.Size(39, 17);
this.tsslGenStatus.Text = "Pronto";
//
// tsslTime
//
this.tsslTime.BorderStyle = System.Windows.Forms.Border3DStyle.RaisedOuter;
this.tsslTime.Name = "tsslTime";
this.tsslTime.Size = new System.Drawing.Size(0, 17);
//
// tsslTimer
//
this.tsslTimer.Name = "tsslTimer";
this.tsslTimer.Size = new System.Drawing.Size(0, 17);
//
// toolStripStatusLabel1
//
this.toolStripStatusLabel1.Name = "toolStripStatusLabel1";
this.toolStripStatusLabel1.Size = new System.Drawing.Size(109, 17);
this.toolStripStatusLabel1.Text = "toolStripStatusLabel1";
//
// tpActividade
//
this.tpActividade.ToolTipIcon = System.Windows.Forms.ToolTipIcon.Warning;
this.tpActividade.ToolTipTitle = "Atenção ao preço!";
//
// tmrActividade
//
this.tmrActividade.Interval = 1000;

```

```

        this.tmrActividade.Tick += new
System.EventHandler(this.tmrActividade_Tick);
//
// btnCancelar
//
this.btnCancelar.Location = new System.Drawing.Point(412, 321);
this.btnCancelar.Name = "btnCancelar";
this.btnCancelar.Size = new System.Drawing.Size(75, 23);
this.btnCancelar.TabIndex = 10;
this.btnCancelar.Text = "&Cancelar";
this.btnCancelar.UseVisualStyleBackColor = true;
this.btnCancelar.Click += new System.EventHandler(this.btnCancelar_Click);
//
// btnGravar
//
this.btnGravar.Location = new System.Drawing.Point(321, 321);
this.btnGravar.Name = "btnGravar";
this.btnGravar.Size = new System.Drawing.Size(75, 23);
this.btnGravar.TabIndex = 9;
this.btnGravar.Text = "&Gravar";
this.btnGravar.UseVisualStyleBackColor = true;
this.btnGravar.Click += new System.EventHandler(this.btnGravar_Click);
//
// tsProfissao
//
this.tsProfissao.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {
this.tsdbProcurar,
this.toolStripSeparator2,
this.tsbNovo,
this.tsbAtualizar,
this.tsbApagar,
this.toolStripSeparator3,
this.tsdbOpcDiv,
this.tsbMapas,
this.toolStripSeparator4,
this.tsbAjuda,
this.toolStripSeparator1,
this.tsbUmBaixo,
this.tsbUltimo,
this.tsbUmCima,
this.tsbPrimeiro,
this.toolStripSeparator5});
this.tsProfissao.Location = new System.Drawing.Point(0, 0);
this.tsProfissao.Name = "tsProfissao";
this.tsProfissao.Size = new System.Drawing.Size(504, 25);
this.tsProfissao.TabIndex = 11;
this.tsProfissao.Text = "toolStrip1";
//
// tsdbProcurar
//
this.tsdbProcurar.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
this.tsdbProcurar.DropDownItems.AddRange(new
System.Windows.Forms.ToolStripItem[] {
this.tsmiTodos});
this.tsdbProcurar.Image =
((System.Drawing.Image) (resources.GetObject("tsdbProcurar.Image")));

```

```

        this.tsdbProcurar.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsdbProcurar.Name = "tsdbProcurar";
        this.tsdbProcurar.Size = new System.Drawing.Size(29, 22);
        this.tsdbProcurar.Text = "toolStripDropDownButton1";
        //
        // tsmiTodos
        //
        this.tsmiTodos.Name = "tsmiTodos";
        this.tsmiTodos.Size = new System.Drawing.Size(114, 22);
        this.tsmiTodos.Text = "Todos";
        this.tsmiTodos.Click += new
System.EventHandler(this.todosToolStripMenuItem_Click);
        //
        // tsbNovo
        //
        this.tsbNovo.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbNovo.Image =
((System.Drawing.Image)(resources.GetObject("tsbNovo.Image")));
        this.tsbNovo.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbNovo.Name = "tsbNovo";
        this.tsbNovo.Size = new System.Drawing.Size(23, 22);
        this.tsbNovo.Text = "toolStripButton1";
        this.tsbNovo.Click += new System.EventHandler(this.tsbNovo_Click);
        //
        // tsbApagar
        //
        this.tsbApagar.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbApagar.Image =
((System.Drawing.Image)(resources.GetObject("tsbApagar.Image")));
        this.tsbApagar.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbApagar.Name = "tsbApagar";
        this.tsbApagar.Size = new System.Drawing.Size(23, 22);
        this.tsbApagar.Text = "toolStripButton1";
        this.tsbApagar.Click += new System.EventHandler(this.tsbApagar_Click);
        //
        // tsdbOpcDiv
        //
        this.tsdbOpcDiv.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsdbOpcDiv.Image =
((System.Drawing.Image)(resources.GetObject("tsdbOpcDiv.Image")));
        this.tsdbOpcDiv.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsdbOpcDiv.Name = "tsdbOpcDiv";
        this.tsdbOpcDiv.Size = new System.Drawing.Size(29, 22);
        this.tsdbOpcDiv.Text = "toolStripDropDownButton1";
        //
        // tsbMapas
        //
        this.tsbMapas.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbMapas.Image =
((System.Drawing.Image)(resources.GetObject("tsbMapas.Image")));
        this.tsbMapas.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbMapas.Name = "tsbMapas";
        this.tsbMapas.Size = new System.Drawing.Size(23, 22);

```

```

        this.tsbMapas.Text = "toolStripButton1";
        //
        // tsbAjuda
        //
        this.tsbAjuda.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbAjuda.Image =
((System.Drawing.Image)(resources.GetObject("tsbAjuda.Image")));
        this.tsbAjuda.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbAjuda.Name = "tsbAjuda";
        this.tsbAjuda.Size = new System.Drawing.Size(23, 22);
        this.tsbAjuda.Text = "toolStripButton1";
        //
        // label6
        //
        this.label6.AutoSize = true;
        this.label6.Location = new System.Drawing.Point(1, 40);
        this.label6.Name = "label6";
        this.label6.Size = new System.Drawing.Size(96, 13);
        this.label6.TabIndex = 224;
        this.label6.Text = "Código Actividade:";
        //
        // txtCodAct
        //
        this.txtCodAct.Location = new System.Drawing.Point(98, 37);
        this.txtCodAct.Name = "txtCodAct";
        this.txtCodAct.Size = new System.Drawing.Size(92, 20);
        this.txtCodAct.TabIndex = 223;
        this.txtCodAct.TextChanged += new
System.EventHandler(this.txtCodAct_TextChanged);
        //
        // label3
        //
        this.label3.AutoSize = true;
        this.label3.Location = new System.Drawing.Point(61, 116);
        this.label3.Name = "label3";
        this.label3.Size = new System.Drawing.Size(31, 13);
        this.label3.TabIndex = 222;
        this.label3.Text = "Tipo:";
        //
        // label34
        //
        this.label34.AutoSize = true;
        this.label34.Location = new System.Drawing.Point(274, 93);
        this.label34.Name = "label34";
        this.label34.Size = new System.Drawing.Size(76, 13);
        this.label34.TabIndex = 219;
        this.label34.Text = "Idade Máxima:";
        //
        // label37
        //
        this.label37.AutoSize = true;
        this.label37.Location = new System.Drawing.Point(171, 92);
        this.label37.Name = "label37";
        this.label37.Size = new System.Drawing.Size(75, 13);
        this.label37.TabIndex = 217;
        this.label37.Text = "Idade Mínima:";
    
```

```

//
// label27
//
this.label27.AutoSize = true;
this.label27.Location = new System.Drawing.Point(55, 89);
this.label27.Name = "label27";
this.label27.Size = new System.Drawing.Size(38, 13);
this.label27.TabIndex = 214;
this.label27.Text = "Preço:";
//
// label26
//
this.label26.AutoSize = true;
this.label26.Location = new System.Drawing.Point(28, 65);
this.label26.Name = "label26";
this.label26.Size = new System.Drawing.Size(67, 13);
this.label26.TabIndex = 213;
this.label26.Text = "Designação:";
//
// txtDesignacao
//
this.txtDesignacao.Location = new System.Drawing.Point(98, 62);
this.txtDesignacao.Name = "txtDesignacao";
this.txtDesignacao.Size = new System.Drawing.Size(377, 20);
this.txtDesignacao.TabIndex = 209;
//
// mtbPreco
//
this.mtbPreco.Location = new System.Drawing.Point(98, 89);
this.mtbPreco.Mask = "00000.00";
this.mtbPreco.Name = "mtbPreco";
this.mtbPreco.Size = new System.Drawing.Size(66, 20);
this.mtbPreco.TabIndex = 225;
this.mtbPreco.Text = "    000";
this.mtbPreco.TextAlign = System.Windows.Forms.HorizontalAlignment.Right;
this.mtbPreco.MaskInputRejected += new
System.Windows.Forms.MaskInputRejectedEventHandler(this.mtbPreco_MaskInputRejected);
//
// mtbIdaMin
//
this.mtbIdaMin.Location = new System.Drawing.Point(247, 89);
this.mtbIdaMin.Mask = "00.0";
this.mtbIdaMin.Name = "mtbIdaMin";
this.mtbIdaMin.Size = new System.Drawing.Size(28, 20);
this.mtbIdaMin.TabIndex = 226;
this.mtbIdaMin.Text = "000";
this.mtbIdaMin.TextAlign = System.Windows.Forms.HorizontalAlignment.Right;
this.mtbIdaMin.MaskInputRejected += new
System.Windows.Forms.MaskInputRejectedEventHandler(this.mtbIdaMin_MaskInputRejected);
//
// mtbIdaMax
//
this.mtbIdaMax.Location = new System.Drawing.Point(351, 90);
this.mtbIdaMax.Mask = "00.0";
this.mtbIdaMax.Name = "mtbIdaMax";
this.mtbIdaMax.Size = new System.Drawing.Size(28, 20);
this.mtbIdaMax.TabIndex = 227;

```

```

this.mtbIdaMax.Text = "000";
this.mtbIdaMax.TextAlign = System.Windows.Forms.HorizontalAlignment.Right;
//
// cbbTipo
//
this.cbbTipo.FormattingEnabled = true;
this.cbbTipo.Location = new System.Drawing.Point(98, 112);
this.cbbTipo.Name = "cbbTipo";
this.cbbTipo.Size = new System.Drawing.Size(170, 21);
this.cbbTipo.TabIndex = 228;
//
// dtpDatIni
//
this.dtpDatIni.Format = System.Windows.Forms.DateTimePickerFormat.Short;
this.dtpDatIni.Location = new System.Drawing.Point(98, 139);
this.dtpDatIni.Name = "dtpDatIni";
this.dtpDatIni.Size = new System.Drawing.Size(81, 20);
this.dtpDatIni.TabIndex = 229;
this.dtpDatIni.Value = new System.DateTime(2006, 1, 16, 19, 31, 0, 0);
this.dtpDatIni.ValueChanged += new
System.EventHandler(this.dateTimePicker1_ValueChanged);
//
// dtpDatFim
//
this.dtpDatFim.Format = System.Windows.Forms.DateTimePickerFormat.Short;
this.dtpDatFim.Location = new System.Drawing.Point(98, 165);
this.dtpDatFim.Name = "dtpDatFim";
this.dtpDatFim.Size = new System.Drawing.Size(81, 20);
this.dtpDatFim.TabIndex = 233;
this.dtpDatFim.Value = new System.DateTime(2006, 1, 16, 19, 31, 0, 0);
//
// label1
//
this.label1.AutoSize = true;
this.label1.Location = new System.Drawing.Point(2, 143);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(96, 13);
this.label1.TabIndex = 234;
this.label1.Text = "Data Inicio e Hora:";
//
// label2
//
this.label2.AutoSize = true;
this.label2.Location = new System.Drawing.Point(11, 169);
this.label2.Name = "label2";
this.label2.Size = new System.Drawing.Size(87, 13);
this.label2.TabIndex = 235;
this.label2.Text = "Data Fim e Hora:";
//
// gbObs
//
this.gbObs.Controls.Add(this.rtbObs);
this.gbObs.Location = new System.Drawing.Point(14, 191);
this.gbObs.Name = "gbObs";
this.gbObs.Size = new System.Drawing.Size(473, 112);
this.gbObs.TabIndex = 236;
this.gbObs.TabStop = false;

```



```

        this.gbObs.Text = "Observações";
        //
        // rtbObs
        //
        this.rtbObs.Location = new System.Drawing.Point(17, 19);
        this.rtbObs.Name = "rtbObs";
        this.rtbObs.Size = new System.Drawing.Size(426, 77);
        this.rtbObs.TabIndex = 0;
        this.rtbObs.Text = "";
        //
        // btnProCod
        //
        this.btnProCod.AutoSize = true;
        this.btnProCod.BackgroundImage =
        ((System.Drawing.Image)(resources.GetObject("btnProCod.BackgroundImage")));
        this.btnProCod.BackgroundImageLayout =
        System.Windows.Forms.ImageLayout.Stretch;
        this.btnProCod.Location = new System.Drawing.Point(191, 38);
        this.btnProCod.Name = "btnProCod";
        this.btnProCod.Size = new System.Drawing.Size(19, 19);
        this.btnProCod.TabIndex = 237;
        this.btnProCod.UseVisualStyleBackColor = true;
        this.btnProCod.Click += new System.EventHandler(this.btnProcura_Click);
        //
        // btnProDes
        //
        this.btnProDes.AutoSize = true;
        this.btnProDes.BackgroundImage =
        ((System.Drawing.Image)(resources.GetObject("btnProDes.BackgroundImage")));
        this.btnProDes.BackgroundImageLayout =
        System.Windows.Forms.ImageLayout.Stretch;
        this.btnProDes.Location = new System.Drawing.Point(476, 63);
        this.btnProDes.Name = "btnProDes";
        this.btnProDes.Size = new System.Drawing.Size(19, 19);
        this.btnProDes.TabIndex = 238;
        this.btnProDes.UseVisualStyleBackColor = true;
        //
        // mtbNFunNec
        //
        this.mtbNFunNec.Location = new System.Drawing.Point(411, 139);
        this.mtbNFunNec.Mask = "00";
        this.mtbNFunNec.Name = "mtbNFunNec";
        this.mtbNFunNec.Size = new System.Drawing.Size(22, 20);
        this.mtbNFunNec.TabIndex = 240;
        this.mtbNFunNec.Text = "00";
        this.mtbNFunNec.TextAlign = System.Windows.Forms.HorizontalAlignment.Right;
        //
        // label4
        //
        this.label4.AutoSize = true;
        this.label4.Location = new System.Drawing.Point(262, 142);
        this.label4.Name = "label4";
        this.label4.Size = new System.Drawing.Size(149, 13);
        this.label4.TabIndex = 239;
        this.label4.Text = "N.º Funcionários Necessários:";
        //
        // cbbCaracter

```



```
//
this.cbbCaracter.FormattingEnabled = true;
this.cbbCaracter.Location = new System.Drawing.Point(311, 166);
this.cbbCaracter.Name = "cbbCaracter";
this.cbbCaracter.Size = new System.Drawing.Size(170, 21);
this.cbbCaracter.TabIndex = 242;
//
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(262, 169);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(50, 13);
this.label5.TabIndex = 241;
this.label5.Text = "Caracter:";
//
// mtbHorIni
//
this.mtbHorIni.Location = new System.Drawing.Point(182, 140);
this.mtbHorIni.Mask = "90:00";
this.mtbHorIni.Name = "mtbHorIni";
this.mtbHorIni.Size = new System.Drawing.Size(35, 20);
this.mtbHorIni.TabIndex = 243;
this.mtbHorIni.Text = "000";
this.mtbHorIni.TextAlign = System.Windows.Forms.HorizontalAlignment.Right;
this.mtbHorIni.ValidatingType = typeof(System.DateTime);
//
// mtbHorFim
//
this.mtbHorFim.Location = new System.Drawing.Point(182, 165);
this.mtbHorFim.Mask = "00:00";
this.mtbHorFim.Name = "mtbHorFim";
this.mtbHorFim.Size = new System.Drawing.Size(35, 20);
this.mtbHorFim.TabIndex = 244;
this.mtbHorFim.Text = "000";
this.mtbHorFim.TextAlign = System.Windows.Forms.HorizontalAlignment.Right;
this.mtbHorFim.ValidatingType = typeof(System.DateTime);
//
// toolStripSeparator1
//
this.toolStripSeparator1.Name = "toolStripSeparator1";
this.toolStripSeparator1.Size = new System.Drawing.Size(6, 25);
//
// toolStripSeparator2
//
this.toolStripSeparator2.Name = "toolStripSeparator2";
this.toolStripSeparator2.Size = new System.Drawing.Size(6, 25);
//
// toolStripSeparator3
//
this.toolStripSeparator3.Name = "toolStripSeparator3";
this.toolStripSeparator3.Size = new System.Drawing.Size(6, 25);
//
// toolStripSeparator4
//
this.toolStripSeparator4.Name = "toolStripSeparator4";
this.toolStripSeparator4.Size = new System.Drawing.Size(6, 25);
```

```

//
// tsbUmBaixo
//
this.tsbUmBaixo.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
this.tsbUmBaixo.Image =
((System.Drawing.Image)(resources.GetObject("tsbUmBaixo.Image")));
this.tsbUmBaixo.ImageTransparentColor = System.Drawing.Color.Magenta;
this.tsbUmBaixo.Name = "tsbUmBaixo";
this.tsbUmBaixo.Size = new System.Drawing.Size(23, 22);
this.tsbUmBaixo.Text = "Mover Registo um para cima";
this.tsbUmBaixo.Click += new System.EventHandler(this.tsbUmBaixo_Click);
//
// tsbUltimo
//
this.tsbUltimo.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
this.tsbUltimo.Image =
((System.Drawing.Image)(resources.GetObject("tsbUltimo.Image")));
this.tsbUltimo.ImageTransparentColor = System.Drawing.Color.Magenta;
this.tsbUltimo.Name = "tsbUltimo";
this.tsbUltimo.Size = new System.Drawing.Size(23, 22);
this.tsbUltimo.Text = "Mover para o Ultimo registo";
this.tsbUltimo.Click += new System.EventHandler(this.tsbUltimo_Click);
//
// tsbUmCima
//
this.tsbUmCima.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
this.tsbUmCima.Image =
((System.Drawing.Image)(resources.GetObject("tsbUmCima.Image")));
this.tsbUmCima.ImageTransparentColor = System.Drawing.Color.Magenta;
this.tsbUmCima.Name = "tsbUmCima";
this.tsbUmCima.Size = new System.Drawing.Size(23, 22);
this.tsbUmCima.Text = "Mover um registo para cima";
this.tsbUmCima.Click += new System.EventHandler(this.tsbUmCima_Click);
//
// tsbPrimeiro
//
this.tsbPrimeiro.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
this.tsbPrimeiro.Image =
((System.Drawing.Image)(resources.GetObject("tsbPrimeiro.Image")));
this.tsbPrimeiro.ImageTransparentColor = System.Drawing.Color.Magenta;
this.tsbPrimeiro.Name = "tsbPrimeiro";
this.tsbPrimeiro.Size = new System.Drawing.Size(23, 22);
this.tsbPrimeiro.Text = "Mover todos os registos para cima";
this.tsbPrimeiro.Click += new System.EventHandler(this.tsbPrimeiro_Click);
//
// toolStripSeparator5
//
this.toolStripSeparator5.Name = "toolStripSeparator5";
this.toolStripSeparator5.Size = new System.Drawing.Size(6, 25);
//
// tsbAtualizar
//

```

```

        this.tsbAtualizar.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbAtualizar.Image =
((System.Drawing.Image)(resources.GetObject("tsbAtualizar.Image")));
        this.tsbAtualizar.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbAtualizar.Name = "tsbAtualizar";
        this.tsbAtualizar.Size = new System.Drawing.Size(23, 22);
        this.tsbAtualizar.Text = "Atualizar registo";
        this.tsbAtualizar.Click += new
System.EventHandler(this.tsbAtualizar_Click);
        //
        // frmActividade
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(504, 375);
        this.Controls.Add(this.mtbHorFim);
        this.Controls.Add(this.mtbHorIni);
        this.Controls.Add(this.cbbCaracter);
        this.Controls.Add(this.label5);
        this.Controls.Add(this.mtbNFunNec);
        this.Controls.Add(this.label4);
        this.Controls.Add(this.btnProDes);
        this.Controls.Add(this.btnProCod);
        this.Controls.Add(this.gbObs);
        this.Controls.Add(this.label2);
        this.Controls.Add(this.label1);
        this.Controls.Add(this.dtpDatFim);
        this.Controls.Add(this.dtpDatIni);
        this.Controls.Add(this.cbbTipo);
        this.Controls.Add(this.mtbIdaMax);
        this.Controls.Add(this.mtbIdaMin);
        this.Controls.Add(this.mtbPreco);
        this.Controls.Add(this.label6);
        this.Controls.Add(this.txtCodAct);
        this.Controls.Add(this.label3);
        this.Controls.Add(this.label34);
        this.Controls.Add(this.label37);
        this.Controls.Add(this.label27);
        this.Controls.Add(this.label26);
        this.Controls.Add(this.txtDesignacao);
        this.Controls.Add(this.tsProfissao);
        this.Controls.Add(this.btnCancelar);
        this.Controls.Add(this.btnGravar);
        this.Controls.Add(this.ssActividade);
        this.Name = "frmActividade";
        this.StartPosition = System.Windows.Forms.FormStartPosition.CenterParent;
        this.Text = "Actividade";
        this.Load += new System.EventHandler(this.frmActividade_Load);
        this.ssActividade.ResumeLayout(false);
        this.ssActividade.PerformLayout();
        this.tsProfissao.ResumeLayout(false);
        this.tsProfissao.PerformLayout();
        this.gbObs.ResumeLayout(false);
        this.ResumeLayout(false);
        this.PerformLayout();
    
```

```

    }

#endregion

private System.Windows.Forms.StatusStrip ssActividade;
private System.Windows.Forms.HelpProvider hpActividade;
private System.Windows.Forms.ToolTip tpActividade;
private System.Windows.Forms.ToolStripStatusLabel tsslGenStatus;
private System.Windows.Forms.ToolStripStatusLabel tsslTime;
private System.Windows.Forms.Timer tmrActividade;
private System.Windows.Forms.ToolStripStatusLabel tsslTimer;
private System.Windows.Forms.ToolStripStatusLabel toolStripStatusLabel1;
private System.Windows.Forms.Button btnCancel;
private System.Windows.Forms.Button btnGravar;
private System.Windows.Forms.ToolStrip tsProfissao;
private System.Windows.Forms.ToolStripDropDownButton tsdbProcurar;
private System.Windows.Forms.ToolStripButton tsbNovo;
private System.Windows.Forms.ToolStripButton tsbApagar;
private System.Windows.Forms.ToolStripDropDownButton tsdbOpcDiv;
private System.Windows.Forms.ToolStripButton tsbMapas;
private System.Windows.Forms.ToolStripButton tsbAjuda;
private System.Windows.Forms.Label label6;
private System.Windows.Forms.TextBox txtCodAct;
private System.Windows.Forms.Label label3;
private System.Windows.Forms.Label label34;
private System.Windows.Forms.Label label37;
private System.Windows.Forms.Label label27;
private System.Windows.Forms.Label label26;
private System.Windows.Forms.TextBox txtDesignacao;
private System.Windows.Forms.MaskedTextBox mtbPreco;
private System.Windows.Forms.MaskedTextBox mtbIdaMin;
private System.Windows.Forms.MaskedTextBox mtbIdaMax;
private System.Windows.Forms.ComboBox cbbTipo;
private System.Windows.Forms.DateTimePicker dtpDatIni;
private System.Windows.Forms.DateTimePicker dtpDatFim;
private System.Windows.Forms.Label label11;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.GroupBox gbObs;
private System.Windows.Forms.RichTextBox rtbObs;
private System.Windows.Forms.Button btnProCod;
private System.Windows.Forms.Button btnProDes;
private System.Windows.Forms.ToolStripMenuItem tsmiTodos;
private System.Windows.Forms.MaskedTextBox mtbNFunNec;
private System.Windows.Forms.Label label4;
private System.Windows.Forms.ComboBox cbbCaracter;
private System.Windows.Forms.Label label5;
private System.Windows.Forms.MaskedTextBox mtbHorIni;
private System.Windows.Forms.MaskedTextBox mtbHorFim;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator2;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator3;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator4;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator1;
private System.Windows.Forms.ToolStripButton tsbUmBaixo;
private System.Windows.Forms.ToolStripButton tsbUltimo;
private System.Windows.Forms.ToolStripButton tsbUmCima;
private System.Windows.Forms.ToolStripButton tsbPrimeiro;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator5;

```

```
        private System.Windows.Forms.ToolStripButton tsbAtualizar;
    }
}
```

frmActividade.resx

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

Microsoft ResX Schema

Version 2.0

The primary goals of this format is to allow a simple XML format that is mostly human readable. The generation and parsing of the various data types are done through the TypeConverter classes associated with the data types.

Example:

```
... ado.net/XML headers & schema ...
<resheader name="resmimetype">text/microsoft-resx</resheader>
<resheader name="version">2.0</resheader>
<resheader name="reader">System.Resources.ResXResourceReader, System.Windows.Forms,
...</resheader>
<resheader name="writer">System.Resources.ResXResourceWriter, System.Windows.Forms,
...</resheader>
<data name="Name1"><value>this is my long string</value><comment>this is a
comment</comment></data>
<data name="Color1" type="System.Drawing.Color, System.Drawing">Blue</data>
<data name="Bitmap1" mimetype="application/x-microsoft.net.object.binary.base64">
  <value>[base64 mime encoded serialized .NET Framework object]</value>
</data>
<data name="Icon1" type="System.Drawing.Icon, System.Drawing"
mimetype="application/x-microsoft.net.object.bytearray.base64">
  <value>[base64 mime encoded string representing a byte array form of the .NET
Framework object]</value>
  <comment>This is a comment</comment>
</data>
```

There are any number of "resheader" rows that contain simple name/value pairs.

Each data row contains a name, and value. The row also contains a type or mimetype. Type corresponds to a .NET class that support text/value conversion through the TypeConverter architecture. Classes that don't support this are serialized and stored with the mimetype set.

The mimetype is used for serialized objects, and tells the ResXResourceReader how to depersist the object. This is currently not extensible. For a given mimetype the value must be set accordingly:

Note - application/x-microsoft.net.object.binary.base64 is the format that the ResXResourceWriter will generate, however the reader can read any of the formats listed below.

```

mimetype: application/x-microsoft.net.object.binary.base64
value    : The object must be serialized with
          : System.Runtime.Serialization.Formatters.Binary.BinaryFormatter
          : and then encoded with base64 encoding.

mimetype: application/x-microsoft.net.object.soap.base64
value    : The object must be serialized with
          : System.Runtime.Serialization.Formatters.Soap.SoapFormatter
          : and then encoded with base64 encoding.

mimetype: application/x-microsoft.net.object.bytearray.base64
value    : The object must be serialized into a byte array
          : using a System.ComponentModel.TypeConverter
          : and then encoded with base64 encoding.
-->
<xsd:schema id="root" xmlns="" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
  <xsd:import namespace="http://www.w3.org/XML/1998/namespace" />
  <xsd:element name="root" msdata:IsDataSet="true">
    <xsd:complexType>
      <xsd:choice maxOccurs="unbounded">
        <xsd:element name="metadata">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="value" type="xsd:string" minOccurs="0" />
            </xsd:sequence>
            <xsd:attribute name="name" use="required" type="xsd:string" />
            <xsd:attribute name="type" type="xsd:string" />
            <xsd:attribute name="mimetype" type="xsd:string" />
            <xsd:attribute ref="xml:space" />
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="assembly">
          <xsd:complexType>
            <xsd:attribute name="alias" type="xsd:string" />
            <xsd:attribute name="name" type="xsd:string" />
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="data">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="value" type="xsd:string" minOccurs="0"
msdata:Ordinal="1" />
              <xsd:element name="comment" type="xsd:string" minOccurs="0"
msdata:Ordinal="2" />
            </xsd:sequence>
            <xsd:attribute name="name" type="xsd:string" use="required"
msdata:Ordinal="1" />
            <xsd:attribute name="type" type="xsd:string" msdata:Ordinal="3" />
            <xsd:attribute name="mimetype" type="xsd:string" msdata:Ordinal="4" />
            <xsd:attribute ref="xml:space" />
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="resheader">
          <xsd:complexType>
            <xsd:sequence>

```

```

        <xsd:element name="value" type="xsd:string" minOccurs="0"
msdata:Ordinal="1" />
    </xsd:sequence>
    <xsd:attribute name="name" type="xsd:string" use="required" />
</xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:complexType>
</xsd:element>
</xsd:schema>
<resheader name="resmimetype">
    <value>text/microsoft-resx</value>
</resheader>
<resheader name="version">
    <value>2.0</value>
</resheader>
<resheader name="reader">
    <value>System.Resources.ResXResourceReader, System.Windows.Forms, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089</value>
</resheader>
<resheader name="writer">
    <value>System.Resources.ResXResourceWriter, System.Windows.Forms, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089</value>
</resheader>
<metadata name="ssActividade.TrayLocation" type="System.Drawing.Point,
System.Drawing, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>17, 17</value>
</metadata>
<metadata name="hpActividade.TrayLocation" type="System.Drawing.Point,
System.Drawing, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>226, 17</value>
</metadata>
<metadata name="tpActividade.TrayLocation" type="System.Drawing.Point,
System.Drawing, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>346, 17</value>
</metadata>
<metadata name="tmrActividade.TrayLocation" type="System.Drawing.Point,
System.Drawing, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>451, 17</value>
</metadata>
<metadata name="tsProfissao.TrayLocation" type="System.Drawing.Point, System.Drawing,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>563, 17</value>
</metadata>
<assembly alias="System.Drawing" name="System.Drawing, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" />
<data name="tsdbProcurar.Image" type="System.Drawing.Bitmap, System.Drawing"
mimetype="application/x-microsoft.net.object.bytearray.base64">
    <value>

iVBORw0KGgoAAAANSUhEUgAAABAAAAQCAyAAAAf8/9hAAAAAXNSR0IArs4c6QAAARnQU1BAACxjwv8
YQUAAAgY0hSTQAAeiYAAICEAAD6AAAAgOgAAHUwAADqYAAAOpgAABdwnLpRPAAAAddJREFUOE+dk99L
U2Ecxo/9BdJfFNRfkBcLvBB3vSvbDyS6OInlOocRGE09KEZm5izWD9LFxmQ4ZbEfKaLbUhZzSmI115gW
rj593zPqxrOlvfBcHT7P83y/73t6tC4nldqmWD3UD05aWm/vee3ccUurFiOa2+3u6cZZ317HCuxU6uwf

```


Q/Y7xL7CSgOm801uj0fpaqCSk6Ua6nw+gkQV5nchsgfxA5hdb+D13uls8mqpTPYQtr5BVKBEHZJNWP0B
y2K4It/0uwuYpmlvMpOokBYg+lGqS5GsNNkSvRMVRGstGJ/P4HK57A0exNsGczvt5E2BKikZhE+iomjy
eQaHw2Fv8CJeJim1n32QulJbJStY9olMQElk3lvobJDLvWcmXWNJdqBmVrX3RXIZ1il9aTA4eM1+BAoP
2XibZswI8zhfJyUjrP1st9gWlWtN9NH7VvqJJZIL8Guxj7x5hYBh4PEY3JyKEYzkeLpaZvr1OkNuowOc
MS14c+QSj4aHuXF9A13XCYVCVlWVqOR0Om2SpTbRPoqjFy044H9Cf/8AwWCw+4tTz5G9OCxePgH7fL5/
w8rgTcTP7tgFzr1X/yafG1YG4XAYv0fgW3NW7TPBf/4odR1qQf8D/wYP+cBmtciisQAAAABJR5ErkJg
gg==
</value>
</data>
<data name="tsbNovo.Image" type="System.Drawing.Bitmap, System.Drawing"
mimetype="application/x-microsoft.net.object.bytearray.base64">
<value>

iVBORw0KGgoAAAANSUhEUgAAADAAAAAwCAYAAABXAvmHAAAAAXNSR0IArs4c6QAAARnQU1BAACxjwv8
YQUAAAgY0hSTQAAeiYAAICEAAD6AAAAgOgAAHUwAADqYAAAOpgAABdwnLpRPAAC/NJREFUaEPFmXlw
leUVxu0/baWjU0eFdHVsx2HqTMWpdfzHTq2djlPUEAWkFIqAuOFWF4ZFdgEBUQapoihSWSOGfZMAIlsS
EmJCSAgJISGEG7IHcu/97n36nPO+73e/JDCGj86UmUPClvzOw3Oec757r0m7zI/Fh5O46YfJNCSTacmE
fEykJfm5/BqJBIu/737t/oy/7/4ukuCfm78n/zb4dczn5veqalr1682Z8MA112MJ9fuL9sfghCU3yMB
z/004vE4YrGYVjQaRxt7Oy5evKh14cIFtLWlabW2tqKlpQXNzS1obGpGQ2MT6uobETnfiNq6BpyN1OOV
KZuwqbwOA4bPRA/b7setdzyAG3o/hrS0Sayr+LHwm4sUKKk9yM8J/uTx13F+EvOA9jhwUYp9XmC1RYGW
dqCZldSeRONF1oUk6tuSOM+qa2W1JHGOVducxFlWTVMCL0/MxJ42YNyKCjw+bC5+yibSb3sQN95+/9U1
8R6/qgguPQi4lwDiXhJRVns8SfikBU+ilcBSzawmC97g4FsThE8gwgZ8eILXNCVxpjGBF8evw5YI8EoW
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using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;
using OpeControls;
```

```
namespace Infanto
{
    public partial class frmAluno : Form
    {
        OpeControl oC = new OpeControl();
        private Aluno al = new Aluno();

        private int actPreFor = 0;
        private int curData = -1;

        //chaves
        public static string nAluno = "";
        public static string anoA = "";

        //Operações

        string operacao = null;

        public frmAluno()
        {
            InitializeComponent();
        }

        private void pictureBox1_Click(object sender, EventArgs e)
        {
            ofdFoto.ShowDialog();
        }

        private void btnGravar_Click(object sender, EventArgs e)
        {
            if (ValidaGravar() == 1)
            {
                MBVDados("Erro na introdução dos dados!");
                return;
            }

            if (operacao == "novo")
            {
                GravaAluno(CriaAlunoDF());
            }
            if (operacao == "actualizar")
            {
                BindingCampos(curData);

                ActualizarAluno();
            }
        }

        private void tmrAluno_Tick(object sender, EventArgs e)
        {
            //DateTime hora = DateTime.Now;
            //tsslALTimer.Text = hora.TimeOfDay.ToString();
            //if ( lblAnos.Text == "" )
            //{

```

```

        //      lblAnos.Text = Convert.ToString( DateTime.Now - dtpDatNas.Value);
        //}
    }

    private void frmAluno_Load(object sender, EventArgs e)
    {

        //oC.OperacoesControls(this, "enable" , 0, "TextBox" );
        //oC.OperacoesControls(this, "enable" , 0, "TabControl" );
        //oC.OpTabPag(tpAluno, "enable", 0, "TextBox");
        //oC.OpTabPag(tpAluno, "enable", 0, "MaskedTextBox");
        //oC.OpTabPag(tpAluno, "enable", 0, "DateTimePicker");
        //oC.OpTabPag(tpAluno, "enable", 0, "ComboBox");
        //oC.OpTabPag(tpAluno, "enable", 0, "CheckBox");
        FrmCtrlsD();
        Ctrls.FrmBS(btnProCod, 1, 1);
        Ctrls.FrmBS(btnProDes, 1, 1);

    }

    private void FrmCtrlsD()
    {
        oC.OperacoesControls(this, "visible", 0, "Button");
        oC.OpTabPag(tpAluno, "enable", 0);
        oC.OpGB(gbFinanceiro, "enable", 0);
        oC.OpGB(gbEncEdu, "enable", 0);
        oC.OpGB(gbPesAutLevCri, "enable", 0);

        oC.OpGB(gbPai, "enable", 0);
        oC.OpGB(gbMae, "enable", 0);
        oC.OpGB(gbFinanceiro, "enable", 0);

        oC.OpTabPag(tpObservacoes, "enable", 0, "ListBox");

    }

    private void FrmCtrlsE()
    {
        oC.OperacoesControls(this, "visible", 1, "Button");
        oC.OpTabPag(tpAluno, "enable", 1);
        oC.OpGB(gbFinanceiro, "enable", 1);
        oC.OpGB(gbEncEdu, "enable", 1);
        oC.OpGB(gbPesAutLevCri, "enable", 1);

        oC.OpGB(gbPai, "enable", 1);
        oC.OpGB(gbMae, "enable", 1);
        oC.OpGB(gbFinanceiro, "enable", 1);

        oC.OpTabPag(tpObservacoes, "enable", 1, "ListBox");

    }

    private void FrmTextBoxTC()
    {
        oC.OpTabPag(tpAluno, "text", 1);
        oC.OpGB(gbFinanceiro, "text", 1);
    }

```

```
oC.OpGB(gbEncEdu, "text", 1);
oC.OpGB(gbPesAutLevCri, "text", 1);

oC.OpGB(gbPai, "text", 1);
oC.OpGB(gbMae, "text", 1);
oC.OpGB(gbFinanceiro, "text", 1);

oC.OpTabPage(tpObservacoes, "text", 1, "ListBox");

}

private void tsbFANovo_Click(object sender, EventArgs e)
{
    FrmCtIsE();
}

private void btnCancelar_Click(object sender, EventArgs e)
{
    FrmTextBoxTC();
    FrmCtIsD();
}

private void tsbNovaFic_Click(object sender, EventArgs e)
{
    operacao = "novo";
    FrmCtIsE();
}

//Valida os dados para gravação
private int ValidaGravar()
{
    try
    {
        if (mtbCodPos.Text.Length < 7)
        {
            MBVDados("O Código Postal tem de ter 7 digitos");
            return 1;
        }
    }
    catch (Exception erro)
    {
        MBVDados("ERRO:" + erro.ToString());
        return 1;
    }
    return 0;
}

//Mensagem de erro na introdução dos dados
private void MBVDados(string mensagem)
{
    MessageBox.Show(mensagem, "Erro na introdução dos dados",
        MessageBoxButtons.OK, MessageBoxIcon.Error);
}
}
```

```

//Cria o objecto aluno
private Aluno CriaAlunoDF()
{
    al.SetAlu(txtNAluno.Text , decimal.Parse(txtAno.Text) , txtNome.Text ,
txtApelido.Text
        , txtMorada.Text , txtLocalidade.Text , mtbCodPos.Text ,
        cbbNacionalidade.Text , mtbTelefone.Text, mtbTelemovel.Text ,
        cbbEdu.Text , mtbDatNas.Text, mtbBI.Text,
        txtBILocEmi.Text, txtNaturalidade.Text , mtbDatEmi.Text ,
        mtbContribuinte.Text, cbbSexo.Text , rtbObs.Text , txtDesconto.Text);

    return al;
}

//Retorna o encarregado EDU

//Retorna sexo
//private string Sexo()
//{
//    if (rbF.Checked == true)
//    {
//        return "Feminino";
//    }
//    else
//    {
//        return "Masculino";
//    }
//}

//Faz a correspondencia dos dados nos controls com o aluno
//e manda gravar se não houver erros
private void GravaAluno(Aluno al)
{
    string[] dados = new string[20];
    string[] parametros = new string[20];

    dados[0] = al.NAluno1 ;
    dados[1] = (al.AnoA1).ToString() ;
    dados[2] = al.NomeA1 ;
    dados[3] = al.ApelidoA1 ;
    dados[4] = al.MoradaA1 ;
    dados[5] = al.LocalidadeA1 ;
    dados[6] = al.CodigoPostalA1 ;
    dados[7] = al.NacionalidadeA1 ;
    dados[8] = al.NaturalidadeA1 ;
    dados[9] = al.TelefoneA1 ;
    dados[10] = al.Telemovel1 ;
    dados[11] = al.EncarregadoEdu1 ;
    dados[12] = al.DataNascAluno1.ToString() ;
    dados[13] = al.BiAluno1.ToString() ;
    dados[14] = al.BilocalEmissaoA11 ;

```

```

dados[15] = al.BiDataEmissaoAl1.ToString(); ;
dados[16] = al.NContribuinteAl1 ;
dados[17] = al.Sexo1 ;
dados[18] = al.ObsAL1 ;
dados[19] = al.DescontoAL1.ToString();

parametros[0] = "NALUNO";
parametros[1] = "ANOA";
parametros[2] = "NOMEA";
parametros[3] = "APELIDOA";
parametros[4] = "MORADAA";
parametros[5] = "LOCALIDADEA";
parametros[6] = "CODIGOPOSTALA";
parametros[7] = "NACIONALIDADEA";
parametros[8] = "NATURALIDADEA";
parametros[9] = "TELEFONEA";
parametros[10] = "TELEMOVEA";
parametros[11] = "ENCARREGADOEDU";
parametros[12] = "DATANASCALUNO";
parametros[13] = "BIALUNO";
parametros[14] = "BILOCALEMISSAOAL";
parametros[15] = "BIDATAEMISSAOAL";
parametros[16] = "NCONTRIBUINTEAL";
parametros[17] = "SEXO";
parametros[18] = "OBSAL";
parametros[19] = "DESCONTOAL";

string gravar = null;

DTear dt = new DTear();

gravar = dt.Insert(parametros, dados, "insAluno");

if (gravar != "")
{
    MessageBox.Show(gravar);
}
else
{
    MessageBox.Show("Aluno : " + dados[0] + " gravado",
        "REGISTO GRAVADO", MessageBoxButtons.OK,
        MessageBoxIcon.Information);
    operacao = "gravado";
    AdiAlu(al);
}
dados = null;

Ctrls.FrmBGC(this, 0);
Ctrls.FrmBS(btnProCod, 1, 1);
Ctrls.FrmBS(btnProDes, 1, 1);

}

//Adiciona um objecto aluno á lista dos alunos
private void AdiAlu(Aluno al)

```

```

{
    DTear.LSAluno.Add(al);

    curData = DTear.LSAluno.FindIndex(delegate(Aluno a)
    {
        return a.NAluno1 + a.AnoA1 == al.NAluno1 + al.AnoA1 ;
    });
}

private void ActualizarAluno()
{
    string[] parametros = new string[20];
    string[] dados = new string[20];
    string sp = "actAluno";

    dados[0] = DTear.LSAluno[curData].NAluno1;
    dados[1] = DTear.LSAluno[curData].AnoA1.ToString();
    dados[2] = DTear.LSAluno[curData].NomeA1;
    dados[3] = DTear.LSAluno[curData].ApelidoA1;
    dados[4] = DTear.LSAluno[curData].MoradaA1;
    dados[5] = DTear.LSAluno[curData].LocalidadeA1;
    dados[6] = DTear.LSAluno[curData].CodigoPostalA1;
    dados[7] = DTear.LSAluno[curData].NacionalidadeA1;
    dados[8] = DTear.LSAluno[curData].TelefoneA1;
    dados[9] = DTear.LSAluno[curData].Telemovel1;
    dados[10] = DTear.LSAluno[curData].EncarregadoEdu1;
    dados[11] = DTear.LSAluno[curData].DataNascAluno1.ToString();
    dados[12] = DTear.LSAluno[curData].BiAluno1.ToString();
    dados[13] = DTear.LSAluno[curData].BilocalEmissaoA11;
    dados[14] = DTear.LSAluno[curData].NaturalidadeA1;
    dados[15] = DTear.LSAluno[curData].BiDataEmissaoA11.ToString();
    dados[16] = DTear.LSAluno[curData].NContribuinteA11;
    dados[17] = DTear.LSAluno[curData].Sexo1;
    dados[18] = DTear.LSAluno[curData].ObsA11;
    dados[19] = DTear.LSAluno[curData].DescontoA11.ToString();

    parametros[0] = "NALUNO";
    parametros[1] = "ANOA";
    parametros[2] = "NOMEA";
    parametros[3] = "APELIDOA";
    parametros[4] = "MORADAA";
    parametros[5] = "LOCALIDADEA";
    parametros[6] = "CODIGOPOSTALA";
    parametros[7] = "NACIONALIDADEA";
    parametros[8] = "NATURALIDADEA";
    parametros[9] = "TELEFONEA";
    parametros[10] = "TELEMOVEL";
    parametros[11] = "ENCARREGADOEDU";
    parametros[12] = "DATANASCALUNO";
    parametros[13] = "BIALUNO";
    parametros[14] = "BILOCALEMISSAOAL";
    parametros[15] = "BIDATAEMISSAOAL";

```



```

parametros[16] = "NCONTRIBUINTEAL";
parametros[17] = "SEXO";
parametros[18] = "OBSAL";
parametros[19] = "DESCONTOAL";

DTear dt = new DTear();

string gravar = null;

gravar = dt.Update(parametros, dados, sp).ToString();

if (gravar != "")
{
    MessageBox.Show(gravar);
}
else
{
    MessageBox.Show("Aluno :" + dados[0] + " Actualizado",
        "REGISTO ACTUALIZADO", MessageBoxButtons.OK,
        MessageBoxIcon.Information);
    operacao = "actualizar";
}

dados = null;

Ctrls.FrmBGC(this, 0);
Ctrls.FrmBS(btnProCod, 1, 1);
Ctrls.FrmBS(btnProDes, 1, 1);

}

private void tsbApagaFic_Click(object sender, EventArgs e)
{
    string resultado = null;
    if (operacao != "gravado" & curData == -1)
    {
        MessageBox.Show("Não Existe nada para apagar", "APAGAR REGISTO",
            MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
    }
    else
    {
        resultado = MessageBox.Show("Tem a certeza que quer apagar o registo",
            "Apagar Registo",
            MessageBoxButtons.YesNo, MessageBoxIcon.Warning).ToString();
        if (resultado == "Yes")
        {
            ApagaAluno();
        }
        else { MessageBox.Show("Registo não apagado"); }
    }
}

//Apaga um objecto aluno da lista e da base de dados
private void ApagaAluno()

```

```

{
    string apagar = null;

    DTear dt = new DTear();

    apagar = dt.Delete(DTear.LSAluno[curData].NALuno1, "aluno", "NALuno");

    if (apagar != "")
    {
        MessageBox.Show(apagar);
    }
    else
    {
        MessageBox.Show(DTear.LSAluno.Count.ToString());
        MessageBox.Show("Aluno :" + DTear.LSAluno[curData].NALuno1.ToString() +
" apagado",
                        "REGISTO APAGADO", MessageBoxButtons.OK,
MessageBoxIcon.Information);
        operacao = "apagado";

        DTear.LSAluno.RemoveAt(curData);

        if (DTear.LSAluno.Count > -1)
        {
            curData = DTear.LSAluno.Count - 1;

            BindingCampos(curData);
        }
        else
        {
            //MessageBox.Show(DTear.LSActividade.Count.ToString());

            Ctrls.FrmBGC(this, 0);
            Ctrls.FrmBS(btnProCod, 1, 1);
            Ctrls.FrmBS(btnProDes, 1, 1);
            Ctrls.FrmCtrlsED(this, 0);
            Ctrls.FrmCtrlTXT(this, 1);
        }
        al = null;
    }
}

//Binding do objecto aluno ao controls do form
private void BindingCampos(int regAct)
{
    txtNALuno.DataBindings.Clear();
    txtAno.DataBindings.Clear();
    txtNome.DataBindings.Clear();
    txtApelido.DataBindings.Clear();
    txtMorada.DataBindings.Clear();
    txtLocalidade.DataBindings.Clear();
    mtbCodPos.DataBindings.Clear();
    cbbNacionalidade.DataBindings.Clear();
    mtbTelefone.DataBindings.Clear();
}

```

```

        mtbTelemovel.DataBindings.Clear();
        cbbEdu.DataBindings.Clear();
        mtbDatNas.DataBindings.Clear();
        mtbBI.DataBindings.Clear();
        txtBIlocEmi.DataBindings.Clear();
        txtNaturalidade.DataBindings.Clear();
        mtbDatEmi.DataBindings.Clear();
        mtbContribuinte.DataBindings.Clear();
        cbbSexo.DataBindings.Clear();
        rtbObs.DataBindings.Clear();
        txtDesconto.DataBindings.Clear();

        if (DTear.LSAluno.Count > 0)
        {
            txtNALuno.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"NALuno1"));
            txtAno.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"AnoA1"));
            txtNome.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"NomeA1"));
            txtApelido.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"ApelidoA1"));
            txtMorada.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"MoradaA1"));
            txtLocalidade.DataBindings.Add(new Binding("Text",
DTear.LSAluno[regAct], "LocalidadeA1"));
            mtbCodPos.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"CodigoPostalA1"));
            cbbNacionalidade.DataBindings.Add(new Binding("Text",
DTear.LSAluno[regAct], "NacionalidadeA1"));
            mtbTelefone.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"TelefoneA1"));
            mtbTelemovel.DataBindings.Add(new Binding("Text",
DTear.LSAluno[regAct], "Telemovel1"));
            cbbEdu.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"EncarregadoEdu1"));
            mtbDatNas.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"DataNascAluno1"));
            mtbBI.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"BiAluno1"));
            txtBIlocEmi.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"BilocalEmissaoA1"));
            txtNaturalidade.DataBindings.Add(new Binding("Text",
DTear.LSAluno[regAct], "NaturalidadeA1"));
            mtbDatEmi.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"BiDataEmissaoA1"));
            mtbContribuinte.DataBindings.Add(new Binding("Text",
DTear.LSAluno[regAct], "NContribuinteA1"));
            cbbSexo.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"Sexo1"));
            rtbObs.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"ObsA11"));
            txtDesconto.DataBindings.Add(new Binding("Text", DTear.LSAluno[regAct],
"DescontoA11"));
        }
    }
}

```

```

private void btnProCod_Click(object sender, EventArgs e)
{
    frmProcura frmPro = new frmProcura();
    Procuras.proTxt = "Procura por código de aluno";
    Procuras.tabela = "ALUNO";
    Procuras.proPar = "NALuno";
    Procuras.entidade = "frmAluno";
    frmPro.ShowDialog();
    if (nAluno != "")
    {
        RetAlu(nAluno);
    }
}

//Retorna o objecto aluno pedido
private void RetAlu(string cod)
{
    curData = DTear.LSAluno.FindIndex(delegate (Aluno a)
    {
        return a.NAluno1 == cod;
    });

    BindingCampos(curData);
}

private void tsbAtualizar_Click(object sender, EventArgs e)
{
    if (curData != -1)
    {
        operacao = "actualizar";
        Ctrls.FrmBGC(this, 1);
        Ctrls.FrmBS(btnProCod, 1, 0);
        Ctrls.FrmBS(btnProDes, 1, 0);
        Ctrls.FrmCtlSED(this, 1);
    }
    else
    {
        MessageBox.Show("Não Existe nada para actualizar", "ACTUALIZAR
REGISTO",
        MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
    }
}

private void tsbUmBaixo_Click(object sender, EventArgs e)
{
    if (DTear.LSAluno.Count > 1 & curData > -1 & curData < DTear.LSAluno.Count
- 1)
    {
        curData = curData + 1;
        BindingCampos(curData);
    }
}

private void tsbUltimo_Click(object sender, EventArgs e)
{

```

```

- 1)
        if (DTear.LSAluno.Count > 1 & curData > -1 & curData < DTear.LSAluno.Count
        {
            curData = DTear.LSAluno.Count - 1;
            BindingCampos(curData);
        }
    }

    private void tsbUmCima_Click(object sender, EventArgs e)
    {
        if (DTear.LSAluno.Count > 1 & curData > -1 & curData > 0)
        {
            curData = curData - 1;
            BindingCampos(curData);
        }
    }

    private void tsbPrimeiro_Click(object sender, EventArgs e)
    {
        if (DTear.LSAluno.Count > 1 & curData > -1 & curData > 0)
        {
            curData = 0;
            BindingCampos(curData);
        }
    }
}

```

frmAluno.Designer.cs

```

namespace Infanto
{
    partial class frmAluno
    {
        /// <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.components = new System.ComponentModel.Container();
    System.ComponentModel.ComponentResourceManager resources = new
System.ComponentModel.ComponentResourceManager(typeof(frmAluno));
    this.btnGravar = new System.Windows.Forms.Button();
    this.btnCancel = new System.Windows.Forms.Button();
    this.ofdFoto = new System.Windows.Forms.OpenFileDialog();
    this.tbcFicAlu = new System.Windows.Forms.TabControl();
    this.tpAluno = new System.Windows.Forms.TabPage();
    this.pbFoto1 = new System.Windows.Forms.PictureBox();
    this.gbEncEdu = new System.Windows.Forms.GroupBox();
    this.cbbEdu = new System.Windows.Forms.ComboBox();
    this.checkBox4 = new System.Windows.Forms.CheckBox();
    this.checkBox5 = new System.Windows.Forms.CheckBox();
    this.checkBox6 = new System.Windows.Forms.CheckBox();
    this.label158 = new System.Windows.Forms.Label();
    this.label157 = new System.Windows.Forms.Label();
    this.cbbTurma = new System.Windows.Forms.ComboBox();
    this.gbFinanceiro = new System.Windows.Forms.GroupBox();
    this.cbbPagMenOut = new System.Windows.Forms.ComboBox();
    this.checkBox3 = new System.Windows.Forms.CheckBox();
    this.checkBox1 = new System.Windows.Forms.CheckBox();
    this.label32 = new System.Windows.Forms.Label();
    this.checkBox2 = new System.Windows.Forms.CheckBox();
    this.txtConCor = new System.Windows.Forms.TextBox();
    this.lblConCor = new System.Windows.Forms.Label();
    this.gbSexo = new System.Windows.Forms.GroupBox();
    this.gbPesAutLevCri = new System.Windows.Forms.GroupBox();
    this.listBox1 = new System.Windows.Forms.ListBox();
    this.ckbOutos = new System.Windows.Forms.CheckBox();
    this.ckbMae = new System.Windows.Forms.CheckBox();
    this.ckbPai = new System.Windows.Forms.CheckBox();
    this.lblAnos = new System.Windows.Forms.Label();
    this.mtbNumBen = new System.Windows.Forms.MaskedTextBox();
    this.label25 = new System.Windows.Forms.Label();
    this.mtbContribuinte = new System.Windows.Forms.MaskedTextBox();
    this.label24 = new System.Windows.Forms.Label();
    this.label23 = new System.Windows.Forms.Label();
    this.label22 = new System.Windows.Forms.Label();
    this.txtBILocEmi = new System.Windows.Forms.TextBox();
    this.mtbBI = new System.Windows.Forms.MaskedTextBox();
    this.label21 = new System.Windows.Forms.Label();
    this.label20 = new System.Windows.Forms.Label();
    this.mtbTelemovel = new System.Windows.Forms.MaskedTextBox();
    this.label19 = new System.Windows.Forms.Label();
    this.label18 = new System.Windows.Forms.Label();
    this.mtbTelefone = new System.Windows.Forms.MaskedTextBox();
    this.txtNaturalidade = new System.Windows.Forms.TextBox();
    this.label17 = new System.Windows.Forms.Label();
    this.label8 = new System.Windows.Forms.Label();
    this.cbbNacionalidade = new System.Windows.Forms.ComboBox();
    this.label7 = new System.Windows.Forms.Label();

```

```

this.mtbCodPos = new System.Windows.Forms.MaskedTextBox();
this.txtLocalidade = new System.Windows.Forms.TextBox();
this.label6 = new System.Windows.Forms.Label();
this.txtMorada = new System.Windows.Forms.TextBox();
this.label5 = new System.Windows.Forms.Label();
this.label4 = new System.Windows.Forms.Label();
this.txtAno = new System.Windows.Forms.TextBox();
this.txtApelido = new System.Windows.Forms.TextBox();
this.txtNome = new System.Windows.Forms.TextBox();
this.label3 = new System.Windows.Forms.Label();
this.label2 = new System.Windows.Forms.Label();
this.txtNALuno = new System.Windows.Forms.TextBox();
this.label1 = new System.Windows.Forms.Label();
this.pcbFoto = new System.Windows.Forms.PictureBox();
this.tpFicCli = new System.Windows.Forms.TabPage();
this.label59 = new System.Windows.Forms.Label();
this.textBox16 = new System.Windows.Forms.TextBox();
this.listBox2 = new System.Windows.Forms.ListBox();
this.checkBox7 = new System.Windows.Forms.CheckBox();
this.textBox17 = new System.Windows.Forms.TextBox();
this.label60 = new System.Windows.Forms.Label();
this.textBox18 = new System.Windows.Forms.TextBox();
this.label61 = new System.Windows.Forms.Label();
this.tpParente = new System.Windows.Forms.TabPage();
this.gbMae = new System.Windows.Forms.GroupBox();
this.maskedTextBox8 = new System.Windows.Forms.MaskedTextBox();
this.textBox10 = new System.Windows.Forms.TextBox();
this.maskedTextBox9 = new System.Windows.Forms.MaskedTextBox();
this.label42 = new System.Windows.Forms.Label();
this.label43 = new System.Windows.Forms.Label();
this.maskedTextBox10 = new System.Windows.Forms.MaskedTextBox();
this.label44 = new System.Windows.Forms.Label();
this.label45 = new System.Windows.Forms.Label();
this.dateTimePicker3 = new System.Windows.Forms.DateTimePicker();
this.dateTimePicker4 = new System.Windows.Forms.DateTimePicker();
this.label46 = new System.Windows.Forms.Label();
this.label47 = new System.Windows.Forms.Label();
this.maskedTextBox11 = new System.Windows.Forms.MaskedTextBox();
this.label48 = new System.Windows.Forms.Label();
this.label49 = new System.Windows.Forms.Label();
this.maskedTextBox12 = new System.Windows.Forms.MaskedTextBox();
this.textBox11 = new System.Windows.Forms.TextBox();
this.label50 = new System.Windows.Forms.Label();
this.label51 = new System.Windows.Forms.Label();
this.comboBox3 = new System.Windows.Forms.ComboBox();
this.maskedTextBox13 = new System.Windows.Forms.MaskedTextBox();
this.textBox12 = new System.Windows.Forms.TextBox();
this.label52 = new System.Windows.Forms.Label();
this.textBox13 = new System.Windows.Forms.TextBox();
this.label53 = new System.Windows.Forms.Label();
this.label54 = new System.Windows.Forms.Label();
this.label55 = new System.Windows.Forms.Label();
this.label56 = new System.Windows.Forms.Label();
this.textBox14 = new System.Windows.Forms.TextBox();
this.textBox15 = new System.Windows.Forms.TextBox();
this.pictureBox3 = new System.Windows.Forms.PictureBox();
this.gbPai = new System.Windows.Forms.GroupBox();

```

```
this.maskedTextBox3 = new System.Windows.Forms.MaskedTextBox();
this.textBox8 = new System.Windows.Forms.TextBox();
this.maskedTextBox5 = new System.Windows.Forms.MaskedTextBox();
this.label31 = new System.Windows.Forms.Label();
this.label35 = new System.Windows.Forms.Label();
this.maskedTextBox4 = new System.Windows.Forms.MaskedTextBox();
this.label36 = new System.Windows.Forms.Label();
this.label33 = new System.Windows.Forms.Label();
this.dateTimePicker1 = new System.Windows.Forms.DateTimePicker();
this.dateTimePicker2 = new System.Windows.Forms.DateTimePicker();
this.label34 = new System.Windows.Forms.Label();
this.label37 = new System.Windows.Forms.Label();
this.maskedTextBox6 = new System.Windows.Forms.MaskedTextBox();
this.label38 = new System.Windows.Forms.Label();
this.label39 = new System.Windows.Forms.Label();
this.maskedTextBox7 = new System.Windows.Forms.MaskedTextBox();
this.textBox9 = new System.Windows.Forms.TextBox();
this.label40 = new System.Windows.Forms.Label();
this.label41 = new System.Windows.Forms.Label();
this.comboBox2 = new System.Windows.Forms.ComboBox();
this.mtbCodPosPai = new System.Windows.Forms.MaskedTextBox();
this.txtMorPai = new System.Windows.Forms.TextBox();
this.label30 = new System.Windows.Forms.Label();
this.txtLocPai = new System.Windows.Forms.TextBox();
this.label29 = new System.Windows.Forms.Label();
this.label28 = new System.Windows.Forms.Label();
this.label27 = new System.Windows.Forms.Label();
this.label26 = new System.Windows.Forms.Label();
this.txtApePai = new System.Windows.Forms.TextBox();
this.txtNomPai = new System.Windows.Forms.TextBox();
this.pictureBox2 = new System.Windows.Forms.PictureBox();
this.tpFinanceiro = new System.Windows.Forms.TabPage();
this.tpObservacoes = new System.Windows.Forms.TabPage();
this.label9 = new System.Windows.Forms.Label();
this.comboBox1 = new System.Windows.Forms.ComboBox();
this.label10 = new System.Windows.Forms.Label();
this.maskedTextBox1 = new System.Windows.Forms.MaskedTextBox();
this.textBox1 = new System.Windows.Forms.TextBox();
this.label11 = new System.Windows.Forms.Label();
this.textBox2 = new System.Windows.Forms.TextBox();
this.label12 = new System.Windows.Forms.Label();
this.label13 = new System.Windows.Forms.Label();
this.textBox3 = new System.Windows.Forms.TextBox();
this.textBox4 = new System.Windows.Forms.TextBox();
this.textBox5 = new System.Windows.Forms.TextBox();
this.label14 = new System.Windows.Forms.Label();
this.label15 = new System.Windows.Forms.Label();
this.textBox6 = new System.Windows.Forms.TextBox();
this.label16 = new System.Windows.Forms.Label();
this.pictureBox1 = new System.Windows.Forms.PictureBox();
this.tsdbProcurar = new System.Windows.Forms.ToolStripDropDownButton();
this.tsbNovo = new System.Windows.Forms.ToolStripButton();
this.tsbApagar = new System.Windows.Forms.ToolStripButton();
this.tsdbOpcDiv = new System.Windows.Forms.ToolStripDropDownButton();
this.tsbMapas = new System.Windows.Forms.ToolStripButton();
this.tsbAjuda = new System.Windows.Forms.ToolStripButton();
this.ssAluno = new System.Windows.Forms.StatusStrip();
```



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        this.tsslALStatus = new System.Windows.Forms.ToolStripStatusLabel();
        this.tsslTime = new System.Windows.Forms.ToolStripStatusLabel();
        this.tsslTimer = new System.Windows.Forms.ToolStripStatusLabel();
        this.tsslALTimer = new System.Windows.Forms.ToolStripStatusLabel();
        this.tmrAluno = new System.Windows.Forms.Timer(this.components);
        this.tsProfissao = new System.Windows.Forms.ToolStrip();
        this.toolStripDropDownButton1 = new
System.Windows.Forms.ToolStripDropDownButton();
        this.tsmiTodos = new System.Windows.Forms.ToolStripMenuItem();
        this.toolStripSeparator2 = new System.Windows.Forms.ToolStripSeparator();
        this.tsbNovaFic = new System.Windows.Forms.ToolStripButton();
        this.tsbAtualizar = new System.Windows.Forms.ToolStripButton();
        this.tsbApagaFic = new System.Windows.Forms.ToolStripButton();
        this.toolStripSeparator3 = new System.Windows.Forms.ToolStripSeparator();
        this.toolStripDropDownButton2 = new
System.Windows.Forms.ToolStripDropDownButton();
        this.toolStripButtons3 = new System.Windows.Forms.ToolStripButton();
        this.toolStripSeparator4 = new System.Windows.Forms.ToolStripSeparator();
        this.toolStripButtons4 = new System.Windows.Forms.ToolStripButton();
        this.toolStripSeparator1 = new System.Windows.Forms.ToolStripSeparator();
        this.tsbUmBaixo = new System.Windows.Forms.ToolStripButton();
        this.tsbUltimo = new System.Windows.Forms.ToolStripButton();
        this.tsbUmCima = new System.Windows.Forms.ToolStripButton();
        this.tsbPrimeiro = new System.Windows.Forms.ToolStripButton();
        this.toolStripSeparator5 = new System.Windows.Forms.ToolStripSeparator();
        this.rtbObs = new System.Windows.Forms.RichTextBox();
        this.label62 = new System.Windows.Forms.Label();
        this.txtDesconto = new System.Windows.Forms.TextBox();
        this.mtbDatEmi = new System.Windows.Forms.MaskedTextBox();
        this.mtbDatNas = new System.Windows.Forms.MaskedTextBox();
        this.mtbDatIns = new System.Windows.Forms.MaskedTextBox();
        this.btnProDes = new System.Windows.Forms.Button();
        this.btnProCod = new System.Windows.Forms.Button();
        this.button1 = new System.Windows.Forms.Button();
        this.cbbSexo = new System.Windows.Forms.ComboBox();
        this.tbcFicAlu.SuspendLayout();
        this.tpAluno.SuspendLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pbFoto1)).BeginInit();
        this.gbEncEdu.SuspendLayout();
        this.gbFinanceiro.SuspendLayout();
        this.gbSexo.SuspendLayout();
        this.gbPesAutLevCri.SuspendLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pcbFoto)).BeginInit();
        this.tpFicCli.SuspendLayout();
        this.tpParente.SuspendLayout();
        this.gbMae.SuspendLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pictureBox3)).BeginInit();
        this.gbPai.SuspendLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pictureBox2)).BeginInit();
        this.tpFinanceiro.SuspendLayout();
        this.tpObservacoes.SuspendLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).BeginInit();
        this.ssAluno.SuspendLayout();
        this.tsProfissao.SuspendLayout();
        this.SuspendLayout();
        //
        // btnGravar
    
```

```
//
this.btnGravar.Location = new System.Drawing.Point(554, 500);
this.btnGravar.Name = "btnGravar";
this.btnGravar.Size = new System.Drawing.Size(75, 23);
this.btnGravar.TabIndex = 7;
this.btnGravar.Text = "&Gravar";
this.btnGravar.UseVisualStyleBackColor = true;
this.btnGravar.Click += new System.EventHandler(this.btnGravar_Click);
//
// btnCancelar
//
this.btnCancelar.Location = new System.Drawing.Point(645, 500);
this.btnCancelar.Name = "btnCancelar";
this.btnCancelar.Size = new System.Drawing.Size(75, 23);
this.btnCancelar.TabIndex = 8;
this.btnCancelar.Text = "&Cancelar";
this.btnCancelar.UseVisualStyleBackColor = true;
this.btnCancelar.Click += new System.EventHandler(this.btnCancelar_Click);
//
// ofdFoto
//
this.ofdFoto.FileName = "openFileDialog1";
//
// tbcFicAlu
//
this.tbcFicAlu.Controls.Add(this.tpAluno);
this.tbcFicAlu.Controls.Add(this.tpFicCli);
this.tbcFicAlu.Controls.Add(this.tpParente);
this.tbcFicAlu.Controls.Add(this.tpFinanceiro);
this.tbcFicAlu.Controls.Add(this.tpObservacoes);
this.tbcFicAlu.Location = new System.Drawing.Point(0, 28);
this.tbcFicAlu.Name = "tbcFicAlu";
this.tbcFicAlu.SelectedIndex = 0;
this.tbcFicAlu.Size = new System.Drawing.Size(734, 466);
this.tbcFicAlu.TabIndex = 13;
//
// tpAluno
//
this.tpAluno.Controls.Add(this.button1);
this.tpAluno.Controls.Add(this.btnProDes);
this.tpAluno.Controls.Add(this.btnProCod);
this.tpAluno.Controls.Add(this.mtbDatIns);
this.tpAluno.Controls.Add(this.mtbDatNas);
this.tpAluno.Controls.Add(this.mtbDatEmi);
this.tpAluno.Controls.Add(this.pbFoto1);
this.tpAluno.Controls.Add(this.gbEncEdu);
this.tpAluno.Controls.Add(this.label58);
this.tpAluno.Controls.Add(this.label57);
this.tpAluno.Controls.Add(this.cbbTurma);
this.tpAluno.Controls.Add(this.gbFinanceiro);
this.tpAluno.Controls.Add(this.gbSexo);
this.tpAluno.Controls.Add(this.gbPesAutLevCri);
this.tpAluno.Controls.Add(this.lblAnos);
this.tpAluno.Controls.Add(this.mtbNumBen);
this.tpAluno.Controls.Add(this.label25);
this.tpAluno.Controls.Add(this.mtbContribuinte);
this.tpAluno.Controls.Add(this.label24);
```

```

        this.tpAluno.Controls.Add(this.label23);
        this.tpAluno.Controls.Add(this.label22);
        this.tpAluno.Controls.Add(this.txtBILocEmi);
        this.tpAluno.Controls.Add(this.mtbBI);
        this.tpAluno.Controls.Add(this.label21);
        this.tpAluno.Controls.Add(this.label20);
        this.tpAluno.Controls.Add(this.mtbTelemovel);
        this.tpAluno.Controls.Add(this.label19);
        this.tpAluno.Controls.Add(this.label18);
        this.tpAluno.Controls.Add(this.mtbTelefone);
        this.tpAluno.Controls.Add(this.txtNaturalidade);
        this.tpAluno.Controls.Add(this.label17);
        this.tpAluno.Controls.Add(this.label18);
        this.tpAluno.Controls.Add(this.cbbNacionalidade);
        this.tpAluno.Controls.Add(this.label7);
        this.tpAluno.Controls.Add(this.mtbCodPos);
        this.tpAluno.Controls.Add(this.txtLocalidade);
        this.tpAluno.Controls.Add(this.label6);
        this.tpAluno.Controls.Add(this.txtMorada);
        this.tpAluno.Controls.Add(this.label5);
        this.tpAluno.Controls.Add(this.label4);
        this.tpAluno.Controls.Add(this.txtAno);
        this.tpAluno.Controls.Add(this.txtApelido);
        this.tpAluno.Controls.Add(this.txtNome);
        this.tpAluno.Controls.Add(this.label3);
        this.tpAluno.Controls.Add(this.label2);
        this.tpAluno.Controls.Add(this.txtNALuno);
        this.tpAluno.Controls.Add(this.label1);
        this.tpAluno.Controls.Add(this.pcbFoto);
        this.tpAluno.Location = new System.Drawing.Point(4, 22);
        this.tpAluno.Name = "tpAluno";
        this.tpAluno.Padding = new System.Windows.Forms.Padding(3);
        this.tpAluno.Size = new System.Drawing.Size(726, 440);
        this.tpAluno.TabIndex = 0;
        this.tpAluno.Text = "Aluno";
        this.tpAluno.UseVisualStyleBackColor = true;
        //
        // pbFoto1
        //
        this.pbFoto1.BorderStyle = System.Windows.Forms.BorderStyle.Fixed3D;
        this.pbFoto1.ErrorImage = null;
        this.pbFoto1.InitialImage = null;
        this.pbFoto1.Location = new System.Drawing.Point(578, 11);
        this.pbFoto1.Name = "pbFoto1";
        this.pbFoto1.Size = new System.Drawing.Size(120, 148);
        this.pbFoto1.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.StretchImage;
        this.pbFoto1.TabIndex = 64;
        this.pbFoto1.TabStop = false;
        //
        // gbEncEdu
        //
        this.gbEncEdu.Controls.Add(this.cbbEdu);
        this.gbEncEdu.Controls.Add(this.checkBox4);
        this.gbEncEdu.Controls.Add(this.checkBox5);
        this.gbEncEdu.Controls.Add(this.checkBox6);
        this.gbEncEdu.Location = new System.Drawing.Point(432, 166);

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```
this.gbEncEdu.Name = "gbEncEdu";
this.gbEncEdu.Size = new System.Drawing.Size(284, 71);
this.gbEncEdu.TabIndex = 63;
this.gbEncEdu.TabStop = false;
this.gbEncEdu.Text = "Encarregado de Educação";
//
// cbbEdu
//
this.cbbEdu.FormattingEnabled = true;
this.cbbEdu.Location = new System.Drawing.Point(14, 43);
this.cbbEdu.Name = "cbbEdu";
this.cbbEdu.Size = new System.Drawing.Size(252, 21);
this.cbbEdu.TabIndex = 7;
//
// checkBox4
//
this.checkBox4.AutoSize = true;
this.checkBox4.ForeColor = System.Drawing.Color.Black;
this.checkBox4.Location = new System.Drawing.Point(159, 23);
this.checkBox4.Name = "checkBox4";
this.checkBox4.Size = new System.Drawing.Size(107, 17);
this.checkBox4.TabIndex = 5;
this.checkBox4.Text = "Outros (Escolher)";
this.checkBox4.UseVisualStyleBackColor = true;
//
// checkBox5
//
this.checkBox5.AutoSize = true;
this.checkBox5.ForeColor = System.Drawing.Color.Black;
this.checkBox5.Location = new System.Drawing.Point(92, 23);
this.checkBox5.Name = "checkBox5";
this.checkBox5.Size = new System.Drawing.Size(47, 17);
this.checkBox5.TabIndex = 4;
this.checkBox5.Text = "Mãe";
this.checkBox5.UseVisualStyleBackColor = true;
//
// checkBox6
//
this.checkBox6.AutoSize = true;
this.checkBox6.ForeColor = System.Drawing.Color.Black;
this.checkBox6.Location = new System.Drawing.Point(17, 23);
this.checkBox6.Name = "checkBox6";
this.checkBox6.Size = new System.Drawing.Size(41, 17);
this.checkBox6.TabIndex = 3;
this.checkBox6.Text = "Pai";
this.checkBox6.UseVisualStyleBackColor = true;
//
// label58
//
this.label58.AutoSize = true;
this.label58.Location = new System.Drawing.Point(38, 327);
this.label58.Name = "label58";
this.label58.Size = new System.Drawing.Size(74, 13);
this.label58.TabIndex = 62;
this.label58.Text = "Data Incrrição:";
//
// label57
```

```
//
this.label57.AutoSize = true;
this.label57.Location = new System.Drawing.Point(73, 303);
this.label57.Name = "label57";
this.label57.Size = new System.Drawing.Size(40, 13);
this.label57.TabIndex = 61;
this.label57.Text = "Turma:";
//
// cbbTurma
//
this.cbbTurma.FormattingEnabled = true;
this.cbbTurma.Location = new System.Drawing.Point(114, 300);
this.cbbTurma.Name = "cbbTurma";
this.cbbTurma.Size = new System.Drawing.Size(105, 21);
this.cbbTurma.TabIndex = 59;
//
// gbFinanceiro
//
this.gbFinanceiro.Controls.Add(this.cbbPagMenOut);
this.gbFinanceiro.Controls.Add(this.checkBox3);
this.gbFinanceiro.Controls.Add(this.checkBox1);
this.gbFinanceiro.Controls.Add(this.label32);
this.gbFinanceiro.Controls.Add(this.checkBox2);
this.gbFinanceiro.Controls.Add(this.txtConCor);
this.gbFinanceiro.Controls.Add(this.lblConCor);
this.gbFinanceiro.Location = new System.Drawing.Point(24, 350);
this.gbFinanceiro.Name = "gbFinanceiro";
this.gbFinanceiro.Size = new System.Drawing.Size(392, 84);
this.gbFinanceiro.TabIndex = 58;
this.gbFinanceiro.TabStop = false;
this.gbFinanceiro.Text = "Financeiro";
//
// cbbPagMenOut
//
this.cbbPagMenOut.FormattingEnabled = true;
this.cbbPagMenOut.Location = new System.Drawing.Point(13, 57);
this.cbbPagMenOut.Name = "cbbPagMenOut";
this.cbbPagMenOut.Size = new System.Drawing.Size(358, 21);
this.cbbPagMenOut.TabIndex = 6;
//
// checkBox3
//
this.checkBox3.AutoSize = true;
this.checkBox3.ForeColor = System.Drawing.Color.Black;
this.checkBox3.Location = new System.Drawing.Point(264, 38);
this.checkBox3.Name = "checkBox3";
this.checkBox3.Size = new System.Drawing.Size(107, 17);
this.checkBox3.TabIndex = 4;
this.checkBox3.Text = "Outros (Escolher)";
this.checkBox3.UseVisualStyleBackColor = true;
//
// checkBox1
//
this.checkBox1.AutoSize = true;
this.checkBox1.ForeColor = System.Drawing.Color.Black;
this.checkBox1.Location = new System.Drawing.Point(216, 38);
this.checkBox1.Name = "checkBox1";
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```
this.checkBox1.Size = new System.Drawing.Size(47, 17);
this.checkBox1.TabIndex = 5;
this.checkBox1.Text = "Mãe";
this.checkBox1.UseVisualStyleBackColor = true;
//
// label32
//
this.label32.AutoSize = true;
this.label32.Location = new System.Drawing.Point(11, 38);
this.label32.Name = "label32";
this.label32.Size = new System.Drawing.Size(163, 13);
this.label32.TabIndex = 3;
this.label32.Text = "Pagamentos são efectuados por:";
//
// checkBox2
//
this.checkBox2.AutoSize = true;
this.checkBox2.ForeColor = System.Drawing.Color.Black;
this.checkBox2.Location = new System.Drawing.Point(175, 38);
this.checkBox2.Name = "checkBox2";
this.checkBox2.Size = new System.Drawing.Size(41, 17);
this.checkBox2.TabIndex = 4;
this.checkBox2.Text = "Pai";
this.checkBox2.UseVisualStyleBackColor = true;
//
// txtConCor
//
this.txtConCor.Enabled = false;
this.txtConCor.Location = new System.Drawing.Point(90, 14);
this.txtConCor.Name = "txtConCor";
this.txtConCor.Size = new System.Drawing.Size(100, 20);
this.txtConCor.TabIndex = 2;
//
// lblConCor
//
this.lblConCor.AutoSize = true;
this.lblConCor.Location = new System.Drawing.Point(8, 17);
this.lblConCor.Name = "lblConCor";
this.lblConCor.Size = new System.Drawing.Size(81, 13);
this.lblConCor.TabIndex = 1;
this.lblConCor.Text = "Conta Corrente:";
//
// gbSexo
//
this.gbSexo.Controls.Add(this.cbbSexo);
this.gbSexo.Location = new System.Drawing.Point(234, 301);
this.gbSexo.Name = "gbSexo";
this.gbSexo.Size = new System.Drawing.Size(162, 48);
this.gbSexo.TabIndex = 57;
this.gbSexo.TabStop = false;
this.gbSexo.Text = "Sexo";
//
// gbPesAutLevCri
//
this.gbPesAutLevCri.Controls.Add(this.listBox1);
this.gbPesAutLevCri.Controls.Add(this.ckbOutos);
this.gbPesAutLevCri.Controls.Add(this.ckbMae);
```

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this.gbPesAutLevCri.Controls.Add(this.ckbPai);
this.gbPesAutLevCri.ForeColor = System.Drawing.Color.Red;
this.gbPesAutLevCri.Location = new System.Drawing.Point(432, 243);
this.gbPesAutLevCri.Name = "gbPesAutLevCri";
this.gbPesAutLevCri.Size = new System.Drawing.Size(243, 187);
this.gbPesAutLevCri.TabIndex = 56;
this.gbPesAutLevCri.TabStop = false;
this.gbPesAutLevCri.Text = "Pessoas Autorizadas a Levantar a Criança";
//
// listBox1
//
this.listBox1.FormattingEnabled = true;
this.listBox1.Location = new System.Drawing.Point(8, 52);
this.listBox1.Name = "listBox1";
this.listBox1.Size = new System.Drawing.Size(227, 121);
this.listBox1.TabIndex = 3;
//
// ckbOutos
//
this.ckbOutos.AutoSize = true;
this.ckbOutos.ForeColor = System.Drawing.Color.Black;
this.ckbOutos.Location = new System.Drawing.Point(169, 22);
this.ckbOutos.Name = "ckbOutos";
this.ckbOutos.Size = new System.Drawing.Size(57, 17);
this.ckbOutos.TabIndex = 2;
this.ckbOutos.Text = "Outros";
this.ckbOutos.UseVisualStyleBackColor = true;
//
// ckbMae
//
this.ckbMae.AutoSize = true;
this.ckbMae.ForeColor = System.Drawing.Color.Black;
this.ckbMae.Location = new System.Drawing.Point(93, 22);
this.ckbMae.Name = "ckbMae";
this.ckbMae.Size = new System.Drawing.Size(47, 17);
this.ckbMae.TabIndex = 1;
this.ckbMae.Text = "Mãe";
this.ckbMae.UseVisualStyleBackColor = true;
//
// ckbPai
//
this.ckbPai.AutoSize = true;
this.ckbPai.ForeColor = System.Drawing.Color.Black;
this.ckbPai.Location = new System.Drawing.Point(18, 22);
this.ckbPai.Name = "ckbPai";
this.ckbPai.Size = new System.Drawing.Size(41, 17);
this.ckbPai.TabIndex = 0;
this.ckbPai.Text = "Pai";
this.ckbPai.UseVisualStyleBackColor = true;
//
// lblAnos
//
this.lblAnos.AutoSize = true;
this.lblAnos.Location = new System.Drawing.Point(207, 283);
this.lblAnos.Name = "lblAnos";
this.lblAnos.Size = new System.Drawing.Size(0, 13);
this.lblAnos.TabIndex = 55;

```



```
//
// mtbNumBen
//
this.mtbNumBen.Location = new System.Drawing.Point(306, 255);
this.mtbNumBen.Mask = "000000000";
this.mtbNumBen.Name = "mtbNumBen";
this.mtbNumBen.Size = new System.Drawing.Size(62, 20);
this.mtbNumBen.TabIndex = 50;
//
// label25
//
this.label25.AutoSize = true;
this.label25.Location = new System.Drawing.Point(222, 258);
this.label25.Name = "label25";
this.label25.Size = new System.Drawing.Size(83, 13);
this.label25.TabIndex = 49;
this.label25.Text = "N.º Beneficiário:";
//
// mtbContribuinte
//
this.mtbContribuinte.Location = new System.Drawing.Point(306, 277);
this.mtbContribuinte.Mask = "000000000";
this.mtbContribuinte.Name = "mtbContribuinte";
this.mtbContribuinte.Size = new System.Drawing.Size(62, 20);
this.mtbContribuinte.TabIndex = 48;
//
// label24
//
this.label24.AutoSize = true;
this.label24.Location = new System.Drawing.Point(221, 280);
this.label24.Name = "label24";
this.label24.Size = new System.Drawing.Size(84, 13);
this.label24.TabIndex = 47;
this.label24.Text = "N.º Contribuinte:";
//
// label23
//
this.label23.AutoSize = true;
this.label23.Location = new System.Drawing.Point(184, 233);
this.label23.Name = "label23";
this.label23.Size = new System.Drawing.Size(75, 13);
this.label23.TabIndex = 45;
this.label23.Text = "Data Emissão:";
//
// label22
//
this.label22.AutoSize = true;
this.label22.Location = new System.Drawing.Point(18, 258);
this.label22.Name = "label22";
this.label22.Size = new System.Drawing.Size(93, 13);
this.label22.TabIndex = 43;
this.label22.Text = "Local de Emissão:";
//
// txtBILocEmi
//
this.txtBILocEmi.Location = new System.Drawing.Point(114, 255);
this.txtBILocEmi.Name = "txtBILocEmi";
```



```

this.txtBILocEmi.Size = new System.Drawing.Size(102, 20);
this.txtBILocEmi.TabIndex = 42;
//
// mtbBI
//
this.mtbBI.Location = new System.Drawing.Point(114, 230);
this.mtbBI.Mask = "00000000";
this.mtbBI.Name = "mtbBI";
this.mtbBI.Size = new System.Drawing.Size(64, 20);
this.mtbBI.TabIndex = 41;
//
// label21
//
this.label21.AutoSize = true;
this.label21.Location = new System.Drawing.Point(93, 233);
this.label21.Name = "label21";
this.label21.Size = new System.Drawing.Size(20, 13);
this.label21.TabIndex = 40;
this.label21.Text = "BI:";
//
// label20
//
this.label20.AutoSize = true;
this.label20.Location = new System.Drawing.Point(21, 281);
this.label20.Name = "label20";
this.label20.Size = new System.Drawing.Size(92, 13);
this.label20.TabIndex = 38;
this.label20.Text = "Data Nascimento:";
//
// mtbTelemovel
//
this.mtbTelemovel.Location = new System.Drawing.Point(266, 206);
this.mtbTelemovel.Mask = "(000) 000000000";
this.mtbTelemovel.Name = "mtbTelemovel";
this.mtbTelemovel.Size = new System.Drawing.Size(87, 20);
this.mtbTelemovel.TabIndex = 36;
//
// label19
//
this.label19.AutoSize = true;
this.label19.Location = new System.Drawing.Point(209, 209);
this.label19.Name = "label19";
this.label19.Size = new System.Drawing.Size(56, 13);
this.label19.TabIndex = 35;
this.label19.Text = "Telemóvel";
//
// label18
//
this.label18.AutoSize = true;
this.label18.Location = new System.Drawing.Point(61, 209);
this.label18.Name = "label18";
this.label18.Size = new System.Drawing.Size(52, 13);
this.label18.TabIndex = 33;
this.label18.Text = "Telefone:";
//
// mtbTelefone
//

```

```
this.mtbTelefone.Location = new System.Drawing.Point(114, 206);
this.mtbTelefone.Mask = "(000) 000000000";
this.mtbTelefone.Name = "mtbTelefone";
this.mtbTelefone.Size = new System.Drawing.Size(87, 20);
this.mtbTelefone.TabIndex = 32;
//
// txtNaturalidade
//
this.txtNaturalidade.Location = new System.Drawing.Point(114, 182);
this.txtNaturalidade.Name = "txtNaturalidade";
this.txtNaturalidade.Size = new System.Drawing.Size(302, 20);
this.txtNaturalidade.TabIndex = 31;
//
// label17
//
this.label17.AutoSize = true;
this.label17.Location = new System.Drawing.Point(43, 185);
this.label17.Name = "label17";
this.label17.Size = new System.Drawing.Size(70, 13);
this.label17.TabIndex = 30;
this.label17.Text = "Naturalidade:";
//
// label8
//
this.label8.AutoSize = true;
this.label8.Location = new System.Drawing.Point(35, 162);
this.label8.Name = "label8";
this.label8.Size = new System.Drawing.Size(78, 13);
this.label8.TabIndex = 29;
this.label8.Text = "Nacionalidade:";
//
// cbbNacionalidade
//
this.cbbNacionalidade.FormattingEnabled = true;
this.cbbNacionalidade.Location = new System.Drawing.Point(114, 158);
this.cbbNacionalidade.Name = "cbbNacionalidade";
this.cbbNacionalidade.Size = new System.Drawing.Size(121, 21);
this.cbbNacionalidade.TabIndex = 28;
//
// label7
//
this.label7.AutoSize = true;
this.label7.Location = new System.Drawing.Point(38, 136);
this.label7.Name = "label7";
this.label7.Size = new System.Drawing.Size(75, 13);
this.label7.TabIndex = 27;
this.label7.Text = "Código Postal:";
//
// mtbCodPos
//
this.mtbCodPos.Location = new System.Drawing.Point(114, 133);
this.mtbCodPos.Mask = "0000-000";
this.mtbCodPos.Name = "mtbCodPos";
this.mtbCodPos.Size = new System.Drawing.Size(57, 20);
this.mtbCodPos.TabIndex = 26;
//
// txtLocalidade
```

```
//
this.txtLocalidade.Location = new System.Drawing.Point(114, 108);
this.txtLocalidade.Name = "txtLocalidade";
this.txtLocalidade.Size = new System.Drawing.Size(302, 20);
this.txtLocalidade.TabIndex = 25;
//
// label6
//
this.label6.AutoSize = true;
this.label6.Location = new System.Drawing.Point(51, 111);
this.label6.Name = "label6";
this.label6.Size = new System.Drawing.Size(62, 13);
this.label6.TabIndex = 24;
this.label6.Text = "Localidade:";
//
// txtMorada
//
this.txtMorada.Location = new System.Drawing.Point(114, 83);
this.txtMorada.Name = "txtMorada";
this.txtMorada.Size = new System.Drawing.Size(302, 20);
this.txtMorada.TabIndex = 23;
//
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(67, 87);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(46, 13);
this.label5.TabIndex = 22;
this.label5.Text = "Morada:";
//
// label4
//
this.label4.AutoSize = true;
this.label4.Location = new System.Drawing.Point(257, 14);
this.label4.Name = "label4";
this.label4.Size = new System.Drawing.Size(29, 13);
this.label4.TabIndex = 21;
this.label4.Text = "Ano:";
//
// txtAno
//
this.txtAno.Location = new System.Drawing.Point(288, 11);
this.txtAno.Name = "txtAno";
this.txtAno.Size = new System.Drawing.Size(102, 20);
this.txtAno.TabIndex = 20;
//
// txtApelido
//
this.txtApelido.Location = new System.Drawing.Point(114, 58);
this.txtApelido.Name = "txtApelido";
this.txtApelido.Size = new System.Drawing.Size(302, 20);
this.txtApelido.TabIndex = 19;
//
// txtNome
//
this.txtNome.Location = new System.Drawing.Point(114, 34);
```

```

this.txtNome.Name = "txtNome";
this.txtNome.Size = new System.Drawing.Size(275, 20);
this.txtNome.TabIndex = 18;
//
// label3
//
this.label3.AutoSize = true;
this.label3.Location = new System.Drawing.Point(65, 14);
this.label3.Name = "label3";
this.label3.Size = new System.Drawing.Size(47, 13);
this.label3.TabIndex = 17;
this.label3.Text = "Número:";
//
// label2
//
this.label2.AutoSize = true;
this.label2.Location = new System.Drawing.Point(68, 61);
this.label2.Name = "label2";
this.label2.Size = new System.Drawing.Size(45, 13);
this.label2.TabIndex = 16;
this.label2.Text = "Apelido:";
//
// txtNALuno
//
this.txtNALuno.Location = new System.Drawing.Point(114, 11);
this.txtNALuno.Name = "txtNALuno";
this.txtNALuno.Size = new System.Drawing.Size(102, 20);
this.txtNALuno.TabIndex = 15;
//
// label1
//
this.label1.AutoSize = true;
this.label1.Location = new System.Drawing.Point(75, 37);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(38, 13);
this.label1.TabIndex = 14;
this.label1.Text = "Nome:";
//
// pcbFoto
//
this.pcbFoto.BorderStyle = System.Windows.Forms.BorderStyle.Fixed3D;
this.pcbFoto.ErrorImage = null;
this.pcbFoto.InitialImage = null;
this.pcbFoto.Location = new System.Drawing.Point(433, 12);
this.pcbFoto.Name = "pcbFoto";
this.pcbFoto.Size = new System.Drawing.Size(120, 148);
this.pcbFoto.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.StretchImage;
this.pcbFoto.TabIndex = 13;
this.pcbFoto.TabStop = false;
//
// tpFicCli
//
this.tpFicCli.Controls.Add(this.label59);
this.tpFicCli.Controls.Add(this.textBox16);
this.tpFicCli.Controls.Add(this.listBox2);
this.tpFicCli.Controls.Add(this.checkBox7);

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```
this.tpFicCli.Controls.Add(this.textBox17);
this.tpFicCli.Controls.Add(this.label60);
this.tpFicCli.Controls.Add(this.textBox18);
this.tpFicCli.Controls.Add(this.label61);
this.tpFicCli.Location = new System.Drawing.Point(4, 22);
this.tpFicCli.Name = "tpFicCli";
this.tpFicCli.Size = new System.Drawing.Size(726, 440);
this.tpFicCli.TabIndex = 4;
this.tpFicCli.Text = "Ficha Clinica";
this.tpFicCli.UseVisualStyleBackColor = true;
//
// label59
//
this.label59.AutoSize = true;
this.label59.Location = new System.Drawing.Point(8, 86);
this.label59.Name = "label59";
this.label59.Size = new System.Drawing.Size(73, 13);
this.label59.TabIndex = 31;
this.label59.Text = "Observações:";
//
// textBox16
//
this.textBox16.Location = new System.Drawing.Point(84, 61);
this.textBox16.Name = "textBox16";
this.textBox16.Size = new System.Drawing.Size(632, 20);
this.textBox16.TabIndex = 30;
//
// listBox2
//
this.listBox2.FormattingEnabled = true;
this.listBox2.Location = new System.Drawing.Point(11, 103);
this.listBox2.Name = "listBox2";
this.listBox2.Size = new System.Drawing.Size(705, 316);
this.listBox2.TabIndex = 29;
//
// checkBox7
//
this.checkBox7.AutoSize = true;
this.checkBox7.Location = new System.Drawing.Point(198, 13);
this.checkBox7.Name = "checkBox7";
this.checkBox7.Size = new System.Drawing.Size(98, 17);
this.checkBox7.TabIndex = 28;
this.checkBox7.Text = "Vacinas em dia";
this.checkBox7.UseVisualStyleBackColor = true;
//
// textBox17
//
this.textBox17.Location = new System.Drawing.Point(84, 37);
this.textBox17.Name = "textBox17";
this.textBox17.Size = new System.Drawing.Size(632, 20);
this.textBox17.TabIndex = 25;
//
// label60
//
this.label60.AutoSize = true;
this.label60.Location = new System.Drawing.Point(7, 15);
this.label60.Name = "label60";
```

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this.label60.Size = new System.Drawing.Size(76, 13);
this.label60.TabIndex = 24;
this.label60.Text = "Número Ficha:";
//
// textBox18
//
this.textBox18.Location = new System.Drawing.Point(84, 11);
this.textBox18.Name = "textBox18";
this.textBox18.Size = new System.Drawing.Size(102, 20);
this.textBox18.TabIndex = 23;
//
// label61
//
this.label61.AutoSize = true;
this.label61.Location = new System.Drawing.Point(29, 40);
this.label61.Name = "label61";
this.label61.Size = new System.Drawing.Size(53, 13);
this.label61.TabIndex = 22;
this.label61.Text = "Doenças:";
//
// tpParente
//
this.tpParente.Controls.Add(this.gbMae);
this.tpParente.Controls.Add(this.gbPai);
this.tpParente.Location = new System.Drawing.Point(4, 22);
this.tpParente.Name = "tpParente";
this.tpParente.Padding = new System.Windows.Forms.Padding(3);
this.tpParente.Size = new System.Drawing.Size(726, 440);
this.tpParente.TabIndex = 1;
this.tpParente.Text = "Parentes";
this.tpParente.UseVisualStyleBackColor = true;
//
// gbMae
//
this.gbMae.Controls.Add(this.maskedTextBox8);
this.gbMae.Controls.Add(this.textBox10);
this.gbMae.Controls.Add(this.maskedTextBox9);
this.gbMae.Controls.Add(this.label42);
this.gbMae.Controls.Add(this.label43);
this.gbMae.Controls.Add(this.maskedTextBox10);
this.gbMae.Controls.Add(this.label44);
this.gbMae.Controls.Add(this.label45);
this.gbMae.Controls.Add(this.dateTimePicker3);
this.gbMae.Controls.Add(this.dateTimePicker4);
this.gbMae.Controls.Add(this.label46);
this.gbMae.Controls.Add(this.label47);
this.gbMae.Controls.Add(this.maskedTextBox11);
this.gbMae.Controls.Add(this.label48);
this.gbMae.Controls.Add(this.label49);
this.gbMae.Controls.Add(this.maskedTextBox12);
this.gbMae.Controls.Add(this.textBox11);
this.gbMae.Controls.Add(this.label50);
this.gbMae.Controls.Add(this.label51);
this.gbMae.Controls.Add(this.comboBox3);
this.gbMae.Controls.Add(this.maskedTextBox13);
this.gbMae.Controls.Add(this.textBox12);
this.gbMae.Controls.Add(this.label52);

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```
this.gbMae.Controls.Add(this.textBox13);
this.gbMae.Controls.Add(this.label53);
this.gbMae.Controls.Add(this.label54);
this.gbMae.Controls.Add(this.label55);
this.gbMae.Controls.Add(this.label56);
this.gbMae.Controls.Add(this.textBox14);
this.gbMae.Controls.Add(this.textBox15);
this.gbMae.Controls.Add(this.pictureBox3);
this.gbMae.Location = new System.Drawing.Point(8, 221);
this.gbMae.Name = "gbMae";
this.gbMae.Size = new System.Drawing.Size(642, 213);
this.gbMae.TabIndex = 71;
this.gbMae.TabStop = false;
this.gbMae.Text = "Mãe";
//
// maskedTextBox8
//
this.maskedTextBox8.Location = new System.Drawing.Point(562, 183);
this.maskedTextBox8.Mask = "000000000";
this.maskedTextBox8.Name = "maskedTextBox8";
this.maskedTextBox8.Size = new System.Drawing.Size(62, 20);
this.maskedTextBox8.TabIndex = 70;
//
// textBox10
//
this.textBox10.Location = new System.Drawing.Point(406, 159);
this.textBox10.Name = "textBox10";
this.textBox10.Size = new System.Drawing.Size(102, 20);
this.textBox10.TabIndex = 63;
//
// maskedTextBox9
//
this.maskedTextBox9.Location = new System.Drawing.Point(84, 159);
this.maskedTextBox9.Mask = "00000000";
this.maskedTextBox9.Name = "maskedTextBox9";
this.maskedTextBox9.Size = new System.Drawing.Size(64, 20);
this.maskedTextBox9.TabIndex = 62;
//
// label42
//
this.label42.AutoSize = true;
this.label42.Location = new System.Drawing.Point(475, 186);
this.label42.Name = "label42";
this.label42.Size = new System.Drawing.Size(87, 13);
this.label42.TabIndex = 69;
this.label42.Text = "N.º Benefeciário:";
//
// label43
//
this.label43.AutoSize = true;
this.label43.Location = new System.Drawing.Point(312, 162);
this.label43.Name = "label43";
this.label43.Size = new System.Drawing.Size(93, 13);
this.label43.TabIndex = 64;
this.label43.Text = "Local de Emissão:";
//
// maskedTextBox10
```

```

//
this.maskedTextBox10.Location = new System.Drawing.Point(412, 182);
this.maskedTextBox10.Mask = "000000000";
this.maskedTextBox10.Name = "maskedTextBox10";
this.maskedTextBox10.Size = new System.Drawing.Size(62, 20);
this.maskedTextBox10.TabIndex = 68;
//
// label44
//
this.label44.AutoSize = true;
this.label44.Location = new System.Drawing.Point(64, 162);
this.label44.Name = "label44";
this.label44.Size = new System.Drawing.Size(20, 13);
this.label44.TabIndex = 61;
this.label44.Text = "BI:";
//
// label45
//
this.label45.AutoSize = true;
this.label45.Location = new System.Drawing.Point(328, 185);
this.label45.Name = "label45";
this.label45.Size = new System.Drawing.Size(84, 13);
this.label45.TabIndex = 67;
this.label45.Text = "N.º Contribuinte:";
//
// dateTimePicker3
//
this.dateTimePicker3.Format =
System.Windows.Forms.DateTimePickerFormat.Short;
this.dateTimePicker3.Location = new System.Drawing.Point(229, 159);
this.dateTimePicker3.Name = "dateTimePicker3";
this.dateTimePicker3.Size = new System.Drawing.Size(82, 20);
this.dateTimePicker3.TabIndex = 66;
//
// dateTimePicker4
//
this.dateTimePicker4.Format =
System.Windows.Forms.DateTimePickerFormat.Short;
this.dateTimePicker4.Location = new System.Drawing.Point(307, 111);
this.dateTimePicker4.Name = "dateTimePicker4";
this.dateTimePicker4.Size = new System.Drawing.Size(85, 20);
this.dateTimePicker4.TabIndex = 60;
//
// label46
//
this.label46.AutoSize = true;
this.label46.Location = new System.Drawing.Point(152, 162);
this.label46.Name = "label46";
this.label46.Size = new System.Drawing.Size(75, 13);
this.label46.TabIndex = 65;
this.label46.Text = "Data Emissão:";
//
// label47
//
this.label47.AutoSize = true;
this.label47.Location = new System.Drawing.Point(214, 114);
this.label47.Name = "label47";

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```
this.label47.Size = new System.Drawing.Size(92, 13);
this.label47.TabIndex = 59;
this.label47.Text = "Data Nascimento:";
//
// maskedTextBox11
//
this.maskedTextBox11.Location = new System.Drawing.Point(235, 182);
this.maskedTextBox11.Mask = "(000) 000000000";
this.maskedTextBox11.Name = "maskedTextBox11";
this.maskedTextBox11.Size = new System.Drawing.Size(87, 20);
this.maskedTextBox11.TabIndex = 58;
//
// label48
//
this.label48.AutoSize = true;
this.label48.Location = new System.Drawing.Point(176, 185);
this.label48.Name = "label48";
this.label48.Size = new System.Drawing.Size(59, 13);
this.label48.TabIndex = 57;
this.label48.Text = "Telemóvel:";
//
// label49
//
this.label49.AutoSize = true;
this.label49.Location = new System.Drawing.Point(32, 185);
this.label49.Name = "label49";
this.label49.Size = new System.Drawing.Size(52, 13);
this.label49.TabIndex = 56;
this.label49.Text = "Telefone:";
//
// maskedTextBox12
//
this.maskedTextBox12.Location = new System.Drawing.Point(84, 182);
this.maskedTextBox12.Mask = "(000) 000000000";
this.maskedTextBox12.Name = "maskedTextBox12";
this.maskedTextBox12.Size = new System.Drawing.Size(87, 20);
this.maskedTextBox12.TabIndex = 55;
//
// textBox11
//
this.textBox11.Location = new System.Drawing.Point(84, 136);
this.textBox11.Name = "textBox11";
this.textBox11.Size = new System.Drawing.Size(337, 20);
this.textBox11.TabIndex = 54;
//
// label50
//
this.label50.AutoSize = true;
this.label50.Location = new System.Drawing.Point(14, 139);
this.label50.Name = "label50";
this.label50.Size = new System.Drawing.Size(70, 13);
this.label50.TabIndex = 53;
this.label50.Text = "Naturalidade:";
//
// label51
//
this.label51.AutoSize = true;
```

```
this.label51.Location = new System.Drawing.Point(6, 115);
this.label51.Name = "label51";
this.label51.Size = new System.Drawing.Size(78, 13);
this.label51.TabIndex = 52;
this.label51.Text = "Nacionalidade:";
//
// comboBox3
//
this.comboBox3.FormattingEnabled = true;
this.comboBox3.Location = new System.Drawing.Point(84, 111);
this.comboBox3.Name = "comboBox3";
this.comboBox3.Size = new System.Drawing.Size(121, 21);
this.comboBox3.TabIndex = 51;
//
// maskedTextBox13
//
this.maskedTextBox13.Location = new System.Drawing.Point(84, 86);
this.maskedTextBox13.Mask = "0000-000";
this.maskedTextBox13.Name = "maskedTextBox13";
this.maskedTextBox13.Size = new System.Drawing.Size(57, 20);
this.maskedTextBox13.TabIndex = 29;
//
// textBox12
//
this.textBox12.Location = new System.Drawing.Point(84, 62);
this.textBox12.Name = "textBox12";
this.textBox12.Size = new System.Drawing.Size(334, 20);
this.textBox12.TabIndex = 18;
//
// label52
//
this.label52.AutoSize = true;
this.label52.Location = new System.Drawing.Point(9, 89);
this.label52.Name = "label52";
this.label52.Size = new System.Drawing.Size(75, 13);
this.label52.TabIndex = 27;
this.label52.Text = "Código Postal:";
//
// textBox13
//
this.textBox13.Location = new System.Drawing.Point(213, 86);
this.textBox13.Name = "textBox13";
this.textBox13.Size = new System.Drawing.Size(205, 20);
this.textBox13.TabIndex = 19;
//
// label53
//
this.label53.AutoSize = true;
this.label53.Location = new System.Drawing.Point(151, 89);
this.label53.Name = "label53";
this.label53.Size = new System.Drawing.Size(62, 13);
this.label53.TabIndex = 26;
this.label53.Text = "Localidade:";
//
// label54
//
this.label54.AutoSize = true;
```

```
this.label54.Location = new System.Drawing.Point(38, 65);
this.label54.Name = "label54";
this.label54.Size = new System.Drawing.Size(46, 13);
this.label54.TabIndex = 25;
this.label54.Text = "Morada:";
//
// label55
//
this.label55.AutoSize = true;
this.label55.Location = new System.Drawing.Point(39, 41);
this.label55.Name = "label55";
this.label55.Size = new System.Drawing.Size(45, 13);
this.label55.TabIndex = 24;
this.label55.Text = "Apelido:";
//
// label56
//
this.label56.AutoSize = true;
this.label56.Location = new System.Drawing.Point(46, 17);
this.label56.Name = "label56";
this.label56.Size = new System.Drawing.Size(38, 13);
this.label56.TabIndex = 23;
this.label56.Text = "Nome:";
//
// textBox14
//
this.textBox14.Location = new System.Drawing.Point(84, 38);
this.textBox14.Name = "textBox14";
this.textBox14.Size = new System.Drawing.Size(334, 20);
this.textBox14.TabIndex = 17;
//
// textBox15
//
this.textBox15.Location = new System.Drawing.Point(84, 14);
this.textBox15.Name = "textBox15";
this.textBox15.Size = new System.Drawing.Size(246, 20);
this.textBox15.TabIndex = 16;
//
// pictureBox3
//
this.pictureBox3.BorderStyle = System.Windows.Forms.BorderStyle.Fixed3D;
this.pictureBox3.Location = new System.Drawing.Point(532, 13);
this.pictureBox3.Name = "pictureBox3";
this.pictureBox3.Size = new System.Drawing.Size(100, 131);
this.pictureBox3.TabIndex = 14;
this.pictureBox3.TabStop = false;
//
// gbPai
//
this.gbPai.Controls.Add(this.maskedTextBox3);
this.gbPai.Controls.Add(this.textBox8);
this.gbPai.Controls.Add(this.maskedTextBox5);
this.gbPai.Controls.Add(this.label31);
this.gbPai.Controls.Add(this.label35);
this.gbPai.Controls.Add(this.maskedTextBox4);
this.gbPai.Controls.Add(this.label36);
this.gbPai.Controls.Add(this.label33);
```

```

this.gbPai.Controls.Add(this.dateTimePicker1);
this.gbPai.Controls.Add(this.dateTimePicker2);
this.gbPai.Controls.Add(this.label34);
this.gbPai.Controls.Add(this.label37);
this.gbPai.Controls.Add(this.maskedTextBox6);
this.gbPai.Controls.Add(this.label38);
this.gbPai.Controls.Add(this.label39);
this.gbPai.Controls.Add(this.maskedTextBox7);
this.gbPai.Controls.Add(this.textBox9);
this.gbPai.Controls.Add(this.label40);
this.gbPai.Controls.Add(this.label41);
this.gbPai.Controls.Add(this.comboBox2);
this.gbPai.Controls.Add(this.mtbCodPosPai);
this.gbPai.Controls.Add(this.txtMorPai);
this.gbPai.Controls.Add(this.label30);
this.gbPai.Controls.Add(this.txtLocPai);
this.gbPai.Controls.Add(this.label29);
this.gbPai.Controls.Add(this.label28);
this.gbPai.Controls.Add(this.label27);
this.gbPai.Controls.Add(this.label26);
this.gbPai.Controls.Add(this.txtApePai);
this.gbPai.Controls.Add(this.txtNomPai);
this.gbPai.Controls.Add(this.pictureBox2);
this.gbPai.Location = new System.Drawing.Point(8, 6);
this.gbPai.Name = "gbPai";
this.gbPai.Size = new System.Drawing.Size(642, 213);
this.gbPai.TabIndex = 0;
this.gbPai.TabStop = false;
this.gbPai.Text = "Pai";
//
// maskedTextBox3
//
this.maskedTextBox3.Location = new System.Drawing.Point(562, 183);
this.maskedTextBox3.Mask = "000000000";
this.maskedTextBox3.Name = "maskedTextBox3";
this.maskedTextBox3.Size = new System.Drawing.Size(62, 20);
this.maskedTextBox3.TabIndex = 70;
//
// textBox8
//
this.textBox8.Location = new System.Drawing.Point(406, 159);
this.textBox8.Name = "textBox8";
this.textBox8.Size = new System.Drawing.Size(102, 20);
this.textBox8.TabIndex = 63;
//
// maskedTextBox5
//
this.maskedTextBox5.Location = new System.Drawing.Point(84, 159);
this.maskedTextBox5.Mask = "000000000";
this.maskedTextBox5.Name = "maskedTextBox5";
this.maskedTextBox5.Size = new System.Drawing.Size(64, 20);
this.maskedTextBox5.TabIndex = 62;
//
// label31
//
this.label31.AutoSize = true;
this.label31.Location = new System.Drawing.Point(475, 186);

```

```
this.label31.Name = "label31";
this.label31.Size = new System.Drawing.Size(87, 13);
this.label31.TabIndex = 69;
this.label31.Text = "N.º Benefeciário:";
//
// label35
//
this.label35.AutoSize = true;
this.label35.Location = new System.Drawing.Point(312, 162);
this.label35.Name = "label35";
this.label35.Size = new System.Drawing.Size(93, 13);
this.label35.TabIndex = 64;
this.label35.Text = "Local de Emissão:";
//
// maskedTextBox4
//
this.maskedTextBox4.Location = new System.Drawing.Point(412, 182);
this.maskedTextBox4.Mask = "000000000";
this.maskedTextBox4.Name = "maskedTextBox4";
this.maskedTextBox4.Size = new System.Drawing.Size(62, 20);
this.maskedTextBox4.TabIndex = 68;
//
// label36
//
this.label36.AutoSize = true;
this.label36.Location = new System.Drawing.Point(64, 162);
this.label36.Name = "label36";
this.label36.Size = new System.Drawing.Size(20, 13);
this.label36.TabIndex = 61;
this.label36.Text = "BI:";
//
// label33
//
this.label33.AutoSize = true;
this.label33.Location = new System.Drawing.Point(328, 185);
this.label33.Name = "label33";
this.label33.Size = new System.Drawing.Size(84, 13);
this.label33.TabIndex = 67;
this.label33.Text = "N.º Contribuinte:";
//
// dateTimePicker1
//
this.dateTimePicker1.Format =
System.Windows.Forms.DateTimePickerFormat.Short;
this.dateTimePicker1.Location = new System.Drawing.Point(229, 159);
this.dateTimePicker1.Name = "dateTimePicker1";
this.dateTimePicker1.Size = new System.Drawing.Size(82, 20);
this.dateTimePicker1.TabIndex = 66;
//
// dateTimePicker2
//
this.dateTimePicker2.Format =
System.Windows.Forms.DateTimePickerFormat.Short;
this.dateTimePicker2.Location = new System.Drawing.Point(307, 111);
this.dateTimePicker2.Name = "dateTimePicker2";
this.dateTimePicker2.Size = new System.Drawing.Size(85, 20);
this.dateTimePicker2.TabIndex = 60;
```

```
//  
// label34  
//  
this.label34.AutoSize = true;  
this.label34.Location = new System.Drawing.Point(152, 162);  
this.label34.Name = "label34";  
this.label34.Size = new System.Drawing.Size(75, 13);  
this.label34.TabIndex = 65;  
this.label34.Text = "Data Emissão:";  
//  
// label37  
//  
this.label37.AutoSize = true;  
this.label37.Location = new System.Drawing.Point(214, 114);  
this.label37.Name = "label37";  
this.label37.Size = new System.Drawing.Size(92, 13);  
this.label37.TabIndex = 59;  
this.label37.Text = "Data Nascimento:";  
//  
// maskedTextBox6  
//  
this.maskedTextBox6.Location = new System.Drawing.Point(235, 182);  
this.maskedTextBox6.Mask = "(000) 0000000000";  
this.maskedTextBox6.Name = "maskedTextBox6";  
this.maskedTextBox6.Size = new System.Drawing.Size(87, 20);  
this.maskedTextBox6.TabIndex = 58;  
//  
// label38  
//  
this.label38.AutoSize = true;  
this.label38.Location = new System.Drawing.Point(176, 185);  
this.label38.Name = "label38";  
this.label38.Size = new System.Drawing.Size(59, 13);  
this.label38.TabIndex = 57;  
this.label38.Text = "Telemóvel:";  
//  
// label39  
//  
this.label39.AutoSize = true;  
this.label39.Location = new System.Drawing.Point(32, 185);  
this.label39.Name = "label39";  
this.label39.Size = new System.Drawing.Size(52, 13);  
this.label39.TabIndex = 56;  
this.label39.Text = "Telefone:";  
//  
// maskedTextBox7  
//  
this.maskedTextBox7.Location = new System.Drawing.Point(84, 182);  
this.maskedTextBox7.Mask = "(000) 0000000000";  
this.maskedTextBox7.Name = "maskedTextBox7";  
this.maskedTextBox7.Size = new System.Drawing.Size(87, 20);  
this.maskedTextBox7.TabIndex = 55;  
//  
// textBox9  
//  
this.textBox9.Location = new System.Drawing.Point(84, 136);  
this.textBox9.Name = "textBox9";
```

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this.textBox9.Size = new System.Drawing.Size(337, 20);
this.textBox9.TabIndex = 54;
//
// label40
//
this.label40.AutoSize = true;
this.label40.Location = new System.Drawing.Point(14, 139);
this.label40.Name = "label40";
this.label40.Size = new System.Drawing.Size(70, 13);
this.label40.TabIndex = 53;
this.label40.Text = "Naturalidade:";
//
// label41
//
this.label41.AutoSize = true;
this.label41.Location = new System.Drawing.Point(6, 115);
this.label41.Name = "label41";
this.label41.Size = new System.Drawing.Size(78, 13);
this.label41.TabIndex = 52;
this.label41.Text = "Nacionalidade:";
//
// comboBox2
//
this.comboBox2.FormattingEnabled = true;
this.comboBox2.Location = new System.Drawing.Point(84, 111);
this.comboBox2.Name = "comboBox2";
this.comboBox2.Size = new System.Drawing.Size(121, 21);
this.comboBox2.TabIndex = 51;
//
// mtbCodPosPai
//
this.mtbCodPosPai.Location = new System.Drawing.Point(84, 86);
this.mtbCodPosPai.Mask = "0000-000";
this.mtbCodPosPai.Name = "mtbCodPosPai";
this.mtbCodPosPai.Size = new System.Drawing.Size(57, 20);
this.mtbCodPosPai.TabIndex = 29;
//
// txtMorPai
//
this.txtMorPai.Location = new System.Drawing.Point(84, 62);
this.txtMorPai.Name = "txtMorPai";
this.txtMorPai.Size = new System.Drawing.Size(334, 20);
this.txtMorPai.TabIndex = 18;
//
// label30
//
this.label30.AutoSize = true;
this.label30.Location = new System.Drawing.Point(9, 89);
this.label30.Name = "label30";
this.label30.Size = new System.Drawing.Size(75, 13);
this.label30.TabIndex = 27;
this.label30.Text = "Código Postal:";
//
// txtLocPai
//
this.txtLocPai.Location = new System.Drawing.Point(213, 86);
this.txtLocPai.Name = "txtLocPai";

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this.txtLocPai.Size = new System.Drawing.Size(205, 20);
this.txtLocPai.TabIndex = 19;
//
// label29
//
this.label29.AutoSize = true;
this.label29.Location = new System.Drawing.Point(151, 89);
this.label29.Name = "label29";
this.label29.Size = new System.Drawing.Size(62, 13);
this.label29.TabIndex = 26;
this.label29.Text = "Localidade:";
//
// label28
//
this.label28.AutoSize = true;
this.label28.Location = new System.Drawing.Point(38, 65);
this.label28.Name = "label28";
this.label28.Size = new System.Drawing.Size(46, 13);
this.label28.TabIndex = 25;
this.label28.Text = "Morada:";
//
// label27
//
this.label27.AutoSize = true;
this.label27.Location = new System.Drawing.Point(39, 41);
this.label27.Name = "label27";
this.label27.Size = new System.Drawing.Size(45, 13);
this.label27.TabIndex = 24;
this.label27.Text = "Apelido:";
//
// label26
//
this.label26.AutoSize = true;
this.label26.Location = new System.Drawing.Point(46, 17);
this.label26.Name = "label26";
this.label26.Size = new System.Drawing.Size(38, 13);
this.label26.TabIndex = 23;
this.label26.Text = "Nome:";
//
// txtApePai
//
this.txtApePai.Location = new System.Drawing.Point(84, 38);
this.txtApePai.Name = "txtApePai";
this.txtApePai.Size = new System.Drawing.Size(334, 20);
this.txtApePai.TabIndex = 17;
//
// txtNomPai
//
this.txtNomPai.Location = new System.Drawing.Point(84, 14);
this.txtNomPai.Name = "txtNomPai";
this.txtNomPai.Size = new System.Drawing.Size(246, 20);
this.txtNomPai.TabIndex = 16;
//
// pictureBox2
//
this.pictureBox2.BorderStyle = System.Windows.Forms.BorderStyle.Fixed3D;
this.pictureBox2.Location = new System.Drawing.Point(532, 13);
```



```
this.pictureBox2.Name = "pictureBox2";
this.pictureBox2.Size = new System.Drawing.Size(100, 131);
this.pictureBox2.TabIndex = 14;
this.pictureBox2.TabStop = false;
//
// tpFinanceiro
//
this.tpFinanceiro.Controls.Add(this.txtDesconto);
this.tpFinanceiro.Controls.Add(this.label62);
this.tpFinanceiro.Location = new System.Drawing.Point(4, 22);
this.tpFinanceiro.Name = "tpFinanceiro";
this.tpFinanceiro.Size = new System.Drawing.Size(726, 440);
this.tpFinanceiro.TabIndex = 3;
this.tpFinanceiro.Text = "Financeiro";
this.tpFinanceiro.UseVisualStyleBackColor = true;
//
// tpObservacoes
//
this.tpObservacoes.Controls.Add(this.rtbObs);
this.tpObservacoes.Location = new System.Drawing.Point(4, 22);
this.tpObservacoes.Name = "tpObservacoes";
this.tpObservacoes.Size = new System.Drawing.Size(726, 440);
this.tpObservacoes.TabIndex = 2;
this.tpObservacoes.Text = "Observações";
this.tpObservacoes.UseVisualStyleBackColor = true;
//
// label9
//
this.label9.AutoSize = true;
this.label9.Location = new System.Drawing.Point(118, 169);
this.label9.Name = "label9";
this.label9.Size = new System.Drawing.Size(78, 13);
this.label9.TabIndex = 29;
this.label9.Text = "Nacionalidade:";
//
// comboBox1
//
this.comboBox1.FormattingEnabled = true;
this.comboBox1.Location = new System.Drawing.Point(191, 162);
this.comboBox1.Name = "comboBox1";
this.comboBox1.Size = new System.Drawing.Size(121, 21);
this.comboBox1.TabIndex = 28;
//
// label10
//
this.label10.AutoSize = true;
this.label10.Location = new System.Drawing.Point(115, 138);
this.label10.Name = "label10";
this.label10.Size = new System.Drawing.Size(75, 13);
this.label10.TabIndex = 27;
this.label10.Text = "Código Postal:";
//
// maskedTextBox1
//
this.maskedTextBox1.Location = new System.Drawing.Point(191, 136);
this.maskedTextBox1.Mask = "0000-000";
this.maskedTextBox1.Name = "maskedTextBox1";
```

```
this.maskedTextBox1.Size = new System.Drawing.Size(57, 20);
this.maskedTextBox1.TabIndex = 26;
//
// textBox1
//
this.textBox1.Location = new System.Drawing.Point(162, 112);
this.textBox1.Name = "textBox1";
this.textBox1.Size = new System.Drawing.Size(302, 20);
this.textBox1.TabIndex = 25;
//
// label11
//
this.label11.AutoSize = true;
this.label11.Location = new System.Drawing.Point(120, 113);
this.label11.Name = "label11";
this.label11.Size = new System.Drawing.Size(62, 13);
this.label11.TabIndex = 24;
this.label11.Text = "Localidade:";
//
// textBox2
//
this.textBox2.Location = new System.Drawing.Point(164, 86);
this.textBox2.Name = "textBox2";
this.textBox2.Size = new System.Drawing.Size(302, 20);
this.textBox2.TabIndex = 23;
//
// label12
//
this.label12.AutoSize = true;
this.label12.Location = new System.Drawing.Point(122, 87);
this.label12.Name = "label12";
this.label12.Size = new System.Drawing.Size(46, 13);
this.label12.TabIndex = 22;
this.label12.Text = "Morada:";
//
// label13
//
this.label13.AutoSize = true;
this.label13.Location = new System.Drawing.Point(275, 17);
this.label13.Name = "label13";
this.label13.Size = new System.Drawing.Size(47, 13);
this.label13.TabIndex = 21;
this.label13.Text = "Número:";
//
// textBox3
//
this.textBox3.Location = new System.Drawing.Point(322, 14);
this.textBox3.Name = "textBox3";
this.textBox3.Size = new System.Drawing.Size(102, 20);
this.textBox3.TabIndex = 20;
//
// textBox4
//
this.textBox4.Location = new System.Drawing.Point(162, 61);
this.textBox4.Name = "textBox4";
this.textBox4.Size = new System.Drawing.Size(302, 20);
this.textBox4.TabIndex = 19;
```

```

//
// textBox5
//
this.textBox5.Location = new System.Drawing.Point(162, 37);
this.textBox5.Name = "textBox5";
this.textBox5.Size = new System.Drawing.Size(302, 20);
this.textBox5.TabIndex = 18;
//
// label14
//
this.label14.AutoSize = true;
this.label14.Location = new System.Drawing.Point(115, 17);
this.label14.Name = "label14";
this.label14.Size = new System.Drawing.Size(47, 13);
this.label14.TabIndex = 17;
this.label14.Text = "Número:";
//
// label15
//
this.label15.AutoSize = true;
this.label15.Location = new System.Drawing.Point(120, 62);
this.label15.Name = "label15";
this.label15.Size = new System.Drawing.Size(45, 13);
this.label15.TabIndex = 16;
this.label15.Text = "Apelido:";
//
// textBox6
//
this.textBox6.Location = new System.Drawing.Point(162, 14);
this.textBox6.Name = "textBox6";
this.textBox6.Size = new System.Drawing.Size(102, 20);
this.textBox6.TabIndex = 15;
//
// label16
//
this.label16.AutoSize = true;
this.label16.Location = new System.Drawing.Point(126, 39);
this.label16.Name = "label16";
this.label16.Size = new System.Drawing.Size(38, 13);
this.label16.TabIndex = 14;
this.label16.Text = "Nome:";
//
// pictureBox1
//
this.pictureBox1.BorderStyle = System.Windows.Forms.BorderStyle.Fixed3D;
this.pictureBox1.Location = new System.Drawing.Point(8, 16);
this.pictureBox1.Name = "pictureBox1";
this.pictureBox1.Size = new System.Drawing.Size(100, 131);
this.pictureBox1.TabIndex = 13;
this.pictureBox1.TabStop = false;
//
// tsdbProcurar
//
this.tsdbProcurar.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
this.tsdbProcurar.Image =
((System.Drawing.Image) (resources.GetObject("tsdbProcurar.Image")));

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        this.tsdbProcurar.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsdbProcurar.Name = "tsdbProcurar";
        this.tsdbProcurar.Size = new System.Drawing.Size(29, 22);
        this.tsdbProcurar.Text = "toolStripDropDownButton1";
        //
        // tsbNovo
        //
        this.tsbNovo.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbNovo.Image =
((System.Drawing.Image)(resources.GetObject("tsbNovo.Image")));
        this.tsbNovo.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbNovo.Name = "tsbNovo";
        this.tsbNovo.Size = new System.Drawing.Size(23, 22);
        this.tsbNovo.Text = "toolStripButton1";
        //
        // tsbApagar
        //
        this.tsbApagar.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbApagar.Image =
((System.Drawing.Image)(resources.GetObject("tsbApagar.Image")));
        this.tsbApagar.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbApagar.Name = "tsbApagar";
        this.tsbApagar.Size = new System.Drawing.Size(23, 22);
        this.tsbApagar.Text = "toolStripButton1";
        //
        // tsdbOpcDiv
        //
        this.tsdbOpcDiv.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsdbOpcDiv.Image =
((System.Drawing.Image)(resources.GetObject("tsdbOpcDiv.Image")));
        this.tsdbOpcDiv.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsdbOpcDiv.Name = "tsdbOpcDiv";
        this.tsdbOpcDiv.Size = new System.Drawing.Size(29, 22);
        this.tsdbOpcDiv.Text = "toolStripDropDownButton1";
        //
        // tsbMapas
        //
        this.tsbMapas.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbMapas.Image =
((System.Drawing.Image)(resources.GetObject("tsbMapas.Image")));
        this.tsbMapas.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbMapas.Name = "tsbMapas";
        this.tsbMapas.Size = new System.Drawing.Size(23, 22);
        this.tsbMapas.Text = "toolStripButton1";
        //
        // tsbAjuda
        //
        this.tsbAjuda.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbAjuda.Image =
((System.Drawing.Image)(resources.GetObject("tsbAjuda.Image")));
        this.tsbAjuda.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbAjuda.Name = "tsbAjuda";

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this.tsbAjuda.Size = new System.Drawing.Size(23, 22);
this.tsbAjuda.Text = "toolStripButton1";
//
// ssAluno
//
this.ssAluno.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {
this.tsslALStatus,
this.tsslTime,
this.tsslTimer,
this.tsslALTimer});
this.ssAluno.Location = new System.Drawing.Point(0, 530);
this.ssAluno.Name = "ssAluno";
this.ssAluno.Size = new System.Drawing.Size(735, 22);
this.ssAluno.TabIndex = 15;
this.ssAluno.Text = "statusStrip1";
//
// tsslALStatus
//
this.tsslALStatus.Name = "tsslALStatus";
this.tsslALStatus.Size = new System.Drawing.Size(39, 17);
this.tsslALStatus.Text = "Pronto";
//
// tsslTime
//
this.tsslTime.BorderStyle = System.Windows.Forms.Border3DStyle.RaisedOuter;
this.tsslTime.Name = "tsslTime";
this.tsslTime.Size = new System.Drawing.Size(0, 17);
//
// tsslTimer
//
this.tsslTimer.Name = "tsslTimer";
this.tsslTimer.Size = new System.Drawing.Size(0, 17);
//
// tsslALTimer
//
this.tsslALTimer.Name = "tsslALTimer";
this.tsslALTimer.Size = new System.Drawing.Size(0, 17);
//
// tmrAluno
//
this.tmrAluno.Interval = 1000;
this.tmrAluno.Tick += new System.EventHandler(this.tmrAluno_Tick);
//
// tsProfissao
//
this.tsProfissao.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {
this.toolStripDropDownButton1,
this.toolStripSeparator2,
this.tsbNovaFic,
this.tsbAtualizar,
this.tsbApagaFic,
this.toolStripSeparator3,
this.toolStripDropDownButton2,
this.toolStripButton3,
this.toolStripSeparator4,
this.toolStripButton4,
this.toolStripSeparator1,

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        this.tsbUmBaixo,
        this.tsbUltimo,
        this.tsbUmCima,
        this.tsbPrimeiro,
        this.toolStripSeparator5));
        this.tsProfissao.Location = new System.Drawing.Point(0, 0);
        this.tsProfissao.Name = "tsProfissao";
        this.tsProfissao.Size = new System.Drawing.Size(735, 25);
        this.tsProfissao.TabIndex = 16;
        this.tsProfissao.Text = "toolStrip1";
        //
        // toolStripDropDownButton1
        //
        this.toolStripDropDownButton1.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.toolStripDropDownButton1.DropDownItems.AddRange(new
System.Windows.Forms.ToolStripItem[] {
        this.tsmiTodos});
        this.toolStripDropDownButton1.Image =
((System.Drawing.Image) (resources.GetObject("toolStripDropDownButton1.Image")));
        this.toolStripDropDownButton1.ImageTransparentColor =
System.Drawing.Color.Magenta;
        this.toolStripDropDownButton1.Name = "toolStripDropDownButton1";
        this.toolStripDropDownButton1.Size = new System.Drawing.Size(29, 22);
        this.toolStripDropDownButton1.Text = "toolStripDropDownButton1";
        //
        // tsmiTodos
        //
        this.tsmiTodos.Name = "tsmiTodos";
        this.tsmiTodos.Size = new System.Drawing.Size(114, 22);
        this.tsmiTodos.Text = "Todos";
        //
        // toolStripSeparator2
        //
        this.toolStripSeparator2.Name = "toolStripSeparator2";
        this.toolStripSeparator2.Size = new System.Drawing.Size(6, 25);
        //
        // tsbNovaFic
        //
        this.tsbNovaFic.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbNovaFic.Image =
((System.Drawing.Image) (resources.GetObject("tsbNovaFic.Image")));
        this.tsbNovaFic.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbNovaFic.Name = "tsbNovaFic";
        this.tsbNovaFic.Size = new System.Drawing.Size(23, 22);
        this.tsbNovaFic.Text = "toolStripButton1";
        this.tsbNovaFic.Click += new System.EventHandler(this.tsbNovaFic_Click);
        //
        // tsbAtualizar
        //
        this.tsbAtualizar.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbAtualizar.Image =
((System.Drawing.Image) (resources.GetObject("tsbAtualizar.Image")));
        this.tsbAtualizar.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbAtualizar.Name = "tsbAtualizar";

```

```

        this.tsbAtualizar.Size = new System.Drawing.Size(23, 22);
        this.tsbAtualizar.Text = "Atualizar registo";
        this.tsbAtualizar.Click += new
System.EventHandler(this.tsbAtualizar_Click);
        //
        // tsbApagaFic
        //
        this.tsbApagaFic.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbApagaFic.Image =
((System.Drawing.Image)(resources.GetObject("tsbApagaFic.Image")));
        this.tsbApagaFic.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbApagaFic.Name = "tsbApagaFic";
        this.tsbApagaFic.Size = new System.Drawing.Size(23, 22);
        this.tsbApagaFic.Text = "toolStripButton1";
        this.tsbApagaFic.Click += new System.EventHandler(this.tsbApagaFic_Click);
        //
        // toolStripSeparator3
        //
        this.toolStripSeparator3.Name = "toolStripSeparator3";
        this.toolStripSeparator3.Size = new System.Drawing.Size(6, 25);
        //
        // toolStripDropDownButton2
        //
        this.toolStripDropDownButton2.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.toolStripDropDownButton2.Image =
((System.Drawing.Image)(resources.GetObject("toolStripDropDownButton2.Image")));
        this.toolStripDropDownButton2.ImageTransparentColor =
System.Drawing.Color.Magenta;
        this.toolStripDropDownButton2.Name = "toolStripDropDownButton2";
        this.toolStripDropDownButton2.Size = new System.Drawing.Size(29, 22);
        this.toolStripDropDownButton2.Text = "toolStripDropDownButton1";
        //
        // toolStripButton3
        //
        this.toolStripButton3.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.toolStripButton3.Image =
((System.Drawing.Image)(resources.GetObject("toolStripButton3.Image")));
        this.toolStripButton3.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.toolStripButton3.Name = "toolStripButton3";
        this.toolStripButton3.Size = new System.Drawing.Size(23, 22);
        this.toolStripButton3.Text = "toolStripButton1";
        //
        // toolStripSeparator4
        //
        this.toolStripSeparator4.Name = "toolStripSeparator4";
        this.toolStripSeparator4.Size = new System.Drawing.Size(6, 25);
        //
        // toolStripButton4
        //
        this.toolStripButton4.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.toolStripButton4.Image =
((System.Drawing.Image)(resources.GetObject("toolStripButton4.Image")));
        this.toolStripButton4.ImageTransparentColor = System.Drawing.Color.Magenta;

```

```

        this.toolStripButton4.Name = "toolStripButton4";
        this.toolStripButton4.Size = new System.Drawing.Size(23, 22);
        this.toolStripButton4.Text = "toolStripButton1";
        //
        // toolStripSeparator1
        //
        this.toolStripSeparator1.Name = "toolStripSeparator1";
        this.toolStripSeparator1.Size = new System.Drawing.Size(6, 25);
        //
        // tsbUmBaixo
        //
        this.tsbUmBaixo.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbUmBaixo.Image =
((System.Drawing.Image)(resources.GetObject("tsbUmBaixo.Image")));
        this.tsbUmBaixo.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbUmBaixo.Name = "tsbUmBaixo";
        this.tsbUmBaixo.Size = new System.Drawing.Size(23, 22);
        this.tsbUmBaixo.Text = "Mover Registo um para cima";
        this.tsbUmBaixo.Click += new System.EventHandler(this.tsbUmBaixo_Click);
        //
        // tsbUltimo
        //
        this.tsbUltimo.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbUltimo.Image =
((System.Drawing.Image)(resources.GetObject("tsbUltimo.Image")));
        this.tsbUltimo.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbUltimo.Name = "tsbUltimo";
        this.tsbUltimo.Size = new System.Drawing.Size(23, 22);
        this.tsbUltimo.Text = "Mover para o Ultimo registo";
        this.tsbUltimo.Click += new System.EventHandler(this.tsbUltimo_Click);
        //
        // tsbUmCima
        //
        this.tsbUmCima.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbUmCima.Image =
((System.Drawing.Image)(resources.GetObject("tsbUmCima.Image")));
        this.tsbUmCima.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbUmCima.Name = "tsbUmCima";
        this.tsbUmCima.Size = new System.Drawing.Size(23, 22);
        this.tsbUmCima.Text = "Mover um registo para cima";
        this.tsbUmCima.Click += new System.EventHandler(this.tsbUmCima_Click);
        //
        // tsbPrimeiro
        //
        this.tsbPrimeiro.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbPrimeiro.Image =
((System.Drawing.Image)(resources.GetObject("tsbPrimeiro.Image")));
        this.tsbPrimeiro.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbPrimeiro.Name = "tsbPrimeiro";
        this.tsbPrimeiro.Size = new System.Drawing.Size(23, 22);
        this.tsbPrimeiro.Text = "Mover todos os registos para cima";
        this.tsbPrimeiro.Click += new System.EventHandler(this.tsbPrimeiro_Click);
        //
    
```



```

// toolStripSeparator5
//
this.toolStripSeparator5.Name = "toolStripSeparator5";
this.toolStripSeparator5.Size = new System.Drawing.Size(6, 25);
//
// rtbObs
//
this.rtbObs.Location = new System.Drawing.Point(17, 12);
this.rtbObs.Name = "rtbObs";
this.rtbObs.Size = new System.Drawing.Size(689, 413);
this.rtbObs.TabIndex = 0;
this.rtbObs.Text = "";
//
// label62
//
this.label62.AutoSize = true;
this.label62.Location = new System.Drawing.Point(26, 18);
this.label62.Name = "label62";
this.label62.Size = new System.Drawing.Size(56, 13);
this.label62.TabIndex = 0;
this.label62.Text = "Desconto:";
//
// txtDesconto
//
this.txtDesconto.Location = new System.Drawing.Point(82, 16);
this.txtDesconto.Name = "txtDesconto";
this.txtDesconto.Size = new System.Drawing.Size(100, 20);
this.txtDesconto.TabIndex = 1;
//
// mtbDatEmi
//
this.mtbDatEmi.Location = new System.Drawing.Point(259, 230);
this.mtbDatEmi.Mask = "0000-00-00";
this.mtbDatEmi.Name = "mtbDatEmi";
this.mtbDatEmi.Size = new System.Drawing.Size(60, 20);
this.mtbDatEmi.TabIndex = 65;
//
// mtbDatNas
//
this.mtbDatNas.Location = new System.Drawing.Point(114, 278);
this.mtbDatNas.Mask = "0000-00-00";
this.mtbDatNas.Name = "mtbDatNas";
this.mtbDatNas.Size = new System.Drawing.Size(60, 20);
this.mtbDatNas.TabIndex = 66;
//
// mtbDatIns
//
this.mtbDatIns.Location = new System.Drawing.Point(114, 325);
this.mtbDatIns.Mask = "0000-00-00";
this.mtbDatIns.Name = "mtbDatIns";
this.mtbDatIns.Size = new System.Drawing.Size(61, 20);
this.mtbDatIns.TabIndex = 67;
//
// btnProDes
//
this.btnProDes.AutoSize = true;

```

```

        this.btnProDes.BackgroundImage =
((System.Drawing.Image) (resources.GetObject("btnProDes.BackgroundImage")));
        this.btnProDes.BackgroundImageLayout =
System.Windows.Forms.ImageLayout.Stretch;
        this.btnProDes.Location = new System.Drawing.Point(390, 11);
        this.btnProDes.Name = "btnProDes";
        this.btnProDes.Size = new System.Drawing.Size(19, 19);
        this.btnProDes.TabIndex = 240;
        this.btnProDes.UseVisualStyleBackColor = true;
        //
        // btnProCod
        //
        this.btnProCod.AutoSize = true;
        this.btnProCod.BackgroundImage =
((System.Drawing.Image) (resources.GetObject("btnProCod.BackgroundImage")));
        this.btnProCod.BackgroundImageLayout =
System.Windows.Forms.ImageLayout.Stretch;
        this.btnProCod.Location = new System.Drawing.Point(216, 11);
        this.btnProCod.Name = "btnProCod";
        this.btnProCod.Size = new System.Drawing.Size(19, 19);
        this.btnProCod.TabIndex = 239;
        this.btnProCod.UseVisualStyleBackColor = true;
        this.btnProCod.Click += new System.EventHandler(this.btnProCod_Click);
        //
        // button1
        //
        this.button1.AutoSize = true;
        this.button1.BackgroundImage =
((System.Drawing.Image) (resources.GetObject("button1.BackgroundImage")));
        this.button1.BackgroundImageLayout =
System.Windows.Forms.ImageLayout.Stretch;
        this.button1.Location = new System.Drawing.Point(389, 35);
        this.button1.Name = "button1";
        this.button1.Size = new System.Drawing.Size(19, 19);
        this.button1.TabIndex = 241;
        this.button1.UseVisualStyleBackColor = true;
        //
        // cbbSexo
        //
        this.cbbSexo.FormattingEnabled = true;
        this.cbbSexo.Items.AddRange(new object[] {
            "Feminino",
            "Masculino"});
        this.cbbSexo.Location = new System.Drawing.Point(19, 17);
        this.cbbSexo.Name = "cbbSexo";
        this.cbbSexo.Size = new System.Drawing.Size(121, 21);
        this.cbbSexo.TabIndex = 0;
        //
        // frmAluno
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(735, 552);
        this.Controls.Add(this.tsProfissao);
        this.Controls.Add(this.ssAluno);
        this.Controls.Add(this.tbcFicAlu);
        this.Controls.Add(this.btnCancelar);
    
```

```

        this.Controls.Add(this.btnGravar);
        this.Name = "frmAluno";
        this.Text = "FICHA ALUNO";
        this.Load += new System.EventHandler(this.frmAluno_Load);
        this.tbcFicAlu.ResumeLayout(false);
        this.tpAluno.ResumeLayout(false);
        this.tpAluno.PerformLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pbFoto1)).EndInit();
        this.gbEncEdu.ResumeLayout(false);
        this.gbEncEdu.PerformLayout();
        this.gbFinanceiro.ResumeLayout(false);
        this.gbFinanceiro.PerformLayout();
        this.gbSexo.ResumeLayout(false);
        this.gbPesAutLevCri.ResumeLayout(false);
        this.gbPesAutLevCri.PerformLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pcbFoto)).EndInit();
        this.tpFicCli.ResumeLayout(false);
        this.tpFicCli.PerformLayout();
        this.tpParente.ResumeLayout(false);
        this.gbMae.ResumeLayout(false);
        this.gbMae.PerformLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pictureBox3)).EndInit();
        this.gbPai.ResumeLayout(false);
        this.gbPai.PerformLayout();
        ((System.ComponentModel.ISupportInitialize)(this.pictureBox2)).EndInit();
        this.tpFinanceiro.ResumeLayout(false);
        this.tpFinanceiro.PerformLayout();
        this.tpObservacoes.ResumeLayout(false);
        ((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).EndInit();
        this.ssAluno.ResumeLayout(false);
        this.ssAluno.PerformLayout();
        this.tsProfissao.ResumeLayout(false);
        this.tsProfissao.PerformLayout();
        this.ResumeLayout(false);
        this.PerformLayout();

    }

#endregion

private System.Windows.Forms.Button btnGravar;
private System.Windows.Forms.Button btnCancelar;
private System.Windows.Forms.OpenFileDialog ofdFoto;
private System.Windows.Forms.TabControl tbcFicAlu;
private System.Windows.Forms.TabPage tpAluno;
private System.Windows.Forms.TabPage tpParente;
private System.Windows.Forms.Label label4;
private System.Windows.Forms.TextBox txtAno;
private System.Windows.Forms.TextBox txtApelido;
private System.Windows.Forms.TextBox txtNome;
private System.Windows.Forms.Label label3;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.TextBox txtNALuno;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.PictureBox pcbFoto;
private System.Windows.Forms.Label label7;
private System.Windows.Forms.MaskedTextBox mtbCodPos;

```

```
private System.Windows.Forms.TextBox txtLocalidade;
private System.Windows.Forms.Label label6;
private System.Windows.Forms.TextBox txtMorada;
private System.Windows.Forms.Label label5;
private System.Windows.Forms.Label label8;
private System.Windows.Forms.ComboBox cbbNacionalidade;
private System.Windows.Forms.TextBox txtNaturalidade;
private System.Windows.Forms.Label label17;
private System.Windows.Forms.Label label9;
private System.Windows.Forms.ComboBox comboBox1;
private System.Windows.Forms.Label label10;
private System.Windows.Forms.MaskedTextBox maskedTextBox1;
private System.Windows.Forms.TextBox textBox1;
private System.Windows.Forms.Label label11;
private System.Windows.Forms.TextBox textBox2;
private System.Windows.Forms.Label label12;
private System.Windows.Forms.Label label13;
private System.Windows.Forms.TextBox textBox3;
private System.Windows.Forms.TextBox textBox4;
private System.Windows.Forms.TextBox textBox5;
private System.Windows.Forms.Label label14;
private System.Windows.Forms.Label label15;
private System.Windows.Forms.TextBox textBox6;
private System.Windows.Forms.Label label16;
private System.Windows.Forms.PictureBox pictureBox1;
private System.Windows.Forms.Label label20;
private System.Windows.Forms.MaskedTextBox mtbTelemovei;
private System.Windows.Forms.Label label19;
private System.Windows.Forms.Label label18;
private System.Windows.Forms.MaskedTextBox mtbTelefone;
private System.Windows.Forms.MaskedTextBox mtbBI;
private System.Windows.Forms.Label label21;
private System.Windows.Forms.GroupBox gbPai;
private System.Windows.Forms.PictureBox pictureBox2;
private System.Windows.Forms.Label label23;
private System.Windows.Forms.Label label22;
private System.Windows.Forms.TextBox txtBILocEmi;
private System.Windows.Forms.MaskedTextBox mtbNumBen;
private System.Windows.Forms.Label label25;
private System.Windows.Forms.MaskedTextBox mtbContribuinte;
private System.Windows.Forms.Label label24;
private System.Windows.Forms.Label label30;
private System.Windows.Forms.Label label29;
private System.Windows.Forms.Label label28;
private System.Windows.Forms.Label label27;
private System.Windows.Forms.Label label26;
private System.Windows.Forms.TextBox txtLocPai;
private System.Windows.Forms.TextBox txtMorPai;
private System.Windows.Forms.TextBox txtApePai;
private System.Windows.Forms.TextBox txtNomPai;
private System.Windows.Forms.TabPage tpObservacoes;
private System.Windows.Forms.TabPage tpFinanceiro;
private System.Windows.Forms.ToolStripDropDownButton tsdbProcurar;
private System.Windows.Forms.ToolStripButton tsbNovo;
private System.Windows.Forms.ToolStripButton tsbApagar;
private System.Windows.Forms.ToolStripDropDownButton tsdbOpcDiv;
private System.Windows.Forms.ToolStripButton tsbMapas;
```

```
private System.Windows.Forms.ToolStripButton tsbAjuda;
private System.Windows.Forms.StatusStrip ssAluno;
private System.Windows.Forms.ToolStripStatusLabel tsslALStatus;
private System.Windows.Forms.ToolStripStatusLabel tsslTime;
private System.Windows.Forms.ToolStripStatusLabel tsslTimer;
private System.Windows.Forms.Timer tmrAluno;
private System.Windows.Forms.ToolStripStatusLabel tsslALTimer;
private System.Windows.Forms.Label lblAnos;
private System.Windows.Forms.MaskedTextBox mtbCodPosPai;
private System.Windows.Forms.MaskedTextBox maskedTextBox3;
private System.Windows.Forms.Label label31;
private System.Windows.Forms.MaskedTextBox maskedTextBox4;
private System.Windows.Forms.Label label33;
private System.Windows.Forms.DateTimePicker dateTimePicker1;
private System.Windows.Forms.Label label34;
private System.Windows.Forms.Label label35;
private System.Windows.Forms.TextBox textBox8;
private System.Windows.Forms.MaskedTextBox maskedTextBox5;
private System.Windows.Forms.Label label36;
private System.Windows.Forms.DateTimePicker dateTimePicker2;
private System.Windows.Forms.Label label37;
private System.Windows.Forms.MaskedTextBox maskedTextBox6;
private System.Windows.Forms.Label label38;
private System.Windows.Forms.Label label39;
private System.Windows.Forms.MaskedTextBox maskedTextBox7;
private System.Windows.Forms.TextBox textBox9;
private System.Windows.Forms.Label label40;
private System.Windows.Forms.Label label41;
private System.Windows.Forms.ComboBox comboBox2;
private System.Windows.Forms.GroupBox gbMae;
private System.Windows.Forms.MaskedTextBox maskedTextBox8;
private System.Windows.Forms.TextBox textBox10;
private System.Windows.Forms.MaskedTextBox maskedTextBox9;
private System.Windows.Forms.Label label42;
private System.Windows.Forms.Label label43;
private System.Windows.Forms.MaskedTextBox maskedTextBox10;
private System.Windows.Forms.Label label44;
private System.Windows.Forms.Label label45;
private System.Windows.Forms.DateTimePicker dateTimePicker3;
private System.Windows.Forms.DateTimePicker dateTimePicker4;
private System.Windows.Forms.Label label46;
private System.Windows.Forms.Label label47;
private System.Windows.Forms.MaskedTextBox maskedTextBox11;
private System.Windows.Forms.Label label48;
private System.Windows.Forms.Label label49;
private System.Windows.Forms.MaskedTextBox maskedTextBox12;
private System.Windows.Forms.TextBox textBox11;
private System.Windows.Forms.Label label50;
private System.Windows.Forms.Label label51;
private System.Windows.Forms.ComboBox comboBox3;
private System.Windows.Forms.MaskedTextBox maskedTextBox13;
private System.Windows.Forms.TextBox textBox12;
private System.Windows.Forms.Label label52;
private System.Windows.Forms.TextBox textBox13;
private System.Windows.Forms.Label label53;
private System.Windows.Forms.Label label54;
private System.Windows.Forms.Label label55;
```

```
private System.Windows.Forms.Label label156;
private System.Windows.Forms.TextBox textBox14;
private System.Windows.Forms.TextBox textBox15;
private System.Windows.Forms.PictureBox pictureBox3;
private System.Windows.Forms.GroupBox gbPesAutLevCri;
private System.Windows.Forms.CheckBox ckbOutos;
private System.Windows.Forms.CheckBox ckbMae;
private System.Windows.Forms.CheckBox ckbPai;
private System.Windows.Forms.ListBox listBox1;
private System.Windows.Forms.GroupBox gbSexo;
private System.Windows.Forms.GroupBox gbFinanceiro;
private System.Windows.Forms.TextBox txtConCor;
private System.Windows.Forms.Label lblConCor;
private System.Windows.Forms.CheckBox checkBox1;
private System.Windows.Forms.Label label132;
private System.Windows.Forms.CheckBox checkBox2;
private System.Windows.Forms.ComboBox cbbPagMenOut;
private System.Windows.Forms.CheckBox checkBox3;
private System.Windows.Forms.ComboBox cbbTurma;
private System.Windows.Forms.Label label158;
private System.Windows.Forms.Label label157;
private System.Windows.Forms.GroupBox gbEncEdu;
private System.Windows.Forms.CheckBox checkBox4;
private System.Windows.Forms.CheckBox checkBox5;
private System.Windows.Forms.CheckBox checkBox6;
private System.Windows.Forms.ComboBox cbbEdu;
private System.Windows.Forms.PictureBox pbFoto1;
private System.Windows.Forms.TabPage tpFicCli;
private System.Windows.Forms.Label label159;
private System.Windows.Forms.TextBox textBox16;
private System.Windows.Forms.ListBox listBox2;
private System.Windows.Forms.CheckBox checkBox7;
private System.Windows.Forms.TextBox textBox17;
private System.Windows.Forms.Label label160;
private System.Windows.Forms.TextBox textBox18;
private System.Windows.Forms.Label label161;
private System.Windows.Forms.ToolStrip tsProfissao;
private System.Windows.Forms.ToolStripDropDownButton toolStripDropDownButton1;
private System.Windows.Forms.ToolStripMenuItem tsmiTodos;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator2;
private System.Windows.Forms.ToolStripButton tsbNovaFic;
private System.Windows.Forms.ToolStripButton tsbAtualizar;
private System.Windows.Forms.ToolStripButton tsbApagaFic;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator3;
private System.Windows.Forms.ToolStripDropDownButton toolStripDropDownButton2;
private System.Windows.Forms.ToolStripButton toolStripButton3;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator4;
private System.Windows.Forms.ToolStripButton toolStripButton4;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator1;
private System.Windows.Forms.ToolStripButton tsbUmBaixo;
private System.Windows.Forms.ToolStripButton tsbUltimo;
private System.Windows.Forms.ToolStripButton tsbUmCima;
private System.Windows.Forms.ToolStripButton tsbPrimeiro;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator5;
private System.Windows.Forms.RichTextBox rtbObs;
private System.Windows.Forms.TextBox txtDesconto;
private System.Windows.Forms.Label label162;
```



```

        private System.Windows.Forms.MaskedTextBox mtbDatIns;
        private System.Windows.Forms.MaskedTextBox mtbDatNas;
        private System.Windows.Forms.MaskedTextBox mtbDatEmi;
        private System.Windows.Forms.Button button1;
        private System.Windows.Forms.Button btnProDes;
        private System.Windows.Forms.Button btnProCod;
        private System.Windows.Forms.ComboBox cbbSexo;
    }
}

```

frmAluno.resx

```

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

```

Microsoft ResX Schema

Version 2.0

The primary goals of this format is to allow a simple XML format that is mostly human readable. The generation and parsing of the various data types are done through the TypeConverter classes associated with the data types.

Example:

```

... ado.net/XML headers & schema ...
<resheader name="resmime" type="text/microsoft-resx"/>
<resheader name="version">2.0</resheader>
<resheader name="reader">System.Resources.ResXResourceReader, System.Windows.Forms,
...</resheader>
<resheader name="writer">System.Resources.ResXResourceWriter, System.Windows.Forms,
...</resheader>
<data name="Name1"><value>this is my long string</value><comment>this is a
comment</comment></data>
<data name="Color1" type="System.Drawing.Color, System.Drawing">Blue</data>
<data name="Bitmap1" mimetype="application/x-microsoft.net.object.binary.base64">
  <value>[base64 mime encoded serialized .NET Framework object]</value>
</data>
<data name="Icon1" type="System.Drawing.Icon, System.Drawing"
mimetype="application/x-microsoft.net.object.bytearray.base64">
  <value>[base64 mime encoded string representing a byte array form of the .NET
Framework object]</value>
  <comment>This is a comment</comment>
</data>

```

There are any number of "resheader" rows that contain simple name/value pairs.

Each data row contains a name, and value. The row also contains a type or mimetype. Type corresponds to a .NET class that support text/value conversion through the TypeConverter architecture. Classes that don't support this are serialized and stored with the mimetype set.

The mimetype is used for serialized objects, and tells the ResXResourceReader how to depersist the object. This is currently not

extensible. For a given mimetype the value must be set accordingly:

Note - application/x-microsoft.net.object.binary.base64 is the format that the ResXResourceWriter will generate, however the reader can read any of the formats listed below.

mimetype: application/x-microsoft.net.object.binary.base64
 value : The object must be serialized with
 : System.Runtime.Serialization.Formatters.Binary.BinaryFormatter
 : and then encoded with base64 encoding.

mimetype: application/x-microsoft.net.object.soap.base64
 value : The object must be serialized with
 : System.Runtime.Serialization.Formatters.Soap.SoapFormatter
 : and then encoded with base64 encoding.

mimetype: application/x-microsoft.net.object.bytearray.base64
 value : The object must be serialized into a byte array
 : using a System.ComponentModel.TypeConverter
 : and then encoded with base64 encoding.

-->

```
<xsd:schema id="root" xmlns="" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
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</data>

```
<data name="button1.BackgroundImage" type="System.Drawing.Bitmap, System.Drawing"
mimetype="application/x-microsoft.net.object.bytearray.base64">
  <value>
```

```
iVBORw0KGgoAAAANSUhEUgAAADAAAAAwCAYAAABXAvmHAAAAAXNSR0IArs4c6QAAARnQU1BAACxjwv8
YQUAAAgY0hSTQAAeiYAAICEAAD6AAAAgOgAAHUwAADqYAAAOpgAABdwnLpRPAAABvBJREFUaEPtm0lT
lWUYxvuT+tS3RqfxQ/khpxpxmlETtwpEFBIlNNGjMYFpChpKLgTI4oIbiuLGoixKCgi4lLmV+5YLotnV
/XsOD0MndDLfozh6hnve7ZyX67rv616e5403Xn9eIQ9kL29QKFSu8eOXafLkfHeelXVAmxd09Fi/cweg
58/YoaSkQk2fsV4ZuTVaUNiorHVHlLvlhPIrzzhbXtCsBQuqlJG5R98lbdULJ+KBAXrAG9qva8dVaesF
afNv014733lJWn9aWverVPqLVNTa6UhBIhTa9uKIAH727K3027v031HjH1Ljdam5U+p4JLXrn9b60J7b
d7afk9Ycl/LtRlBbUX01a9PzJwH4efMqVLC1TtCmrP05u212zeyEXVTdsQgYYKz6rnSgywjY/WZ73mT3
So5JuT9JS7ZfcCRmxuc/H0kBNvCvqT2t+wam9+eUgdxtsjlqgAG5ukXK02retnCU/ByW1T5jCZEjf0rl
Z8Iklu695XJn5rhV0SdBEqLh45HojcldA1Z9OezdAyanjab5H9ukgo6wbDDyoPyitN9+TzQqjBQkF5Wd
ckVg4bAoRgLvYxUXH+rigwj32+U9I7DHwJV2g629FQa89lQ4kTeYx71tOi/V3AuT2GbnkAwTqlbC5yui
lxPU8+KmK9pr3r1pYPF470+7ASZJiQDA99j1RrtGOhjVqbdT+T2cGyQ4JAvbupQ0pUgJH2UELyU8//3K
Q9ppWUqlsf/ttN58UzprrqcCAX7tCSuZbH7gEEAulNZKe47tuhE2znkX54fMETV2TXtm5dS6Jhh4nli6
tME1o51XJFOI2iwJSVoSEUPvSAfweHu75QKVCIAc0Xy9ebrBfscRQ0JUKY4kNREhwnFxKzR9YCjYKECA
RoWn0C3AjlkkdhtYX2U8+AojCWCAA/iQfR87HGHC0/hXWEa8E2kiscSkfCcjunsg3Rr5QACv0owAhSwo
k1Qd16BMKgDfbZLCoxAAHKAB19ptVpSE+WueO4ImozojjKzSvt2mESPmBFdWPQFCjP7rrAIhE2o4ZZIx
AXJe4xDwHgcoXRnZnYwwJ8VugnyfZCZv6O5RIQDoVvMsIS87K60011LbqSA8Iyo0Ku95wHvgxlH2kx6z
tBH3IAVBosSRyDEERoUAtZsOSwQ4R0LFhgAyaJe84JnzZjd4a8A9oK1c3oyvu+9J+EhBflFRfXQIUBrp
sOQAgJEP9R4y6J/we+8jDbyLpwFrQ6mbk7yZ4tw9T8IPf5APPAeoBCRxSctd1/oJN8lK9YGA1w9DGWB4
jnS8bDx4+4kb+DDOIUFEIOEJHLbzqTNKNWzYtOCS2BNYXXPZSYeQKIYHnj9k8A+eb18IID3AQpgy383
AGJWcGQ/6YkChCFRe+226wNDhsQGS4AlISsqCFA6KXtUHioQEXgcATzsCQDcj96MULxDDKmRKxAorupw
BAYNeje4PuCbCbNQYfn9Nz0SBV+NnkSgrwhejFCOhCeQmlZmCZymmJgJwTSx3p0wN7PeraIon4wOSIVu
S3+ghEbmGK9AvXMA6fT1IQp4f+LEPA0ePDQ6BCDDeoBVFE3MJzQkIqsQ5AD186B3FeqLQNP1Oy55R40K
RQ88BAoK6tzOAqso+gDzf0v3gEYZRVA+EqFpX0qpNL4HREbhUucDZSysVGLiKqd9mlggM1BfLykv36b0
9I36+ptdjgQLERoZHzyXLRD2+RnZho+IqlsekJjOIZiyvdHlLg01H2HD36IUMnctqdAR5LTv7CkWBX
gqUg611mEbZQmqy8EhHfWf0cxJGcwCBB2aw5fdV5PiVlTXTAa/sHNhvEqqs6UXVVlcpZukSpqanKzMxU
QcEaLV5c7nYUWARSI+jilFZGCnqCj8ZhA+unt46NNzvdjgb7QsnJK6MLXpVDrTy8o0u5QxwBvA+BkSNH
OhLDh09wIFJSSkQJZIOlHQvWDgx2LFz23+pye0ebGs65XhLe1Nqs0aNTNenNScFqHt14z3vw97LfUsvM
```

```
gSpN+FCT4j9VfHz8v/4picciJD4+1zWiyL3RnJyDys6uU3qoWLGxU6OTrE8CXx73nhH4RPlpIReFx1UJ
iHijGeHlmJgxzno/C7zK/BfwhV/O0ur01c6LgQN4lhc+Dfjc7H0mgSn9h8D/AU/iPYvDAvvta/CBufIp
X/Ta80/psMC+/lJ7Hi/cqRjnZpvIDuublK/zv1T2m2rjQ8gYcHbdx2628ePBSwMeEgxhkDg5f6CbbV4q
8BBgmpw7d64SPhurorj33WzT72XTuwJkTsx0gxjTZNz4sVo2ZZqbbfqt5vsqX5BASpAYHTume7yd4uby
wMpdTF9UP6BeZQPKxDHv7Txn0f6fr/T7/wbuSE2kEln2egAAAABJRU5ErkJggg==
</value>
</data>
<metadata name="$this.TrayHeight" type="System.Int32, mscorlib, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089">
  <value>40</value>
</metadata>
</root>
```

frmCopyrighth.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

namespace Infanto
{
    public partial class frmCopyright : Form
    {
        public frmCopyright()
        {
            InitializeComponent();
        }

        private void frmCopyright_Load(object sender, EventArgs e)
        {
        }
    }
}
```

frmCopyrighth.designer.cs

```
namespace Infanto
{
    partial class frmCopyright
    {
        /// <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.lblCopyRight = new System.Windows.Forms.Label();
    this.label1 = new System.Windows.Forms.Label();
    this.label2 = new System.Windows.Forms.Label();
    this.label3 = new System.Windows.Forms.Label();
    this.SuspendLayout();
    //
    // lblCopyRight
    //
    this.lblCopyRight.AutoSize = true;
    this.lblCopyRight.Font = new System.Drawing.Font("Microsoft Sans Serif",
14.25F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point,
((byte) 0));
    this.lblCopyRight.Location = new System.Drawing.Point(92, 77);
    this.lblCopyRight.Name = "lblCopyRight";
    this.lblCopyRight.Size = new System.Drawing.Size(110, 24);
    this.lblCopyRight.TabIndex = 0;
    this.lblCopyRight.Text = "Infanto 2006";
    //
    // label1
    //
    this.label1.AutoSize = true;
    this.label1.Location = new System.Drawing.Point(49, 159);
    this.label1.Name = "label1";
    this.label1.Size = new System.Drawing.Size(182, 13);
    this.label1.TabIndex = 1;
    this.label1.Text = "Todos os Direitos Reservados - 2006";
    //
    // label2
    //
    this.label2.AutoSize = true;
    this.label2.Location = new System.Drawing.Point(105, 101);
    this.label2.Name = "label2";
    this.label2.Size = new System.Drawing.Size(77, 13);
    this.label2.TabIndex = 2;
    this.label2.Text = "Versão: Beta 1";
    //
    // label3
    //

```



```

        this.label3.AutoSize = true;
        this.label3.Location = new System.Drawing.Point(106, 115);
        this.label3.Name = "label3";
        this.label3.Size = new System.Drawing.Size(70, 13);
        this.label3.TabIndex = 3;
        this.label3.Text = "Nuno Seabra";
        //
        // frmCopyright
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.BackColor = System.Drawing.Color.CornflowerBlue;
        this.ClientSize = new System.Drawing.Size(292, 273);
        this.Controls.Add(this.label3);
        this.Controls.Add(this.label2);
        this.Controls.Add(this.label1);
        this.Controls.Add(this.lblCopyRight);
        this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.FixedDialog;
        this.HelpButton = true;
        this.MaximizeBox = false;
        this.MinimizeBox = false;
        this.Name = "frmCopyright";
        this.StartPosition = System.Windows.Forms.FormStartPosition.CenterParent;
        this.Text = "Copyright";
        this.Load += new System.EventHandler(this.frmCopyright_Load);
        this.ResumeLayout(false);
        this.PerformLayout();
    }

    #endregion

    private System.Windows.Forms.Label lblCopyRight;
    private System.Windows.Forms.Label label1;
    private System.Windows.Forms.Label label2;
    private System.Windows.Forms.Label label3;
}

frmCopyRigth.resx

namespace Infanto
{
    partial class frmCopyright
    {
        /// <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.lblCopyright = new System.Windows.Forms.Label();
        this.label1 = new System.Windows.Forms.Label();
        this.label2 = new System.Windows.Forms.Label();
        this.label3 = new System.Windows.Forms.Label();
        this.SuspendLayout();
        //
        // lblCopyright
        //
        this.lblCopyright.AutoSize = true;
        this.lblCopyright.Font = new System.Drawing.Font("Microsoft Sans Serif",
14.25F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point,
((byte) 0));
        this.lblCopyright.Location = new System.Drawing.Point(92, 77);
        this.lblCopyright.Name = "lblCopyright";
        this.lblCopyright.Size = new System.Drawing.Size(110, 24);
        this.lblCopyright.TabIndex = 0;
        this.lblCopyright.Text = "Infanto 2006";
        //
        // label1
        //
        this.label1.AutoSize = true;
        this.label1.Location = new System.Drawing.Point(49, 159);
        this.label1.Name = "label1";
        this.label1.Size = new System.Drawing.Size(182, 13);
        this.label1.TabIndex = 1;
        this.label1.Text = "Todos os Direitos Reservados - 2006";
        //
        // label2
        //
        this.label2.AutoSize = true;
        this.label2.Location = new System.Drawing.Point(105, 101);
        this.label2.Name = "label2";
        this.label2.Size = new System.Drawing.Size(77, 13);
        this.label2.TabIndex = 2;
        this.label2.Text = "Versão: Beta 1";
        //
        // label3
        //
        this.label3.AutoSize = true;
        this.label3.Location = new System.Drawing.Point(106, 115);
        this.label3.Name = "label3";
        this.label3.Size = new System.Drawing.Size(70, 13);
    }

```

```

        this.label3.TabIndex = 3;
        this.label3.Text = "Nuno Seabra";
        //
        // frmCopyright
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.BackColor = System.Drawing.Color.CornflowerBlue;
        this.ClientSize = new System.Drawing.Size(292, 273);
        this.Controls.Add(this.label3);
        this.Controls.Add(this.label2);
        this.Controls.Add(this.label1);
        this.Controls.Add(this.lblCopyRight);
        this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.FixedDialog;
        this.HelpButton = true;
        this.MaximizeBox = false;
        this.MinimizeBox = false;
        this.Name = "frmCopyright";
        this.StartPosition = System.Windows.Forms.FormStartPosition.CenterParent;
        this.Text = "Copyright";
        this.Load += new System.EventHandler(this.frmCopyright_Load);
        this.ResumeLayout(false);
        this.PerformLayout();

    }

    #endregion

    private System.Windows.Forms.Label lblCopyRight;
    private System.Windows.Forms.Label label1;
    private System.Windows.Forms.Label label2;
    private System.Windows.Forms.Label label3;
}

<?xml version="1.0" encoding="utf-8"?>
<root>
  <!--
    Microsoft ResX Schema

    Version 2.0

    The primary goals of this format is to allow a simple XML format
    that is mostly human readable. The generation and parsing of the
    various data types are done through the TypeConverter classes
    associated with the data types.

    Example:

    ... ado.net/XML headers & schema ...
    <resheader name="resmimetype">text/microsoft-resx</resheader>
    <resheader name="version">2.0</resheader>
    <resheader name="reader">System.Resources.ResXResourceReader, System.Windows.Forms,
...</resheader>
    <resheader name="writer">System.Resources.ResXResourceWriter, System.Windows.Forms,
...</resheader>

```

```
<data name="Name1"><value>this is my long string</value><comment>this is a
comment</comment></data>
<data name="Color1" type="System.Drawing.Color, System.Drawing">Blue</data>
<data name="Bitmap1" mimetype="application/x-microsoft.net.object.binary.base64">
  <value>[base64 mime encoded serialized .NET Framework object]</value>
</data>
<data name="Icon1" type="System.Drawing.Icon, System.Drawing"
mimetype="application/x-microsoft.net.object.bytearray.base64">
  <value>[base64 mime encoded string representing a byte array form of the .NET
Framework object]</value>
  <comment>This is a comment</comment>
</data>
```

There are any number of "resheader" rows that contain simple name/value pairs.

Each data row contains a name, and value. The row also contains a type or mimetype. Type corresponds to a .NET class that support text/value conversion through the TypeConverter architecture. Classes that don't support this are serialized and stored with the mimetype set.

The mimetype is used for serialized objects, and tells the ResXResourceReader how to depersist the object. This is currently not extensible. For a given mimetype the value must be set accordingly:

Note - application/x-microsoft.net.object.binary.base64 is the format that the ResXResourceWriter will generate, however the reader can read any of the formats listed below.

```
mimetype: application/x-microsoft.net.object.binary.base64
value : The object must be serialized with
       : System.Runtime.Serialization.Formatters.Binary.BinaryFormatter
       : and then encoded with base64 encoding.
```

```
mimetype: application/x-microsoft.net.object.soap.base64
value : The object must be serialized with
       : System.Runtime.Serialization.Formatters.Soap.SoapFormatter
       : and then encoded with base64 encoding.
```

```
mimetype: application/x-microsoft.net.object.bytearray.base64
value : The object must be serialized into a byte array
       : using a System.ComponentModel.TypeConverter
       : and then encoded with base64 encoding.
```

-->

```
<xsd:schema id="root" xmlns="" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
  <xsd:import namespace="http://www.w3.org/XML/1998/namespace" />
  <xsd:element name="root" msdata:IsDataSet="true">
    <xsd:complexType>
      <xsd:choice maxOccurs="unbounded">
        <xsd:element name="metadata">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="value" type="xsd:string" minOccurs="0" />
            </xsd:sequence>
            <xsd:attribute name="name" use="required" type="xsd:string" />
          </xsd:complexType>
        </xsd:element>
      </xsd:choice>
    </xsd:element>
  </xsd:complexType>
</xsd:schema>
```

```

        <xsd:attribute name="type" type="xsd:string" />
        <xsd:attribute name="mimetype" type="xsd:string" />
        <xsd:attribute ref="xml:space" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="assembly">
    <xsd:complexType>
        <xsd:attribute name="alias" type="xsd:string" />
        <xsd:attribute name="name" type="xsd:string" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="data">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="value" type="xsd:string" minOccurs="0"
msdata:Ordinal="1" />
            <xsd:element name="comment" type="xsd:string" minOccurs="0"
msdata:Ordinal="2" />
        </xsd:sequence>
        <xsd:attribute name="name" type="xsd:string" use="required"
msdata:Ordinal="1" />
        <xsd:attribute name="type" type="xsd:string" msdata:Ordinal="3" />
        <xsd:attribute name="mimetype" type="xsd:string" msdata:Ordinal="4" />
        <xsd:attribute ref="xml:space" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="resheader">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="value" type="xsd:string" minOccurs="0"
msdata:Ordinal="1" />
        </xsd:sequence>
        <xsd:attribute name="name" type="xsd:string" use="required" />
    </xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:complexType>
</xsd:element>
</xsd:schema>
<resheader name="resmimetype">
    <value>text/microsoft-resx</value>
</resheader>
<resheader name="version">
    <value>2.0</value>
</resheader>
<resheader name="reader">
    <value>System.Resources.ResXResourceReader, System.Windows.Forms, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089</value>
</resheader>
<resheader name="writer">
    <value>System.Resources.ResXResourceWriter, System.Windows.Forms, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089</value>
</resheader>
</root>

```

frmFactura.cs

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;
using OpeControls;

namespace Infanto
{
    public partial class frmFactura : Form
    {
        OpeControl oC = new OpeControl();

        public frmFactura()
        {
            InitializeComponent();

            private void tmrFactura_Tick(object sender, EventArgs e)
            {
                DateTime hora = DateTime.Now ;
                tsslTimer.Text = hora.TimeOfDay.ToString();
            }

            private void frmFactura_Load(object sender, EventArgs e)
            {
                dgvLinFac.Columns.Add("ref", "Referência");
                dgvLinFac.Columns.Add("descricao", "Descricao");
                dgvLinFac.Columns.Add("qtt", "Quantidade");
                dgvLinFac.Columns.Add("ePreco", "Preço");
                dgvLinFac.Columns.Add("ePreXQtt", "Total x Qtt");
                dgvLinFac.Columns.Add("desPer", "Desconto");
                dgvLinFac.Columns.Add("eValDes", "Valor Desconto");
                dgvLinFac.Columns.Add("eIva", "Valor Iva");
                dgvLinFac.Columns.Add("ivaInc", "Iva Incluído");
                dgvLinFac.Columns.Add("eTotLin", "Total Linha");

                dgvLinFac.ReadOnly = true;
                dgvLinFac.Enabled = false;
                //BVisible(false);
                FrmCtrlsD();
            }

            private void BVisible(Boolean operacao)
            {
                btnGravar.Visible = operacao;
                btnCancelar.Visible = operacao;
            }

            private void FrmCtrlsD()
            {
                oC.OperacoesControls(this, "visible", 0, "Button");
                oC.OperacoesControls(this, "enable", 0, "TextBox");
            }
        }
    }
}

```

```

    }

    private void FrmCtlSE()
    {
        oC.OperacoesControls(this, "visible", 1, "Button");
        oC.OperacoesControls(this, "enable", 1, "TextBox");
    }

    private void tsbNovo_Click(object sender, EventArgs e)
    {
        FrmCtlSE();
        dgvLinFac.Enabled = true;
        dgvLinFac.ReadOnly = false;
    }

    private void btnCancelar_Click(object sender, EventArgs e)
    {
        FrmCtlSD();
        dgvLinFac.Enabled = false;
        dgvLinFac.ReadOnly = true;
    }
}

```

frmFactura.Designer.cs

```

namespace Infanto
{
    partial class frmFactura
    {
        /// <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.components = new System.ComponentModel.Container();
    System.ComponentModel.ComponentResourceManager resources = new
System.ComponentModel.ComponentResourceManager(typeof(frmFactura));
    this.ssFactura = new System.Windows.Forms.StatusStrip();
    this.tsslGenStatus = new System.Windows.Forms.ToolStripStatusLabel();
    this.tsslTime = new System.Windows.Forms.ToolStripStatusLabel();
    this.tsslTimer = new System.Windows.Forms.ToolStripStatusLabel();
    this.toolStripStatusLabel1 = new
System.Windows.Forms.ToolStripStatusLabel();
    this.hpFactura = new System.Windows.Forms.HelpProvider();
    this.tpFactura = new System.Windows.Forms.ToolTip(this.components);
    this.tmrFactura = new System.Windows.Forms.Timer(this.components);
    this.btnCancelar = new System.Windows.Forms.Button();
    this.btnGravar = new System.Windows.Forms.Button();
    this.tsProfissao = new System.Windows.Forms.ToolStrip();
    this.tsdbProcurar = new System.Windows.Forms.ToolStripDropDownButton();
    this.tsbNovo = new System.Windows.Forms.ToolStripButton();
    this.tsbApagar = new System.Windows.Forms.ToolStripButton();
    this.tsdbOpcDiv = new System.Windows.Forms.ToolStripDropDownButton();
    this.tsbMapas = new System.Windows.Forms.ToolStripButton();
    this.tsbAjuda = new System.Windows.Forms.ToolStripButton();
    this.label1 = new System.Windows.Forms.Label();
    this.dateTimePicker1 = new System.Windows.Forms.DateTimePicker();
    this.txtNFactura = new System.Windows.Forms.TextBox();
    this.label2 = new System.Windows.Forms.Label();
    this.txtNALuno = new System.Windows.Forms.TextBox();
    this.label3 = new System.Windows.Forms.Label();
    this.label4 = new System.Windows.Forms.Label();
    this.txtNomAlun = new System.Windows.Forms.TextBox();
    this.dgvLinFac = new System.Windows.Forms.DataGridView();
    this.txtETotBru = new System.Windows.Forms.TextBox();
    this.txtEIva = new System.Windows.Forms.TextBox();
    this.txtETotal = new System.Windows.Forms.TextBox();
    this.label5 = new System.Windows.Forms.Label();
    this.label6 = new System.Windows.Forms.Label();
    this.label7 = new System.Windows.Forms.Label();
    this.cbbTxIva = new System.Windows.Forms.ComboBox();
    this.label8 = new System.Windows.Forms.Label();
    this.label9 = new System.Windows.Forms.Label();
    this.mtbDesconto = new System.Windows.Forms.MaskedTextBox();
    this.ssFactura.SuspendLayout();
    this.tsProfissao.SuspendLayout();
    ((System.ComponentModel.ISupportInitialize)(this.dgvLinFac)).BeginInit();
    this.SuspendLayout();
    //
    // ssFactura
    //
    this.ssFactura.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {
    this.tsslGenStatus,
    this.tsslTime,
    this.tsslTimer,
    this.toolStripStatusLabel1});
    this.ssFactura.Location = new System.Drawing.Point(0, 553);
    this.ssFactura.Name = "ssFactura";
    this.ssFactura.Size = new System.Drawing.Size(861, 22);

```

```
this.ssFactura.TabIndex = 0;
this.ssFactura.Text = "statusStrip1";
//
// tsslGenStatus
//
this.tsslGenStatus.Name = "tsslGenStatus";
this.tsslGenStatus.Size = new System.Drawing.Size(39, 17);
this.tsslGenStatus.Text = "Pronto";
//
// tsslTime
//
this.tsslTime.BorderStyle = System.Windows.Forms.Border3DStyle.RaisedOuter;
this.tsslTime.Name = "tsslTime";
this.tsslTime.Size = new System.Drawing.Size(0, 17);
//
// tsslTimer
//
this.tsslTimer.Name = "tsslTimer";
this.tsslTimer.Size = new System.Drawing.Size(0, 17);
//
// toolStripStatusLabel1
//
this.toolStripStatusLabel1.Name = "toolStripStatusLabel1";
this.toolStripStatusLabel1.Size = new System.Drawing.Size(109, 17);
this.toolStripStatusLabel1.Text = "toolStripStatusLabel1";
//
// tmrFactura
//
this.tmrFactura.Interval = 1000;
this.tmrFactura.Tick += new System.EventHandler(this.tmrFactura_Tick);
//
// btnCancelar
//
this.btnCancelar.Location = new System.Drawing.Point(751, 521);
this.btnCancelar.Name = "btnCancelar";
this.btnCancelar.Size = new System.Drawing.Size(75, 23);
this.btnCancelar.TabIndex = 10;
this.btnCancelar.Text = "&Cancelar";
this.btnCancelar.UseVisualStyleBackColor = true;
this.btnCancelar.Click += new System.EventHandler(this.btnCancelar_Click);
//
// btnGravar
//
this.btnGravar.Location = new System.Drawing.Point(660, 521);
this.btnGravar.Name = "btnGravar";
this.btnGravar.Size = new System.Drawing.Size(75, 23);
this.btnGravar.TabIndex = 9;
this.btnGravar.Text = "&Gravar";
this.btnGravar.UseVisualStyleBackColor = true;
//
// tsProfissao
//
this.tsProfissao.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {
this.tsdbProcurar,
this.tsbNovo,
this.tsbApagar,
this.tsdbOpcDiv,
```



```

        this.tsbMapas,
        this.tsbAjuda});
        this.tsProfissao.Location = new System.Drawing.Point(0, 0);
        this.tsProfissao.Name = "tsProfissao";
        this.tsProfissao.Size = new System.Drawing.Size(861, 25);
        this.tsProfissao.TabIndex = 11;
        this.tsProfissao.Text = "toolStrip1";
        //
        // tsdbProcurar
        //
        this.tsdbProcurar.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsdbProcurar.Image =
((System.Drawing.Image)(resources.GetObject("tsdbProcurar.Image")));
        this.tsdbProcurar.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsdbProcurar.Name = "tsdbProcurar";
        this.tsdbProcurar.Size = new System.Drawing.Size(29, 22);
        this.tsdbProcurar.Text = "toolStripDropDownButton1";
        //
        // tsbNovo
        //
        this.tsbNovo.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbNovo.Image =
((System.Drawing.Image)(resources.GetObject("tsbNovo.Image")));
        this.tsbNovo.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbNovo.Name = "tsbNovo";
        this.tsbNovo.Size = new System.Drawing.Size(23, 22);
        this.tsbNovo.Text = "toolStripButton1";
        this.tsbNovo.Click += new System.EventHandler(this.tsbNovo_Click);
        //
        // tsbApagar
        //
        this.tsbApagar.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbApagar.Image =
((System.Drawing.Image)(resources.GetObject("tsbApagar.Image")));
        this.tsbApagar.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbApagar.Name = "tsbApagar";
        this.tsbApagar.Size = new System.Drawing.Size(23, 22);
        this.tsbApagar.Text = "toolStripButton1";
        //
        // tsdbOpcDiv
        //
        this.tsdbOpcDiv.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsdbOpcDiv.Image =
((System.Drawing.Image)(resources.GetObject("tsdbOpcDiv.Image")));
        this.tsdbOpcDiv.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsdbOpcDiv.Name = "tsdbOpcDiv";
        this.tsdbOpcDiv.Size = new System.Drawing.Size(29, 22);
        this.tsdbOpcDiv.Text = "toolStripDropDownButton1";
        //
        // tsbMapas
        //
        this.tsbMapas.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;

```

```

        this.tsbMapas.Image =
((System.Drawing.Image) (resources.GetObject("tsbMapas.Image")));
        this.tsbMapas.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbMapas.Name = "tsbMapas";
        this.tsbMapas.Size = new System.Drawing.Size(23, 22);
        this.tsbMapas.Text = "toolStripButton1";
        //
        // tsbAjuda
        //
        this.tsbAjuda.DisplayStyle =
System.Windows.Forms.ToolStripItemDisplayStyle.Image;
        this.tsbAjuda.Image =
((System.Drawing.Image) (resources.GetObject("tsbAjuda.Image")));
        this.tsbAjuda.ImageTransparentColor = System.Drawing.Color.Magenta;
        this.tsbAjuda.Name = "tsbAjuda";
        this.tsbAjuda.Size = new System.Drawing.Size(23, 22);
        this.tsbAjuda.Text = "toolStripButton1";
        //
        // label1
        //
        this.label1.AutoSize = true;
        this.label1.Location = new System.Drawing.Point(182, 47);
        this.label1.Name = "label1";
        this.label1.Size = new System.Drawing.Size(33, 13);
        this.label1.TabIndex = 12;
        this.label1.Text = "Data:";
        //
        // dateTimePicker1
        //
        this.dateTimePicker1.Format =
System.Windows.Forms.DateTimePickerFormat.Short;
        this.dateTimePicker1.Location = new System.Drawing.Point(217, 44);
        this.dateTimePicker1.Name = "dateTimePicker1";
        this.dateTimePicker1.Size = new System.Drawing.Size(83, 20);
        this.dateTimePicker1.TabIndex = 13;
        //
        // txtNFactura
        //
        this.txtNFactura.Location = new System.Drawing.Point(75, 43);
        this.txtNFactura.Name = "txtNFactura";
        this.txtNFactura.Size = new System.Drawing.Size(100, 20);
        this.txtNFactura.TabIndex = 14;
        //
        // label2
        //
        this.label2.AutoSize = true;
        this.label2.Location = new System.Drawing.Point(9, 45);
        this.label2.Name = "label2";
        this.label2.Size = new System.Drawing.Size(64, 13);
        this.label2.TabIndex = 15;
        this.label2.Text = "N.º Factura:";
        //
        // txtNALuno
        //
        this.txtNALuno.Location = new System.Drawing.Point(75, 66);
        this.txtNALuno.Name = "txtNALuno";
        this.txtNALuno.Size = new System.Drawing.Size(100, 20);

```

```

this.txtNAluno.TabIndex = 16;
//
// label3
//
this.label3.AutoSize = true;
this.label3.Location = new System.Drawing.Point(18, 69);
this.label3.Name = "label3";
this.label3.Size = new System.Drawing.Size(55, 13);
this.label3.TabIndex = 17;
this.label3.Text = "N.º Aluno:";
//
// label4
//
this.label4.AutoSize = true;
this.label4.Location = new System.Drawing.Point(180, 70);
this.label4.Name = "label4";
this.label4.Size = new System.Drawing.Size(68, 13);
this.label4.TabIndex = 19;
this.label4.Text = "Nome Aluno:";
//
// txtNomAlun
//
this.txtNomAlun.Location = new System.Drawing.Point(249, 67);
this.txtNomAlun.Name = "txtNomAlun";
this.txtNomAlun.Size = new System.Drawing.Size(381, 20);
this.txtNomAlun.TabIndex = 18;
//
// dgvLinFac
//
this.dgvLinFac.ColumnHeadersHeightSizeMode =
System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;
this.dgvLinFac.Location = new System.Drawing.Point(15, 129);
this.dgvLinFac.Name = "dgvLinFac";
this.dgvLinFac.Size = new System.Drawing.Size(829, 300);
this.dgvLinFac.TabIndex = 30;
//
// txtETotBru
//
this.txtETotBru.Enabled = false;
this.txtETotBru.Location = new System.Drawing.Point(720, 443);
this.txtETotBru.Name = "txtETotBru";
this.txtETotBru.Size = new System.Drawing.Size(100, 20);
this.txtETotBru.TabIndex = 31;
//
// txtEIva
//
this.txtEIva.Enabled = false;
this.txtEIva.Location = new System.Drawing.Point(720, 466);
this.txtEIva.Name = "txtEIva";
this.txtEIva.Size = new System.Drawing.Size(100, 20);
this.txtEIva.TabIndex = 32;
//
// txtETotal
//
this.txtETotal.Enabled = false;
this.txtETotal.Location = new System.Drawing.Point(720, 490);
this.txtETotal.Name = "txtETotal";

```

```

this.txtETotal.Size = new System.Drawing.Size(100, 20);
this.txtETotal.TabIndex = 33;
//
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(632, 446);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(86, 13);
this.label5.TabIndex = 34;
this.label5.Text = "Base Incidência:";
//
// label6
//
this.label6.AutoSize = true;
this.label6.Location = new System.Drawing.Point(666, 470);
this.label6.Name = "label6";
this.label6.Size = new System.Drawing.Size(52, 13);
this.label6.TabIndex = 35;
this.label6.Text = "Valor Iva:";
//
// label7
//
this.label7.AutoSize = true;
this.label7.Location = new System.Drawing.Point(684, 493);
this.label7.Name = "label7";
this.label7.Size = new System.Drawing.Size(34, 13);
this.label7.TabIndex = 36;
this.label7.Text = "Total:";
//
// cbbTxIva
//
this.cbbTxIva.AutoCompleteCustomSource.AddRange(new string[] {
    "0,00",
    "5,00",
    "12,00",
    "21,00",
    ""});
this.cbbTxIva.FormattingEnabled = true;
this.cbbTxIva.Items.AddRange(new object[] {
    "0,00",
    "5,00",
    "12,00",
    "21,00"});
this.cbbTxIva.Location = new System.Drawing.Point(75, 89);
this.cbbTxIva.Name = "cbbTxIva";
this.cbbTxIva.Size = new System.Drawing.Size(64, 21);
this.cbbTxIva.TabIndex = 37;
//
// label8
//
this.label8.AutoSize = true;
this.label8.Location = new System.Drawing.Point(31, 93);
this.label8.Name = "label8";
this.label8.Size = new System.Drawing.Size(42, 13);
this.label8.TabIndex = 38;
this.label8.Text = "Tx.IVA:";

```

```
//
// label9
//
this.label9.AutoSize = true;
this.label9.Location = new System.Drawing.Point(180, 95);
this.label9.Name = "label9";
this.label9.Size = new System.Drawing.Size(67, 13);
this.label9.TabIndex = 40;
this.label9.Text = "Desconto %:";
//
// mtbDesconto
//
this.mtbDesconto.Location = new System.Drawing.Point(250, 91);
this.mtbDesconto.Mask = "000,00";
this.mtbDesconto.Name = "mtbDesconto";
this.mtbDesconto.Size = new System.Drawing.Size(39, 20);
this.mtbDesconto.TabIndex = 41;
//
// frmFactura
//
this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this.ClientSize = new System.Drawing.Size(861, 575);
this.Controls.Add(this.mtbDesconto);
this.Controls.Add(this.label9);
this.Controls.Add(this.label8);
this.Controls.Add(this.cbbTxIva);
this.Controls.Add(this.label7);
this.Controls.Add(this.label6);
this.Controls.Add(this.label5);
this.Controls.Add(this.txtETotal);
this.Controls.Add(this.txtEIva);
this.Controls.Add(this.txtETotBru);
this.Controls.Add(this.dgvLinFac);
this.Controls.Add(this.label4);
this.Controls.Add(this.txtNomAlun);
this.Controls.Add(this.label3);
this.Controls.Add(this.txtNALuno);
this.Controls.Add(this.label2);
this.Controls.Add(this.txtNFactura);
this.Controls.Add(this.dateTimePicker1);
this.Controls.Add(this.label1);
this.Controls.Add(this.tsProfissao);
this.Controls.Add(this.btnCancelar);
this.Controls.Add(this.btnGravar);
this.Controls.Add(this.ssFactura);
this.Name = "frmFactura";
this.StartPosition = System.Windows.Forms.FormStartPosition.CenterParent;
this.Text = "Factura";
this.Load += new System.EventHandler(this.frmFactura_Load);
this.ssFactura.ResumeLayout(false);
this.ssFactura.PerformLayout();
this.tsProfissao.ResumeLayout(false);
this.tsProfissao.PerformLayout();
((System.ComponentModel.ISupportInitialize)(this.dgvLinFac)).EndInit();
this.ResumeLayout(false);
this.PerformLayout();
```

```

    }

    #endregion

    private System.Windows.Forms.StatusStrip ssFactura;
    private System.Windows.Forms.HelpProvider hpFactura;
    private System.Windows.Forms.ToolTip tpFactura;
    private System.Windows.Forms.ToolStripStatusLabel tsslGenStatus;
    private System.Windows.Forms.ToolStripStatusLabel tsslTime;
    private System.Windows.Forms.Timer tmrFactura;
    private System.Windows.Forms.ToolStripStatusLabel tsslTimer;
    private System.Windows.Forms.ToolStripStatusLabel toolStripStatusLabel1;
    private System.Windows.Forms.Button btnCancel;
    private System.Windows.Forms.Button btnGravar;
    private System.Windows.Forms.ToolStrip tsProfissao;
    private System.Windows.Forms.ToolStripDropDownButton tsdbProcurar;
    private System.Windows.Forms.ToolStripButton tsbNovo;
    private System.Windows.Forms.ToolStripButton tsbApagar;
    private System.Windows.Forms.ToolStripDropDownButton tsdbOpcDiv;
    private System.Windows.Forms.ToolStripButton tsbMapas;
    private System.Windows.Forms.ToolStripButton tsbAjuda;
    private System.Windows.Forms.Label label1;
    private System.Windows.Forms.DateTimePicker dateTimePicker1;
    private System.Windows.Forms.TextBox txtNFactura;
    private System.Windows.Forms.Label label2;
    private System.Windows.Forms.TextBox txtNAluno;
    private System.Windows.Forms.Label label3;
    private System.Windows.Forms.Label label4;
    private System.Windows.Forms.TextBox txtNomAlun;
    private System.Windows.Forms.DataGridView dgvLinFac;
    private System.Windows.Forms.TextBox txtETotBru;
    private System.Windows.Forms.TextBox txtEIva;
    private System.Windows.Forms.TextBox txtETotal;
    private System.Windows.Forms.Label label5;
    private System.Windows.Forms.Label label6;
    private System.Windows.Forms.Label label7;
    private System.Windows.Forms.ComboBox cbbTxIva;
    private System.Windows.Forms.Label label8;
    private System.Windows.Forms.Label label9;
    private System.Windows.Forms.MaskedTextBox mtbDesconto;
}
}

```

frmFactura.resx

```

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

```

Microsoft ResX Schema

Version 2.0

The primary goals of this format is to allow a simple XML format that is mostly human readable. The generation and parsing of the various data types are done through the TypeConverter classes associated with the data types.

Example:

```
... ado.net/XML headers & schema ...
<resheader name="resmime" type="text/microsoft-resx"></resheader>
<resheader name="version">2.0</resheader>
<resheader name="reader">System.Resources.ResXResourceReader, System.Windows.Forms,
...</resheader>
<resheader name="writer">System.Resources.ResXResourceWriter, System.Windows.Forms,
...</resheader>
<data name="Name1"><value>this is my long string</value><comment>this is a
comment</comment></data>
<data name="Color1" type="System.Drawing.Color, System.Drawing">Blue</data>
<data name="Bitmap1" mime="application/x-microsoft.net.object.binary.base64">
<value>[base64 mime encoded serialized .NET Framework object]</value>
</data>
<data name="Icon1" type="System.Drawing.Icon, System.Drawing"
mime="application/x-microsoft.net.object.binary.base64">
<value>[base64 mime encoded string representing a byte array form of the .NET
Framework object]</value>
<comment>This is a comment</comment>
</data>
```

There are any number of "resheader" rows that contain simple name/value pairs.

Each data row contains a name, and value. The row also contains a type or mime. Type corresponds to a .NET class that support text/value conversion through the TypeConverter architecture. Classes that don't support this are serialized and stored with the mime set.

The mime is used for serialized objects, and tells the ResXResourceReader how to depersist the object. This is currently not extensible. For a given mime the value must be set accordingly:

Note - application/x-microsoft.net.object.binary.base64 is the format that the ResXResourceWriter will generate, however the reader can read any of the formats listed below.

```
mime: application/x-microsoft.net.object.binary.base64
value : The object must be serialized with
       : System.Runtime.Serialization.Formatters.Binary.BinaryFormatter
       : and then encoded with base64 encoding.
```

```
mime: application/x-microsoft.net.object.soap.base64
value : The object must be serialized with
       : System.Runtime.Serialization.Formatters.Soap.SoapFormatter
       : and then encoded with base64 encoding.
```

```
mime: application/x-microsoft.net.object.binary.base64
value : The object must be serialized into a byte array
       : using a System.ComponentModel.TypeConverter
       : and then encoded with base64 encoding.
```

-->

```
<xsd:schema id="root" xmlns="" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
```

```

<xsd:import namespace="http://www.w3.org/XML/1998/namespace" />
<xsd:element name="root" msdata:IsDataSet="true">
  <xsd:complexType>
    <xsd:choice maxOccurs="unbounded">
      <xsd:element name="metadata">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="value" type="xsd:string" minOccurs="0" />
          </xsd:sequence>
          <xsd:attribute name="name" use="required" type="xsd:string" />
          <xsd:attribute name="type" type="xsd:string" />
          <xsd:attribute name="mimetype" type="xsd:string" />
          <xsd:attribute ref="xml:space" />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="assembly">
        <xsd:complexType>
          <xsd:attribute name="alias" type="xsd:string" />
          <xsd:attribute name="name" type="xsd:string" />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="data">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="value" type="xsd:string" minOccurs="0"
msdata:Ordinal="1" />
            <xsd:element name="comment" type="xsd:string" minOccurs="0"
msdata:Ordinal="2" />
          </xsd:sequence>
          <xsd:attribute name="name" type="xsd:string" use="required"
msdata:Ordinal="1" />
          <xsd:attribute name="type" type="xsd:string" msdata:Ordinal="3" />
          <xsd:attribute name="mimetype" type="xsd:string" msdata:Ordinal="4" />
          <xsd:attribute ref="xml:space" />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="resheader">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="value" type="xsd:string" minOccurs="0"
msdata:Ordinal="1" />
          </xsd:sequence>
          <xsd:attribute name="name" type="xsd:string" use="required" />
        </xsd:complexType>
      </xsd:element>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
</xsd:schema>
<resheader name="resmimetype">
  <value>text/microsoft-resx</value>
</resheader>
<resheader name="version">
  <value>2.0</value>
</resheader>
<resheader name="reader">

```



```

    <value>System.Resources.ResXResourceReader, System.Windows.Forms, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089</value>
  </resheader>
  <resheader name="writer">
    <value>System.Resources.ResXResourceWriter, System.Windows.Forms, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089</value>
  </resheader>
  <metadata name="ssFactura.TrayLocation" type="System.Drawing.Point, System.Drawing,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>17, 17</value>
  </metadata>
  <metadata name="hpFactura.TrayLocation" type="System.Drawing.Point, System.Drawing,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>226, 17</value>
  </metadata>
  <metadata name="tpFactura.TrayLocation" type="System.Drawing.Point, System.Drawing,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>346, 17</value>
  </metadata>
  <metadata name="tmrFactura.TrayLocation" type="System.Drawing.Point, System.Drawing,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>451, 17</value>
  </metadata>
  <metadata name="tsProfissao.TrayLocation" type="System.Drawing.Point, System.Drawing,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a">
    <value>563, 17</value>
  </metadata>
  <assembly alias="System.Drawing" name="System.Drawing, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" />
  <data name="tsdbProcurar.Image" type="System.Drawing.Bitmap, System.Drawing"
mimetype="application/x-microsoft.net.object.bytearray.base64">
    <value>

iVBORw0KGgoAAAANSUheUgAAABAAAAAQCAAAAAf8/9hAAAAAXNSR0IArs4c6QAAARnQU1BAACxjwv8
YQUAAAAgY0hSTQAAeiYAAICEAAD6AAAAgOgAAHUwAADqYAAAOpgAABdwnLpRPAAAAddJREFUOE+dk99L
U2Ecxo/9BdJfFNrfkBcLvBB3vSvbDyS6OInlOocRGE09KEZm5izWD9LFxmQ4ZbEfKaLbUhZSmI115gW
rj593zPqxrOlvfBcHT7P83y/73t6tC4nldqmWD3UD05aWm/vee3ccUurFiOa2+3u6cZZ317HCuxU6uwf
Q/Y7xL7CSgOm801uj0fpaqCSk6Ua6nw+gkQV5nchsgfxA5hdb+D13uls8mqpTPYQtr5BVKBEHZJNWP0B
y2K4It/0uwuYpmlvMpOokBYg+lGqS5GsNNkSvRMVRGstGJ/P4HK57A0exNsGczvt5E2BKikZhE+iomjy
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