Министерство образования и науки Российской Федерации

###### Филиал федерального государственного автономного образовательного учреждения

###### высшего образования

###### «Южно-Уральский государственный университет»

(национальный исследовательский университет)

###### в г. Нижневартовске

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| Кафедра | Информатика |
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Создание матрицы распределения обязанностей

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(наименование темы)

**ПОЯСНИТЕЛЬНАЯ ЗАПИСКА**

**К КУРСОВОй Работе**

|  |  |
| --- | --- |
| по дисциплине | Визуальное программирование |
|  | |

ЮУрГУ-09.03.04.2017.65 ПЗ КР

Нормоконтролер, (должность)

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Проект защищен

с оценкой *(прописью, цифрой)*

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Нижневартовск 2017

АННОТАЦИЯ

***ЮУрГУ Кафедра Информатики***

*Лист*

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## НвФл-322. 09.03.04.2017.65 ПЗ КР

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*Листов*

*Парасич*

*Тутубалин*

*Реценз.*

*Утв.*

*Разраб.*

Тутубалин И.С. Визуальное программирование. Нижневартовск: филиал ЮУрГУ; 2017, 12 с. библиогр. список – 5 наим

Цель: целью работы является разработка объектно-ориентированной программы на языке программирования Delphi.

Задачи:

Задание: написать программу, предназначенную для комфортной и удобной разработки в команде программного продукта. Программа должна позволять контролировать и оценивать выполняемую работу разработчиков. С ее помощью должно быть возможно описывать задания и назначать их конкретному разработчику.

ОГЛАВЛЕНИЕ

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ВВЕДЕНИЕ

Матрица распределения обязанностей – самостоятельная компьютерная программа, предназначенная для распределения заданий между членами команды.

Матрица распределения обязанностей позволяет:

* Создавать, редактировать, назначать и удалять задания;
* Авторизоваться при входе в систему, что обеспечивает сокрытие данных;
* Сортировка заданий по статусу;
* Просмотр и редактирование информации пользователя;
* Просмотр графиков выполнения заданий.

Матрица распределения обязанностей имеет:

* Вкладки: задания, пользователь, статистика, об авторе;
* Во вкладке «задания» имеется: панель инструментов, контекстное меню и две таблицы (пользователей и заданий);
* Во вкладке «пользователь» расположена информация о пользователе, которую можно редактировать;
* Во вкладке «статистика» имеется два графика (график выполнения заданий и оценки заданий) и таблица пользователей;
* Во вкладке «об авторе» расположена информация об авторе.

1. ОПИСАНИЕ ПРОГРАММЫ

Список используемых компонентов Delphi 2010

|  |  |
| --- | --- |
| Компонент | Описание |
| ActionManager | Список действий. Служит для централизованной реакции программы на действия пользователя, связанные с выбором одного из группы однотипных управляющих элементов, таких как опции меню, кнопки и т.д. |
| RichEdit | Многострочный редактор форматированного текста. В отличие от компонента Memo может изменять такие характеристики текста как шрифт, цвет, выравнивание и т.д. |
| StatusBar | Панель статуса предназначена для размещения разного рода служебной информации в окнах редактирования. Пример – нижняя часть рамки окна текстового редактора Word |
| ImageList | Набор рисунков. Представляет собой хранилище для нескольких рисунков одинакового размера, например, пиктограмм для кнопок. |
| MainMenu | Основная панель меню. Отображает меню и подменю пунктов. |
| ActionToolBar | Панель инструментов. Отображает действия как кнопки на панели инструментов |
| Button | Командная кнопка. Используется для реализации в программе команд с помощью обработчика события OnClick этого компонента. |
| SaveTextFileDialog | Диалог сохранения файла в текстовом формате. Отображает диалог для сохранения файла с возможностью выбора директории, имени файла, расширения и кодировки. |
| OpenTextFileDialog | Диалог открытия файла в текстовом формате. Отображает диалог для открытия файла с возможностью выбора директории, имени файла, расширения и кодировки. |
| FontDialog | Диалог выбора шрифта. Отображает диалог форматирования шрифта с выбором шрифта, размера, цвета, начертания, видоизменения и набора символов, а также с отображением образца выбранных параметров. |

Список используемых объектов действий:

* New - создает новый файл(предлагает сохранить файл если он был изменен)
* Open - открывает ранее созданный файл(предлагает сохранить файл если он был изменен)
* Save As - сохраняет файл.
* Page Setup - изменяет параметры страницы.
* Print Setup - распечатывает страницы на принтере.
* Replace - находит в тексте слова и заменяет их на другие.
* Find - находит в тексте слова.
* Exit - выходит из программы(предлагает сохранить файл если он был изменен)
* Delete - удаляет выделенные символы.
* Undo - восстанавливает одно изменение.
* Select all - выделяет весь текст.
* Past - вставляет скопированный в буфер обмена текст.
* Copy - копирует выделенный текст в буфер обмена.
* Cut - копирует выделенный текс в буфер обмена и удаляет его.
* Align left - выравнивает текст по левому краю.
* Center - выравнивает текст по центру.
* Align Right - выравнивает текст по правому краю.
* Bullets - создает список.
* Strikeout - изменяет шрифт на зачеркнутый.
* Underline - изменяет шрифт на подчеркнутый.
* Italic - изменяет шрифт на курсивный.
* Bold - изменяет шрифт на жирный.
* More Buttons - позволяет убрать или вернуть кнопки.
* About - выводит форму на которой отображены данная версия программы, авторские права и название программы.
* FileOpen1Accept - производится запрос на сохранение изменений и в зависимости от результата запроса сохраняет, загружает или не делает ничего.
* FileSaveAs1BeforeExecte - заносит имя открытого файла в строку диалогового окна при сохранении.
* FileSaveAs1Accept - производится сохранение файла и его имя записывается в окно формы.
* FormCreate - присваивает имя new file и отмечает, что в тексте не было внесено изменений.
* RichEdit1Change- отмечаем, что текст изменился, чтобы предложить сохранить изменения.
* FormCloseQuery - производится запрос на сохранение изменений и в зависимости от результата запроса сохраняет, выходит без сохранения или ничего не происходит при закрытии файла.
* NewExecute - при запросе сохраняет файл, а потом удаляет содержимое текстового редактора и меняет имя файла на new file.
* Edit1Change - при изменении счетчика меняется размер шрифта.
* AboutExecute - открывается окно About.

Переменные:

* FileName - путь к файлу с сохранением.
* fm - имя файла сохранения.

К стандартным действиям добавлен объект вставки Даты и времени с обработчиком событий **Action5Execute**. **Action5Execute** открывает диалоговое окно формы выбора вставки даты и времени. В этой форме добавлен элемент **ScrList** для вывода на экран выбора формата вставки даты и времени в текстовом виде. И элемент кнопка **Okbtn** добавлена для вставки в **RichEdit** даты и времени ,и закрытию диалоговое окна формы. И кнопка **CancleBtn** для закрытия диалогового окна выбора формата вставки даты и времени.

Переменные:

* Days[] - массив названий дней недели
* day\_of\_week – день недели

Список используемых компонентов devExpress 17.1.2

1. примеры выполнения программы

Старт программы:

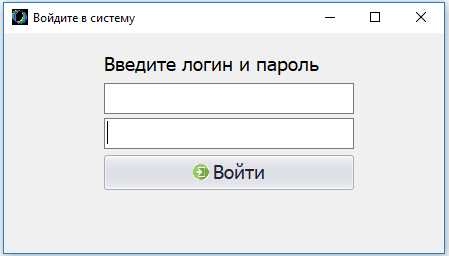


Рис. 1 – Начало работы программы

Вкладка «Задания»:

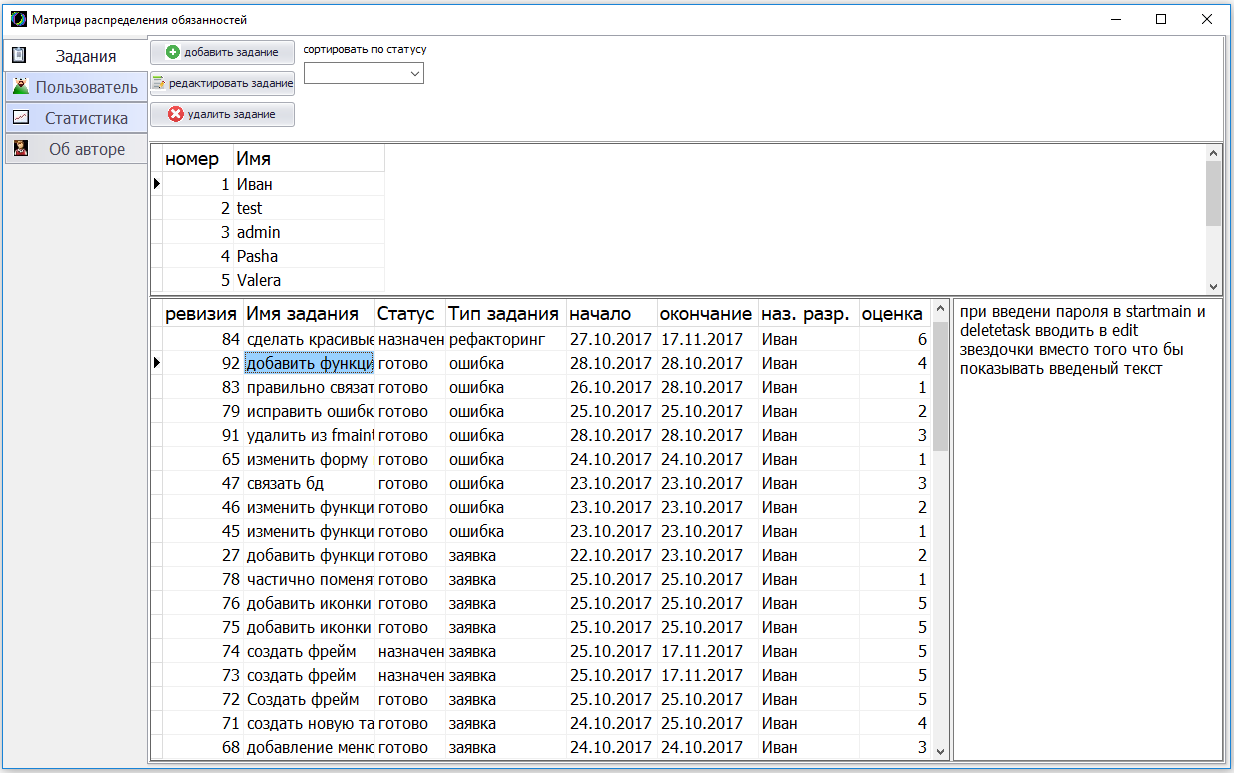


Рис. 2 – Вкладка «Задания»:

Вкладка «Задания» сортировка по статусу:

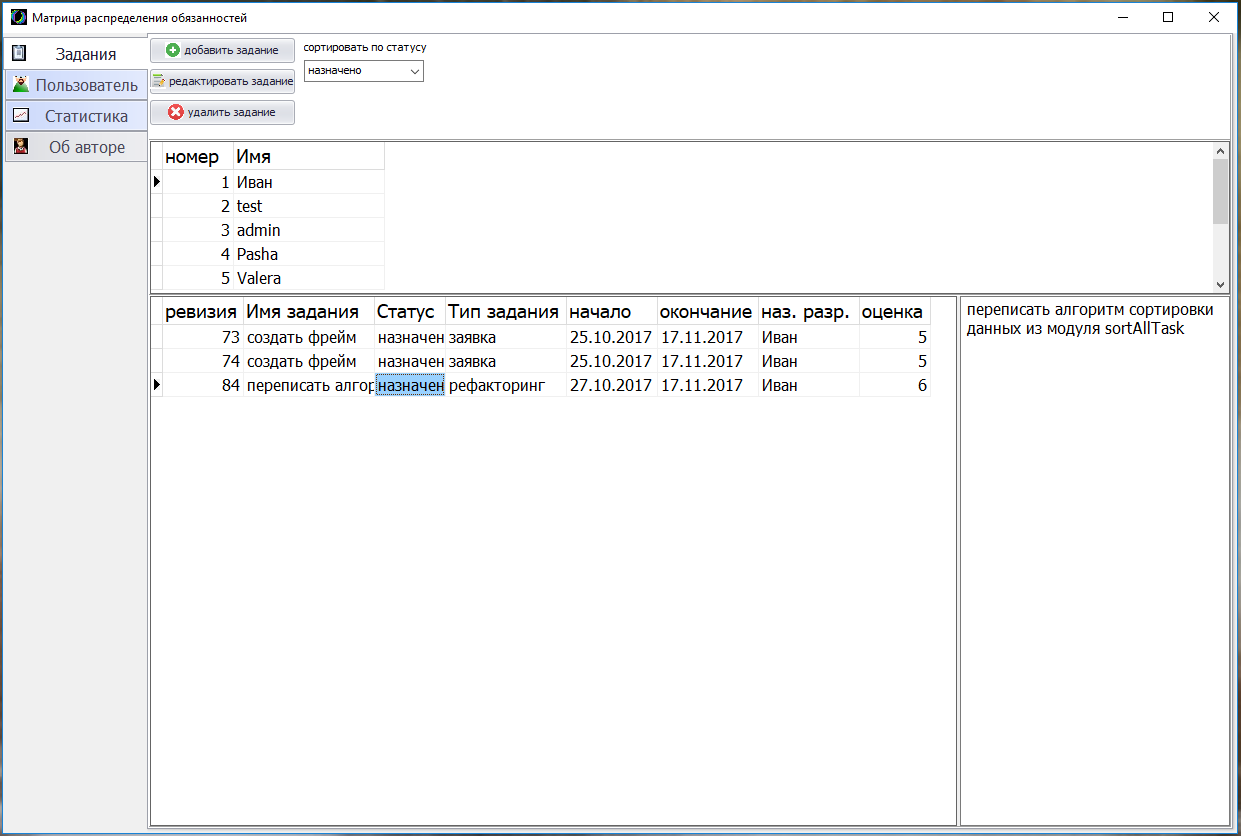


Рис. 3 – Сортировка по статусу заданий

Форма задание:

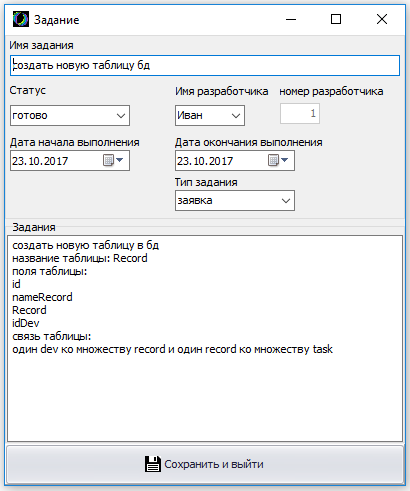


Рис. 4 – Редактирование заданий

Форма удаления заданий:

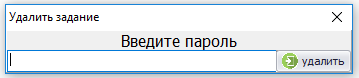


Рис. 5 – Удаление заданий

Вкладка «Пользователь»:

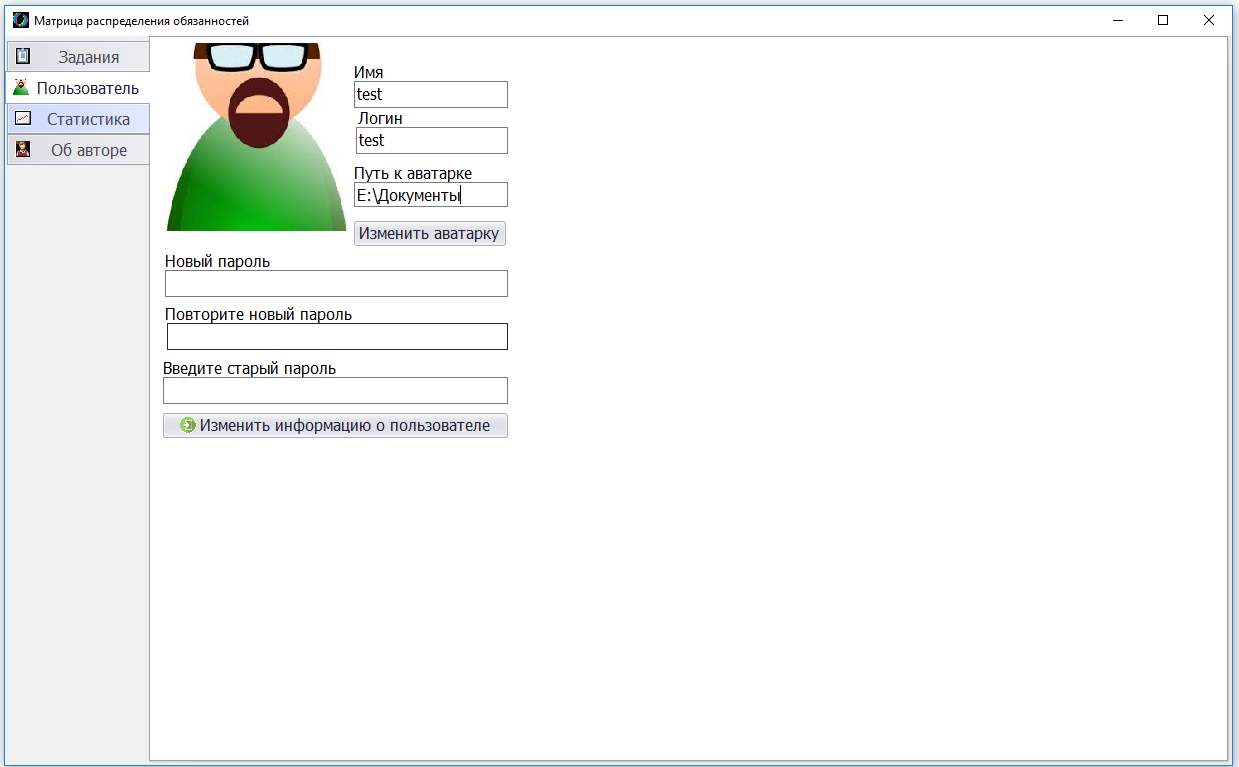


Рис. 6– Вкладка «Пользователь»

Вкладка «Статистика»:

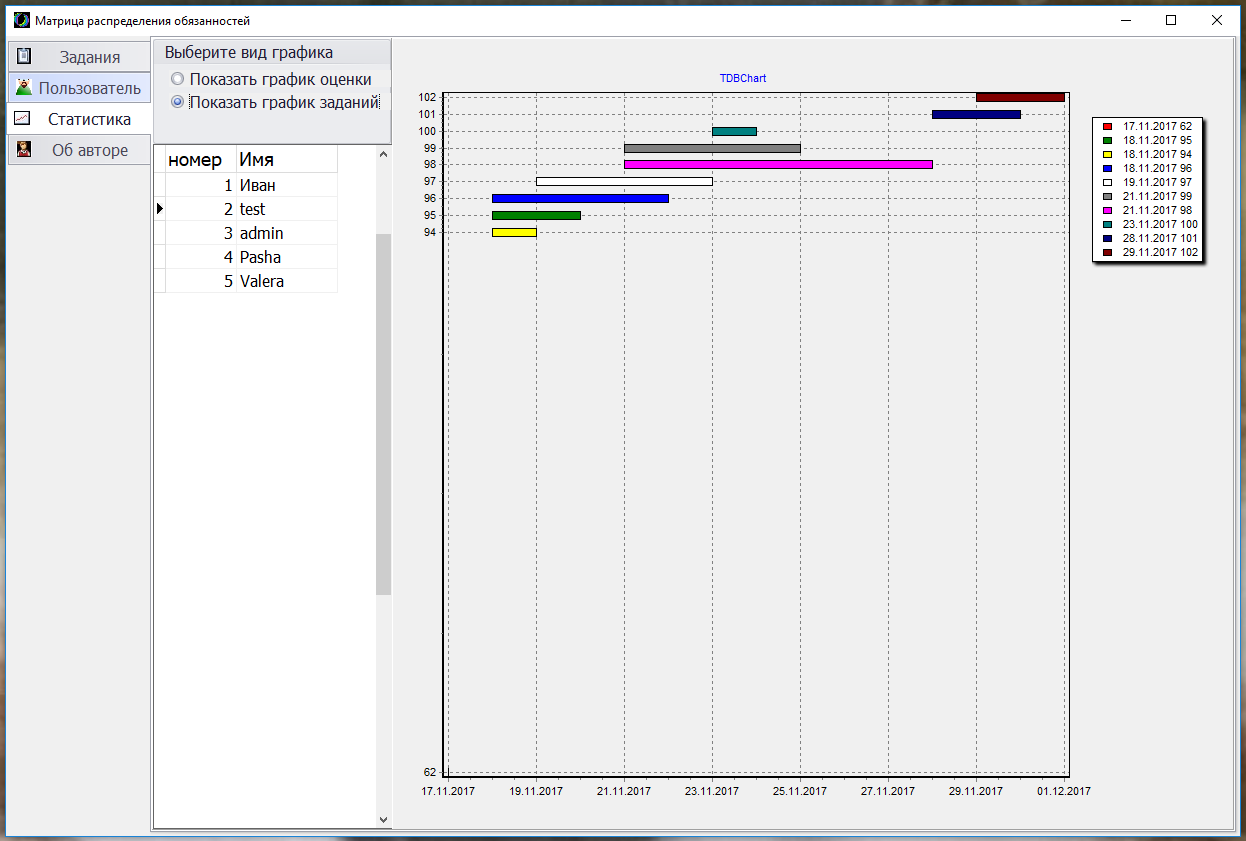


Рис. 7 – Вкладка «Статистика» график заданий

Вкладка «Об авторе»:

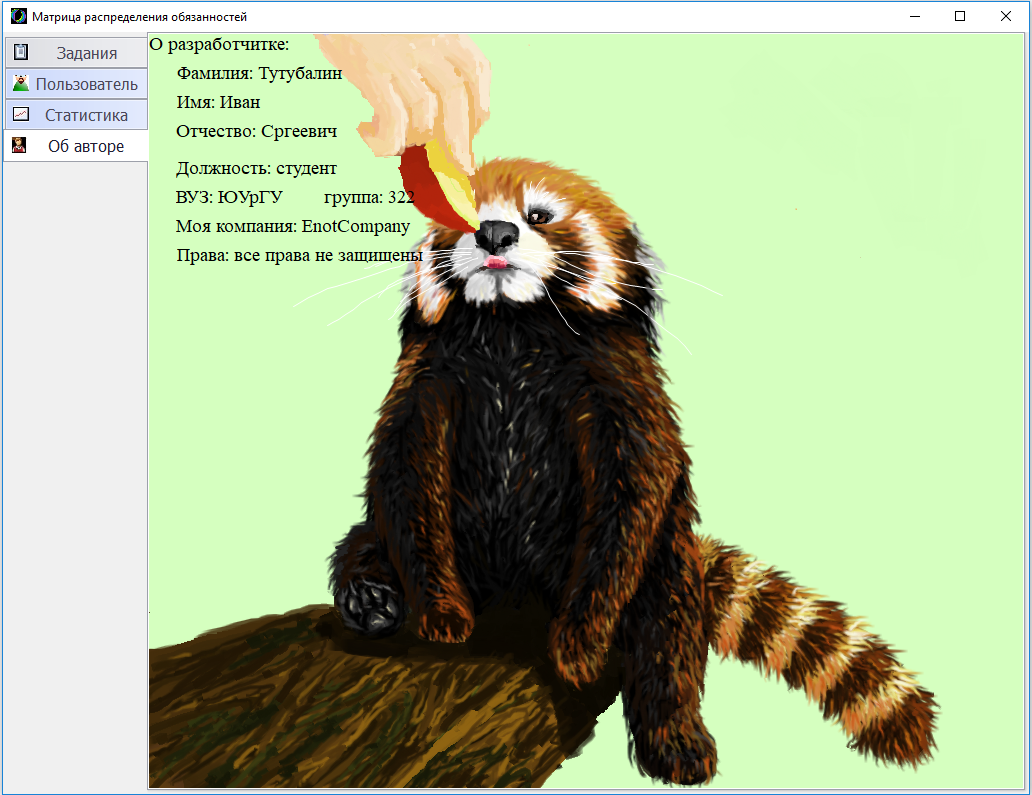


Рис. 7 – Вкладка «Об авторе»

1. ТЕКСТ ПРОГРАММЫ

FMainAbout.pas:

unit FMainAbout;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, cxGraphics, cxControls, cxLookAndFeels, cxLookAndFeelPainters, cxContainer, cxEdit, ExtCtrls, StdCtrls;

type

TFrameMainAbout = class(TFrame)

ImageAvatar: TImage;

LbLastName: TLabel;

LbFirstName: TLabel;

LbMiddelName: TLabel;

LbGroup: TLabel;

LbCompane: TLabel;

LbInfoDev: TLabel;

LbUniversity: TLabel;

LbJob: TLabel;

LbRights: TLabel;

end;

implementation

end.

FMainAbout.dfm:

object FrameMainAbout: TFrameMainAbout

Left = 0

Top = 0

Width = 944

Height = 688

TabOrder = 0

object ImageAvatar: TImage

Left = 0

Top = 0

Width = 944

Height = 688

Align = alClient

AutoSize = True

ExplicitLeft = 27

ExplicitTop = 3

end

object LbLastName: TLabel

Left = 28

Top = 29

Width = 325

Height = 23

AutoSize = False

Caption = #1060#1072#1084#1080#1083#1080#1103': '#1058#1091#1090#1091#1073#1072#1083#1080#1085

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

object LbFirstName: TLabel

Left = 28

Top = 58

Width = 262

Height = 23

AutoSize = False

Caption = #1048#1084#1103': '#1048#1074#1072#1085

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

object LbMiddelName: TLabel

Left = 27

Top = 87

Width = 246

Height = 23

AutoSize = False

Caption = #1054#1090#1095#1077#1089#1090#1074#1086': '#1057#1088#1075#1077#1077#1074#1080#1095

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

object LbGroup: TLabel

Left = 175

Top = 153

Width = 186

Height = 23

AutoSize = False

Caption = #1075#1088#1091#1087#1087#1072': 322'

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

object LbCompane: TLabel

Left = 27

Top = 182

Width = 382

Height = 23

AutoSize = False

Caption = #1052#1086#1103' '#1082#1086#1084#1087#1072#1085#1080#1103': EnotCompany'

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

object LbInfoDev: TLabel

Left = 0

Top = 0

Width = 273

Height = 23

AutoSize = False

Caption = #1054' '#1088#1072#1079#1088#1072#1073#1086#1090#1095#1080#1090#1082#1077':

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

object LbUniversity: TLabel

Left = 27

Top = 153

Width = 142

Height = 23

AutoSize = False

Caption = #1042#1059#1047': '#1070#1059#1088#1043#1059

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

object LbJob: TLabel

Left = 27

Top = 124

Width = 294

Height = 23

AutoSize = False

Caption = #1044#1086#1083#1078#1085#1086#1089#1090#1100': '#1089#1090#1091#1076#1077#1085#1090

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

object LbRights: TLabel

Left = 28

Top = 211

Width = 413

Height = 23

AutoSize = False

Caption = #1055#1088#1072#1074#1072': '#1074#1089#1077' '#1087#1088#1072#1074#1072' '#1085#1077' '#1079#1072#1097#1080#1097#1077#1085#1099

Font.Charset = RUSSIAN\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Times New Roman'

Font.Style = []

ParentFont = False

end

end

MDBControl.pas:

unit MDBControl;

interface

uses

SysUtils, Classes, DB, ADODB;

type

TModuleDBControl = class(TDataModule)

DSDev: TDataSource;

ConDBNextDev: TADOConnection;

QueryTask: TADOQuery;

DSTask: TDataSource;

QueryDev: TADOQuery;

QueryTaskid: TAutoIncField;

QueryTasknameTask: TWideStringField;

QueryTasktask: TWideStringField;

QueryTaskstatus: TWideStringField;

QueryTaskidDev: TIntegerField;

QueryTaskdateEnd: TDateTimeField;

QueryTaskdateNext: TDateTimeField;

QueryTasktypeTask: TWideStringField;

QueryTasknameDev: TWideStringField;

QueryDevid: TAutoIncField;

QueryDevname: TWideStringField;

QueryDevlogin: TWideStringField;

QueryDevpassword: TWideStringField;

QueryDevavatar: TWideStringField;

QueryTaskappraisal: TIntegerField;

procedure DataModuleCreate(Sender: TObject);

end;

var

ModuleDBControl: TModuleDBControl;

implementation

uses UMain;

procedure TModuleDBControl.DataModuleCreate(Sender: TObject);

begin

QueryDev.Active:=false;

QueryTask.Active:=false;

ConDBNextDev.Connected:=false;

ConDBNextDev.ConnectionString:=

'Provider=Microsoft.Jet.OLEDB.4.0;User ID=Admin;Data Source='+

FormMain.path+'БД\Database1.mdb;'+

'Mode=Share Deny None;Jet OLEDB:SFP=False;';

ConDBNextDev.Connected:=true;

QueryDev.Active:=true;

QueryTask.Active:=true;

end;

end.

MDBControl.dfm:

object ModuleDBControl: TModuleDBControl

OldCreateOrder = True

OnCreate = DataModuleCreate

Height = 404

Width = 538

object DSDev: TDataSource

DataSet = QueryDev

Left = 16

Top = 160

end

object ConDBNextDev: TADOConnection

LoginPrompt = False

Mode = cmShareDenyNone

Provider = 'Microsoft.Jet.OLEDB.4.0'

Left = 24

Top = 16

end

object QueryTask: TADOQuery

Connection = ConDBNextDev

CursorType = ctStatic

Parameters = <>

SQL.Strings = (

'Select'

' t.\*'

'From'

' task t')

Left = 80

Top = 88

object QueryTaskid: TAutoIncField

FieldName = 'id'

ReadOnly = True

end

object QueryTasknameTask: TWideStringField

FieldName = 'nameTask'

Size = 255

end

object QueryTasktask: TWideStringField

FieldName = 'task'

Size = 255

end

object QueryTaskstatus: TWideStringField

FieldName = 'status'

Size = 255

end

object QueryTaskidDev: TIntegerField

FieldName = 'idDev'

end

object QueryTaskdateEnd: TDateTimeField

FieldName = 'dateEnd'

end

object QueryTaskdateNext: TDateTimeField

FieldName = 'dateNext'

end

object QueryTasktypeTask: TWideStringField

FieldName = 'typeTask'

Size = 255

end

object QueryTasknameDev: TWideStringField

FieldName = 'nameDev'

Size = 255

end

object QueryTaskappraisal: TIntegerField

FieldName = 'appraisal'

end

end

object DSTask: TDataSource

DataSet = QueryTask

Left = 80

Top = 160

end

object QueryDev: TADOQuery

Connection = ConDBNextDev

CursorType = ctStatic

Parameters = <>

SQL.Strings = (

'Select'

' d.\*'

'From'

' dev d')

Left = 16

Top = 88

object QueryDevid: TAutoIncField

FieldName = 'id'

ReadOnly = True

end

object QueryDevname: TWideStringField

FieldName = 'name'

Size = 255

end

object QueryDevlogin: TWideStringField

FieldName = 'login'

Size = 255

end

object QueryDevpassword: TWideStringField

FieldName = 'password'

Size = 255

end

object QueryDevavatar: TWideStringField

FieldName = 'avatar'

Size = 255

end

end

end

UStartMain.pas:

unit UStartMain;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, Mask, DBCtrls, StdCtrls, cxGraphics, cxLookAndFeels, cxLookAndFeelPainters, Menus, dxSkinsCore,cxButtons;

type

TFormStartMain = class(TForm)

EditReadPassword: TEdit;

EditReadLogin: TEdit;

DBCBReadLogin: TDBComboBox;

DBCBReadPassword: TDBComboBox;

cxBtReadPassword: TcxButton;

LbReadPassword: TLabel;

procedure FormCreate(Sender: TObject);

procedure FormClose(Sender: TObject; var Action: TCloseAction);

procedure cxBtReadPasswordClick(Sender: TObject);

procedure EditReadPasswordKeyPress(Sender: TObject; var Key: Char);

procedure EditReadLoginKeyPress(Sender: TObject; var Key: Char);

private

tempPassword:String;

public

IdUser:String;

end;

var

FormStartMain: TFormStartMain;

implementation

uses MDBControl, UMain, MImg;

procedure TFormStartMain.cxBtReadPasswordClick(Sender: TObject);

var

i: integer;

begin

for i := 0 to ModuleDBControl.QueryDev.RecordCount - 1 do

begin

if (EditReadLogin.Text = DBCBReadLogin.items[i]) and

(tempPassword = DBCBReadPassword.Items[i]) then

begin

IdUser := IntToStr(i);

FormMain.Enabled := true;

FormMain.Visible := true;

FormStartMain.Hide;

end

else

begin

LbReadPassword.Font.Color := clRed;

LbReadPassword.Caption := 'Wrong password. Try again.';

end;

end;

EditReadPassword.Text := '';

tempPassword:='';

end;

procedure TFormStartMain.EditReadLoginKeyPress(Sender: TObject; var Key: Char);

begin

case key of

#13:

EditReadPassword.setfocus;

end;

end;

procedure TFormStartMain.EditReadPasswordKeyPress(Sender: TObject;

var Key: Char);

begin

case key of

#13:

cxBtReadPasswordClick(self);

#8:

delete(tempPassword, length(tempPassword), 1);

else

begin

tempPassword:=tempPassword+key;

key:='\*';

end;

end;

end;

procedure TFormStartMain.FormClose(Sender: TObject; var Action: TCloseAction);

begin

FormMain.Close;

end;

procedure TFormStartMain.FormCreate(Sender: TObject);

var

login, password, name: String;

i: integer;

begin

FormMain.Enabled := false;

DBCBReadLogin.Items.Clear;

DBCBReadPassword.Items.Clear;

ModuleDBControl.QueryDev.First;

for i := 0 to ModuleDBControl.QueryDev.RecordCount - 1 do

begin

login := ModuleDBControl.QueryDev.FieldByName('login').AsString;

DBCBReadLogin.AddItem(login, self);

password := ModuleDBControl.QueryDev.FieldByName('password').AsString;

DBCBReadPassword.AddItem(password, self);

ModuleDBControl.QueryDev.Next;

end;

end;

end.

UStartMain.dfm:

object FormStartMain: TFormStartMain

Left = 0

Top = 0

Caption = #1042#1086#1081#1076#1080#1090#1077' '#1074' '#1089#1080#1089#1090#1077#1084#1091

ClientHeight = 220

ClientWidth = 440

Color = clBtnFace

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -19

Font.Name = 'Tahoma'

Font.Style = []

OldCreateOrder = False

Position = poDesktopCenter

Visible = True

OnClose = FormClose

OnCreate = FormCreate

PixelsPerInch = 96

TextHeight = 23

object LbReadPassword: TLabel

Left = 100

Top = 19

Width = 215

Height = 23

Alignment = taCenter

Caption = #1042#1074#1077#1076#1080#1090#1077' '#1083#1086#1075#1080#1085' '#1080' '#1087#1072#1088#1086#1083#1100

end

object EditReadPassword: TEdit

Left = 100

Top = 85

Width = 250

Height = 31

TabOrder = 0

OnKeyPress = EditReadPasswordKeyPress

end

object EditReadLogin: TEdit

Left = 100

Top = 50

Width = 250

Height = 31

Alignment = taCenter

TabOrder = 1

OnKeyPress = EditReadLoginKeyPress

end

object DBCBReadLogin: TDBComboBox

Left = 1

Top = 48

Width = 73

Height = 31

DataField = 'login'

DataSource = ModuleDBControl.DSDev

TabOrder = 2

Visible = False

end

object DBCBReadPassword: TDBComboBox

Left = 1

Top = 85

Width = 73

Height = 31

DataField = 'password'

DataSource = ModuleDBControl.DSDev

TabOrder = 3

Visible = False

end

object cxBtReadPassword: TcxButton

Left = 100

Top = 122

Width = 250

Height = 35

Caption = #1042#1086#1081#1090#1080

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

OptionsImage.ImageIndex = 0

OptionsImage.Images = ModuleImg.ImageListCommon

TabOrder = 4

OnClick = cxBtReadPasswordClick

end

end

UMain.pas:

unit UMain;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

Dialogs, ExtCtrls, FRecordTask, FRecordDev, StdCtrls, Mask, DBCtrls, Menus,

ComCtrls, dxSkinsCore, , dxBarBuiltInMenu, cxGraphics, cxControls, cxLookAndFeels, cxLookAndFeelPainters, cxPC, FMainTask, ImgList, FMainUser, Buttons, Grids, DBGrids, DB, TabNotBk, ADODB, FMainAbout, FMainStatist;

type

TFormMain = class(TForm)

cxPageControlMainMenu: TcxPageControl;

cxMainTask: TcxTabSheet;

cxStatist: TcxTabSheet;

cxUser: TcxTabSheet;

FrameMainUser: TFrameMainUser;

cxAbout: TcxTabSheet;

FrameMainStatist: TFrameMainStatist;

FrameMainTask: TFrameMainTask;

FrameMainAbout: TFrameMainAbout;

procedure refresh1Click(Sender: TObject);

procedure FormCreate(Sender: TObject);

procedure cxUserShow(Sender: TObject);

procedure cxMainTaskShow(Sender: TObject);

procedure cxAboutShow(Sender: TObject);

procedure cxStatistShow(Sender: TObject);

private

public

path:string;

end;

var

FormMain: TFormMain;

implementation

uses MDBControl, UNewTask, UDeleteTask, MImg, UStartMain;

procedure TFormMain.cxAboutShow(Sender: TObject);

begin

FrameMainAbout.ImageAvatar.Picture.LoadFromFile(path + 'иконки\About.png')

end;

procedure TFormMain.cxMainTaskShow(Sender: TObject);

begin

FrameMainTask.DBEditRelationsTableDevAndTaskChange(Sender);

ShowScrollBar(FrameMainTask.FrameRecordDev.DBGridDev.Handle, SB\_VERT, True);

ShowScrollBar(FrameMainTask.FrameRecordTask.DBGridTask.Handle, SB\_VERT, True);

end;

procedure TFormMain.cxStatistShow(Sender: TObject);

begin

ShowScrollBar(FrameMainStatist.FrameRecordDev.DBGridDev.Handle, SB\_VERT, True);

end;

procedure TFormMain.cxUserShow(Sender: TObject);

var

i:integer;

begin

СИСТЕМУ

with FrameMainUser do

begin

LbIDUser.Caption:=FormStartMain.IdUser;

ModuleDBControl.QueryDev.First;

for i := 0 to StrToInt(FormStartMain.IdUser) - 1 do

ModuleDBControl.QueryDev.Next;

EditDev.Text:=ModuleDBControl.QueryDev.FieldByName('name').AsString;

EditLogin.Text:=ModuleDBControl.QueryDev.FieldByName('login').AsString;

LbPasswordUser.Caption:=ModuleDBControl.QueryDev.FieldByName('password').AsString;

cxMemoPathAvatarUser.Text:=ModuleDBControl.QueryDev.FieldByName('avatar').AsString;

if cxMemoPathAvatarUser.Text = '' then

ImageAvatarUser.Picture.LoadFromFile(path + 'иконки\dev.jpg')

else

ImageAvatarUser.Picture.LoadFromFile(cxMemoPathAvatarUser.Text);

LbIncorrectPassword.Visible:=false;

LbIncorrectRepeatPassword.Visible:=false;

end;

end;

procedure TFormMain.FormCreate(Sender: TObject);

begin

cxPageControlMainMenu.Properties.ActivePage := cxMainTask;

cxPageControlMainMenu.Properties.ActivateFocusedTab:=true;

path:= ExtractFilePath(Application.ExeName);

end;

procedure TFormMain.refresh1Click(Sender: TObject);

begin

ModuleDBControl.QueryTask.Refresh;

ModuleDBControl.QueryDev.Refresh;

end;

end.

UMain.dfm:

object FormMain: TFormMain

Left = 0

Top = 0

Caption = #1052#1072#1090#1088#1080#1094#1072' '#1088#1072#1089#1087#1088#1077#1076#1077#1083#1077#1085#1080#1103' '#1086#1073#1103#1079#1072#1085#1085#1086#1089#1090#1077#1081

ClientHeight = 800

ClientWidth = 1234

Color = clBtnFace

DefaultMonitor = dmMainForm

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -11

Font.Name = 'Tahoma'

Font.Style = []

OldCreateOrder = False

Position = poDesktopCenter

OnCreate = FormCreate

PixelsPerInch = 96

TextHeight = 13

object cxPageControlMainMenu: TcxPageControl

Left = 0

Top = 0

Width = 1234

Height = 800

Align = alClient

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -16

Font.Name = 'Tahoma'

Font.Style = []

ParentFont = False

TabOrder = 0

Properties.ActivePage = cxMainTask

Properties.CustomButtons.Buttons = <>

Properties.Images = ModuleImg.ImageListMainMenu

Properties.Rotate = True

Properties.TabPosition = tpLeft

LookAndFeel.Kind = lfUltraFlat

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

ClientRectBottom = 794

ClientRectLeft = 146

ClientRectRight = 1228

ClientRectTop = 2

object cxMainTask: TcxTabSheet

Caption = #1047#1072#1076#1072#1085#1080#1103

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -11

Font.Name = 'Tahoma'

Font.Style = []

ImageIndex = 2

ParentFont = False

OnShow = cxMainTaskShow

inline FrameMainTask: TFrameMainTask

Left = 0

Top = 0

Width = 1082

Height = 792

Align = alClient

PopupMenu = FrameMainTask.PMMain

TabOrder = 0

ExplicitWidth = 1082

ExplicitHeight = 792

inherited PanelFun: TPanel

Width = 1082

ExplicitWidth = 1082

end

inherited PanelDev: TPanel

Width = 1082

ExplicitWidth = 1082

inherited FrameRecordDev: TFrameRecordDev

Width = 1080

ExplicitLeft = 1

ExplicitTop = 1

ExplicitWidth = 1080

inherited DBGridDev: TDBGrid

Width = 1080

end

end

end

inherited PanelTask: TPanel

Width = 1082

Height = 532

ExplicitWidth = 1082

ExplicitHeight = 532

inherited FrameRecordTask: TFrameRecordTask

Width = 1080

Height = 530

ExplicitWidth = 1080

ExplicitHeight = 530

inherited Splitter1: TSplitter

Left = 807

Height = 530

ExplicitLeft = 807

ExplicitHeight = 530

end

inherited DBGridTask: TDBGrid

Width = 807

Height = 530

end

inherited DBMemoTask: TDBMemo

Left = 810

Height = 530

ExplicitLeft = 810

ExplicitHeight = 530

end

end

end

end

end

object cxUser: TcxTabSheet

Caption = #1055#1086#1083#1100#1079#1086#1074#1072#1090#1077#1083#1100

Highlighted = True

ImageIndex = 0

OnShow = cxUserShow

inline FrameMainUser: TFrameMainUser

Left = 0

Top = 0

Width = 1082

Height = 792

Align = alClient

TabOrder = 0

ExplicitWidth = 1082

ExplicitHeight = 792

inherited LbName: TLabel

Width = 29

Height = 19

ExplicitWidth = 29

ExplicitHeight = 19

end

inherited LbLogin: TLabel

Width = 45

Height = 19

ExplicitWidth = 45

ExplicitHeight = 19

end

inherited LbIDUser: TLabel

Width = 66

Height = 19

ExplicitWidth = 66

ExplicitHeight = 19

end

inherited LbPasswordUser: TLabel

Width = 116

Height = 19

ExplicitWidth = 116

ExplicitHeight = 19

end

inherited LbNewPassword: TLabel

Width = 105

Height = 19

ExplicitWidth = 105

ExplicitHeight = 19

end

inherited LbRepeatNewPassword: TLabel

Width = 187

Height = 19

ExplicitWidth = 187

ExplicitHeight = 19

end

inherited LbOldPassword: TLabel

Width = 173

Height = 19

ExplicitWidth = 173

ExplicitHeight = 19

end

inherited LbPathAvatarUser: TLabel

Width = 118

Height = 19

ExplicitWidth = 118

ExplicitHeight = 19

end

inherited EditDev: TEdit

Height = 27

ExplicitHeight = 27

end

inherited EditLogin: TEdit

Height = 27

ExplicitHeight = 27

end

inherited EditNewPassword: TEdit

Height = 27

ExplicitHeight = 27

end

inherited EditRepeatNewPassword: TEdit

Height = 27

ExplicitHeight = 27

end

inherited EditOldPassword: TEdit

Height = 27

ExplicitHeight = 27

end

inherited cxMemoPathAvatarUser: TcxMemo

Lines.Strings = (

'cxMemoPathAvatar'

'User')

end

inherited OpenPictureDialogAvatar: TOpenPictureDialog

Left = 364

Top = 42

end

end

end

object cxStatist: TcxTabSheet

Caption = #1057#1090#1072#1090#1080#1089#1090#1080#1082#1072

Highlighted = True

ImageIndex = 1

OnShow = cxStatistShow

ExplicitLeft = 0

ExplicitTop = 0

ExplicitWidth = 0

ExplicitHeight = 0

inline FrameMainStatist: TFrameMainStatist

Left = 0

Top = 0

Width = 1082

Height = 792

Align = alClient

TabOrder = 0

ExplicitWidth = 1082

ExplicitHeight = 792

inherited DBChartStatistTask: TDBChart

Left = 739

Height = 792

ExplicitLeft = 739

ExplicitHeight = 792

end

inherited DBChartStatistAppraisal: TDBChart

Width = 499

Height = 792

ExplicitWidth = 499

ExplicitHeight = 792

inherited Series2: TLineSeries

XLabelsSource = ''

end

end

inherited PanelNoChart: TPanel

Height = 792

ExplicitHeight = 792

inherited FrameRecordDev: TFrameRecordDev

Height = 685

ExplicitHeight = 685

inherited DBGridDev: TDBGrid

Height = 685

end

end

end

end

end

object cxAbout: TcxTabSheet

Caption = #1054#1073' '#1072#1074#1090#1086#1088#1077

ImageIndex = 3

OnShow = cxAboutShow

inline FrameMainAbout: TFrameMainAbout

Left = 0

Top = 0

Width = 1082

Height = 792

Align = alClient

TabOrder = 0

ExplicitWidth = 1082

ExplicitHeight = 792

inherited ImageAvatar: TImage

Width = 1082

Height = 792

ExplicitWidth = 1082

ExplicitHeight = 792

end

end

end

end

end

FMainStatist.pas:

unit FMainStatist;

interface

uses Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

Dialogs, TeEngine, ExtCtrls, TeeProcs, Chart, DBChart, Series, FRecordDev, GanttCh, dxSkinsCore, cxGraphics, cxControls, cxLookAndFeels, cxLookAndFeelPainters, cxContainer, cxEdit, cxGroupBox, StdCtrls, cxRadioGroup, TeeFunci;

type

TFrameMainStatist = class(TFrame)

DBChartStatistTask: TDBChart;

FrameRecordDev: TFrameRecordDev;

Series1: TGanttSeries;

cxRGSwithChart: TcxGroupBox;

cxRBStatistTask: TcxRadioButton;

cxRBStatistAppraisal: TcxRadioButton;

DBChartStatistAppraisal: TDBChart;

Series2: TLineSeries;

PanelNoChart: TPanel;

TeeFunction1: TCustomTeeFunction;

procedure cxRBStatistAppraisalClick(Sender: TObject);

procedure cxRBStatistTaskClick(Sender: TObject);

private

public

end;

implementation

uses MDBControl, UMain, FRecordTask;

procedure TFrameMainStatist.cxRBStatistTaskClick(Sender: TObject);

begin

DBChartStatistTask.Align := alClient;

DBChartStatistAppraisal.Visible:=false;

DBChartStatistTask.Visible := true;

end;

procedure TFrameMainStatist.cxRBStatistAppraisalClick(Sender: TObject);

begin

DBChartStatistAppraisal.Align := alClient;

DBChartStatistTask.Visible:=false;

DBChartStatistAppraisal.Visible := true;

end;

end.

FMainStatist.dfm:

object FrameMainStatist: TFrameMainStatist

Left = 0

Top = 0

Width = 895

Height = 671

TabOrder = 0

object DBChartStatistTask: TDBChart

Left = 560

Top = 0

Width = 316

Height = 290

Title.Text.Strings = (

'TDBChart')

View3D = False

TabOrder = 0

Visible = False

object Series1: TGanttSeries

Marks.Arrow.Visible = True

Marks.Callout.Brush.Color = clBlack

Marks.Callout.Arrow.Visible = True

Marks.Visible = False

DataSource = ModuleDBControl.QueryTask

Title = 'Revision&Date'

XLabelsSource = 'id'

ClickableLine = False

Pointer.InflateMargins = True

Pointer.Style = psRectangle

Pointer.Visible = True

XValues.Name = 'Start'

XValues.Order = loAscending

XValues.ValueSource = 'dateNext'

YValues.Name = 'Y'

YValues.Order = loNone

YValues.ValueSource = 'id'

StartValues.Name = 'Start'

StartValues.Order = loAscending

StartValues.ValueSource = 'dateNext'

EndValues.Name = 'End'

EndValues.Order = loNone

EndValues.ValueSource = 'dateEnd'

NextTask.Name = 'NextTask'

NextTask.Order = loNone

end

end

object DBChartStatistAppraisal: TDBChart

Left = 238

Top = 0

Width = 316

Height = 290

Title.Text.Strings = (

'TDBChart')

View3D = False

TabOrder = 1

Visible = False

object Series2: TLineSeries

Marks.Arrow.Visible = True

Marks.Callout.Brush.Color = clBlack

Marks.Callout.Arrow.Visible = True

Marks.Visible = False

DataSource = ModuleDBControl.QueryTask

XLabelsSource = 'id'

Pointer.InflateMargins = True

Pointer.Style = psRectangle

Pointer.Visible = False

XValues.DateTime = True

XValues.Name = 'X'

XValues.Order = loAscending

XValues.ValueSource = 'dateEnd'

YValues.Name = 'Y'

YValues.Order = loNone

YValues.ValueSource = 'appraisal'

object TeeFunction1: TCustomTeeFunction

Period = 1.000000000000000000

NumPoints = 100

end

end

end

object PanelNoChart: TPanel

Left = 0

Top = 0

Width = 240

Height = 671

Align = alLeft

Caption = 'PanelNoChart'

TabOrder = 2

object cxRGSwithChart: TcxGroupBox

Left = 1

Top = 1

Align = alTop

Caption = #1042#1099#1073#1077#1088#1080#1090#1077' '#1074#1080#1076' '#1075#1088#1072#1092#1080#1082#1072

Style.LookAndFeel.NativeStyle = False

Style.LookAndFeel.SkinName = 'DevExpressStyle'

StyleDisabled.LookAndFeel.NativeStyle = False

StyleDisabled.LookAndFeel.SkinName = 'DevExpressStyle'

TabOrder = 0

Height = 105

Width = 238

object cxRBStatistTask: TcxRadioButton

Left = 16

Top = 48

Width = 273

Height = 17

Caption = #1055#1086#1082#1072#1079#1072#1090#1100' '#1075#1088#1072#1092#1080#1082' '#1079#1072#1076#1072#1085#1080#1081

TabOrder = 0

OnClick = cxRBStatistTaskClick

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

end

object cxRBStatistAppraisal: TcxRadioButton

Left = 16

Top = 25

Width = 273

Height = 17

Caption = #1055#1086#1082#1072#1079#1072#1090#1100' '#1075#1088#1072#1092#1080#1082' '#1086#1094#1077#1085#1082#1080

TabOrder = 1

OnClick = cxRBStatistAppraisalClick

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

end

end

inline FrameRecordDev: TFrameRecordDev

Left = 1

Top = 106

Width = 240

Height = 564

Align = alLeft

TabOrder = 1

ExplicitLeft = 1

ExplicitTop = 106

ExplicitWidth = 240

ExplicitHeight = 564

inherited DBGridDev: TDBGrid

Width = 240

Height = 564

Columns = <

item

Expanded = False

FieldName = 'id'

Title.Caption = #1085#1086#1084#1077#1088

Width = 70

Visible = True

end

item

Expanded = False

FieldName = 'name'

Title.Caption = #1048#1084#1103

Width = 100

Visible = True

end>

end

end

end

end

FRecordDev.pas:

unit FRecordDev;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, ExtCtrls, DBCtrls, DB, Grids, DBGrids, Menus, StdCtrls;

type

TFrameRecordDev = class(TFrame)

DBGridDev: TDBGrid;

private

public

end;

implementation

uses MDBControl;

end.

FRecordDev.dfm:

object FrameRecordDev: TFrameRecordDev

Left = 0

Top = 0

Width = 1200

Height = 150

TabOrder = 0

object DBGridDev: TDBGrid

Left = 0

Top = 0

Width = 1200

Height = 150

Align = alClient

Ctl3D = False

DataSource = ModuleDBControl.DSDev

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -16

Font.Name = 'Tahoma'

Font.Style = []

ParentCtl3D = False

ParentFont = False

ReadOnly = True

TabOrder = 0

TitleFont.Charset = DEFAULT\_CHARSET

TitleFont.Color = clWindowText

TitleFont.Height = -19

TitleFont.Name = 'Tahoma'

TitleFont.Style = []

Touch.ParentTabletOptions = False

Touch.TabletOptions = [toPressAndHold]

Columns = <

item

Expanded = False

FieldName = 'id'

Title.Caption = #1085#1086#1084#1077#1088

Width = 70

Visible = True

end

item

Expanded = False

FieldName = 'name'

Title.Caption = #1048#1084#1103

Width = 150

Visible = True

end>

end

end

FMainUser.pas:

unit FMainUser;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, cxGraphics, cxLookAndFeels, cxLookAndFeelPainters, Menus, dxSkinsCore,StdCtrls, cxButtons, DBCtrls, ExtCtrls, cxControls, cxContainer, cxEdit, cxTextEdit, cxMemo, ExtDlgs, cxMaskEdit, cxDropDownEdit, cxImageComboBox, cxDBEdit,cxImage;

type

TFrameMainUser = class(TFrame)

LbName: TLabel;

LbLogin: TLabel;

LbIDUser: TLabel;

LbPasswordUser: TLabel;

LbNewPassword: TLabel;

LbRepeatNewPassword: TLabel;

LbOldPassword: TLabel;

LbIncorrectPassword: TLabel;

LbIncorrectRepeatPassword: TLabel;

EditDev: TEdit;

EditLogin: TEdit;

cxBtEditInfoUser: TcxButton;

EditNewPassword: TEdit;

EditRepeatNewPassword: TEdit;

EditOldPassword: TEdit;

ImageAvatarUser: TImage;

OpenPictureDialogAvatar: TOpenPictureDialog;

cxMemoPathAvatarUser: TcxMemo;

LbPathAvatarUser: TLabel;

cxBtPathAvatarUser: TcxButton;

procedure cxBtEditInfoUserClick(Sender: TObject);

procedure cxBtPathAvatarUserClick(Sender: TObject);

private

public

end;

implementation

uses UStartMain, MDBControl, MImg, UMain;

procedure TFrameMainUser.cxBtEditInfoUserClick(Sender: TObject);

var

i: integer;

begin

if EditOldPassword.Text = LbPasswordUser.Caption then

begin

ModuleDBControl.QueryDev.First;

for i := 0 to StrToInt(FormStartMain.IdUser) - 1 do

ModuleDBControl.QueryDev.Next;

ModuleDBControl.QueryDev.Edit;

ModuleDBControl.QueryDev.FieldByName('name').AsString := EditDev.Text;

ModuleDBControl.QueryDev.FieldByName('login').AsString := EditLogin.Text;

ModuleDBControl.QueryDev.FieldByName('avatar').AsString := cxMemoPathAvatarUser.Text;

if (EditNewPassword.Text <> '') or (EditRepeatNewPassword.Text <> '') then

begin

if EditNewPassword.Text = EditRepeatNewPassword.Text then

ModuleDBControl.QueryDev.FieldByName('password').AsString := EditNewPassword.Text

else

LbIncorrectRepeatPassword.Visible := true;

end;

ModuleDBControl.QueryDev.Post;

FormMain.cxUserShow(self);

end

else

begin

LbIncorrectPassword.Visible := true;

end;

EditNewPassword.Text:='';

EditRepeatNewPassword.Text:='';

EditOldPassword.Text:='';

end;

procedure TFrameMainUser.cxBtPathAvatarUserClick(Sender: TObject);

var

i: integer;

avatar: String;

begin

ModuleDBControl.QueryDev.First;

for i := 0 to StrToInt(FormStartMain.IdUser) - 1 do

ModuleDBControl.QueryDev.Next;

if OpenPictureDialogAvatar.Execute then

cxMemoPathAvatarUser.Text:=OpenPictureDialogAvatar.FileName;

ImageAvatarUser.Picture.LoadFromFile(cxMemoPathAvatarUser.Text);

end;

end.

FMainUser.dfm:

object FrameMainUser: TFrameMainUser

Left = 0

Top = 0

Width = 1040

Height = 640

TabOrder = 0

object LbName: TLabel

Left = 203

Top = 24

Width = 19

Height = 13

Caption = #1048#1084#1103

end

object LbLogin: TLabel

Left = 207

Top = 70

Width = 30

Height = 13

Caption = #1051#1086#1075#1080#1085

end

object LbIDUser: TLabel

Left = 278

Top = 5

Width = 44

Height = 13

Caption = 'LbIDUser'

Visible = False

end

object LbPasswordUser: TLabel

Left = 278

Top = 24

Width = 79

Height = 13

Caption = 'LbPasswordUser'

Visible = False

end

object LbNewPassword: TLabel

Left = 14

Top = 213

Width = 72

Height = 13

Caption = #1053#1086#1074#1099#1081' '#1087#1072#1088#1086#1083#1100

end

object LbRepeatNewPassword: TLabel

Left = 14

Top = 266

Width = 129

Height = 13

Caption = #1055#1086#1074#1090#1086#1088#1080#1090#1077' '#1085#1086#1074#1099#1081' '#1087#1072#1088#1086#1083#1100

end

object LbOldPassword: TLabel

Left = 12

Top = 320

Width = 122

Height = 13

Caption = #1042#1074#1077#1076#1080#1090#1077' '#1089#1090#1072#1088#1099#1081' '#1087#1072#1088#1086#1083#1100

end

object LbIncorrectPassword: TLabel

Left = 371

Top = 342

Width = 117

Height = 13

Caption = #1053#1077' '#1087#1088#1072#1074#1080#1083#1100#1085#1099#1081' '#1087#1072#1088#1086#1083#1100

Font.Charset = DEFAULT\_CHARSET

Font.Color = clRed

Font.Height = -11

Font.Name = 'Tahoma'

Font.Style = []

ParentFont = False

Visible = False

end

object LbIncorrectRepeatPassword: TLabel

Left = 371

Top = 288

Width = 111

Height = 13

Caption = #1087#1072#1088#1086#1083#1080' '#1085#1077' '#1089#1086#1074#1087#1072#1076#1072#1102#1090

Font.Charset = DEFAULT\_CHARSET

Font.Color = clRed

Font.Height = -11

Font.Name = 'Tahoma'

Font.Style = []

ParentFont = False

Visible = False

end

object ImageAvatarUser: TImage

Left = 14

Top = 5

Width = 183

Height = 202

Proportional = True

Stretch = True

end

object LbPathAvatarUser: TLabel

Left = 203

Top = 125

Width = 85

Height = 13

Caption = #1055#1091#1090#1100' '#1082' '#1072#1074#1072#1090#1072#1088#1082#1077

end

object EditDev: TEdit

Left = 203

Top = 43

Width = 154

Height = 21

TabOrder = 0

Text = 'EditDev'

end

object EditLogin: TEdit

Left = 205

Top = 89

Width = 152

Height = 21

TabOrder = 1

Text = 'EditLogin'

end

object cxBtEditInfoUser: TcxButton

Left = 12

Top = 375

Width = 345

Height = 25

Caption = #1048#1079#1084#1077#1085#1080#1090#1100' '#1080#1085#1092#1086#1088#1084#1072#1094#1080#1102' '#1086' '#1087#1086#1083#1100#1079#1086#1074#1072#1090#1077#1083#1077

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

OptionsImage.ImageIndex = 0

OptionsImage.Images = ModuleImg.ImageListCommon

TabOrder = 2

OnClick = cxBtEditInfoUserClick

end

object EditNewPassword: TEdit

Left = 14

Top = 232

Width = 343

Height = 21

TabOrder = 3

end

object EditRepeatNewPassword: TEdit

Left = 16

Top = 285

Width = 341

Height = 21

TabOrder = 4

end

object EditOldPassword: TEdit

Left = 12

Top = 339

Width = 345

Height = 21

TabOrder = 5

end

object cxMemoPathAvatarUser: TcxMemo

Left = 203

Top = 144

Lines.Strings = (

'cxMemoPathAvatarUser')

TabOrder = 6

Height = 25

Width = 154

end

object cxBtPathAvatarUser: TcxButton

Left = 203

Top = 183

Width = 152

Height = 25

Caption = #1048#1079#1084#1077#1085#1080#1090#1100' '#1072#1074#1072#1090#1072#1088#1082#1091

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

TabOrder = 7

OnClick = cxBtPathAvatarUserClick

end

object OpenPictureDialogAvatar: TOpenPictureDialog

Left = 516

Top = 90

end

end

UNewTask.pas:

unit UNewTask;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, ExtCtrls, StdCtrls, Mask, DBCtrls, ComCtrls, cxGraphics, cxLookAndFeels, cxLookAndFeelPainters, Menus, dxSkinsCore , cxButtons;

type

TFormNewTask = class(TForm)

GBRecord: TGroupBox;

GBTask: TGroupBox;

DBEditNameTask: TDBEdit;

LbNameTask: TLabel;

LbStatus: TLabel;

LbNameDev: TLabel;

LbDateNext: TLabel;

LbDateEnd: TLabel;

DBMemoTask: TDBMemo;

PanelSaveAndExit: TPanel;

LbTypeTask: TLabel;

DBCBStatus: TDBComboBox;

DateTimePickerDateNext: TDateTimePicker;

DateTimePickerDateEnd: TDateTimePicker;

DBEditIdDev: TDBEdit;

CBIdDev: TComboBox;

DBCBNameDev: TDBComboBox;

DBCBTypeTask: TDBComboBox;

LbIdDev: TLabel;

cxBtSaveEndExit: TcxButton;

procedure DateTimePickerDateNextChange(Sender: TObject);

procedure DateTimePickerDateEndChange(Sender: TObject);

procedure FormCreate(Sender: TObject);

procedure DBCBNameDevChange(Sender: TObject);

procedure FormShow(Sender: TObject);

procedure cxBtSaveEndExitClick(Sender: TObject);

private

public

end;

var

FormNewTask: TFormNewTask;

implementation

uses MDBControl, MImg;

procedure TFormNewTask.DBCBNameDevChange(Sender: TObject);

begin

CBIdDev.Text := CBIdDev.Items[DBCBNameDev.ItemIndex];

DBEditIdDev.Text := CBIdDev.Text;

end;

procedure TFormNewTask.cxBtSaveEndExitClick(Sender: TObject);

begin

if ModuleDBControl.QueryTask.Modified then

ModuleDBControl.QueryTask.Post;

FormNewTask.Hide;

end;

procedure TFormNewTask.DateTimePickerDateEndChange(Sender: TObject);

var

s: String;

begin

ModuleDBControl.QueryTask.Edit;

s:= copy(DateToStr(DateTimePickerDateEnd.Date),1,10);

ModuleDBControl.QueryTask.FieldValues['dateEnd'] := s;

end;

procedure TFormNewTask.DateTimePickerDateNextChange(Sender: TObject);

var

s: String;

begin

ModuleDBControl.QueryTask.Edit;

s:= copy(DateToStr(DateTimePickerDateNext.Date),1,10);

ModuleDBControl.QueryTask.FieldValues['dateNext'] := s;

end;

procedure TFormNewTask.FormCreate(Sender: TObject);

var

name, idName: String;

i: integer;

begin

DBCBNameDev.Items.Clear;

ModuleDBControl.QueryDev.First;

for i := 0 to ModuleDBControl.QueryDev.RecordCount - 1 do

begin

name := ModuleDBControl.QueryDev.FieldByName('name').AsString;

DBCBNameDev.AddItem(name, self);

idName := ModuleDBControl.QueryDev.FieldByName('id').AsString;

CBIdDev.AddItem(idName, self);

ModuleDBControl.QueryDev.Next;

end;

end;

procedure TFormNewTask.FormShow(Sender: TObject);

begin

if DBEditIdDev.Text <> '' then

begin

DBCBNameDev.Text := DBCBNameDev.Items[StrToInt(DBEditIdDev.Text) - 1];

CBIdDev.Text := DBEditIdDev.Text;

end;

end;

end.

UNewTask.dfm:

object FormNewTask: TFormNewTask

Left = 0

Top = 0

Caption = #1047#1072#1076#1072#1085#1080#1077

ClientHeight = 450

ClientWidth = 400

Color = clBtnFace

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -11

Font.Name = 'Tahoma'

Font.Style = []

OldCreateOrder = False

Position = poDesktopCenter

OnCreate = FormCreate

OnShow = FormShow

PixelsPerInch = 96

TextHeight = 13

object GBRecord: TGroupBox

Left = 0

Top = 0

Width = 400

Height = 185

Align = alTop

TabOrder = 0

DesignSize = (

400

185)

object LbNameTask: TLabel

Left = 5

Top = 3

Width = 64

Height = 13

Caption = #1048#1084#1103' '#1079#1072#1076#1072#1085#1080#1103

end

object LbStatus: TLabel

Left = 5

Top = 48

Width = 36

Height = 13

Caption = #1057#1090#1072#1090#1091#1089

end

object LbNameDev: TLabel

Left = 171

Top = 49

Width = 93

Height = 13

Caption = #1048#1084#1103' '#1088#1072#1079#1088#1072#1073#1086#1090#1095#1080#1082#1072

end

object LbDateNext: TLabel

Left = 5

Top = 100

Width = 130

Height = 13

Caption = #1044#1072#1090#1072' '#1085#1072#1095#1072#1083#1072' '#1074#1099#1087#1086#1083#1085#1077#1085#1080#1103

end

object LbDateEnd: TLabel

Left = 170

Top = 100

Width = 148

Height = 13

Caption = #1044#1072#1090#1072' '#1086#1082#1086#1085#1095#1072#1085#1080#1103' '#1074#1099#1087#1086#1083#1085#1077#1085#1080#1103

end

object LbTypeTask: TLabel

Left = 170

Top = 140

Width = 63

Height = 13

Caption = #1058#1080#1087' '#1079#1072#1076#1072#1085#1080#1103

end

object LbIdDev: TLabel

Left = 275

Top = 49

Width = 104

Height = 13

Caption = #1085#1086#1084#1077#1088' '#1088#1072#1079#1088#1072#1073#1086#1090#1095#1080#1082#1072

end

object DBEditNameTask: TDBEdit

Left = 5

Top = 20

Width = 390

Height = 21

Anchors = [akLeft, akTop, akRight]

DataField = 'nameTask'

DataSource = ModuleDBControl.DSTask

TabOrder = 0

end

object DBCBStatus: TDBComboBox

Left = 5

Top = 70

Width = 120

Height = 21

DataField = 'status'

DataSource = ModuleDBControl.DSTask

Items.Strings = (

'-'

#1085#1072#1079#1085#1072#1095#1077#1085#1086

#1075#1086#1090#1086#1074#1086

#1074' '#1088#1072#1079#1088#1072#1073#1086#1090#1082#1077

#1090#1077#1089#1090)

TabOrder = 1

end

object DateTimePickerDateNext: TDateTimePicker

Left = 5

Top = 115

Width = 120

Height = 21

Date = 43031.544004930550000000

Time = 43031.544004930550000000

TabOrder = 2

OnChange = DateTimePickerDateNextChange

end

object DateTimePickerDateEnd: TDateTimePicker

Left = 170

Top = 115

Width = 120

Height = 21

Date = 43031.544004930550000000

Time = 43031.544004930550000000

TabOrder = 3

OnChange = DateTimePickerDateEndChange

end

object DBEditIdDev: TDBEdit

Left = 275

Top = 68

Width = 40

Height = 21

DataField = 'idDev'

DataSource = ModuleDBControl.DSTask

Enabled = False

TabOrder = 4

end

object CBIdDev: TComboBox

Left = 321

Top = 70

Width = 49

Height = 21

Enabled = False

TabOrder = 5

Visible = False

end

object DBCBNameDev: TDBComboBox

Left = 170

Top = 70

Width = 70

Height = 21

DataField = 'nameDev'

DataSource = ModuleDBControl.DSTask

TabOrder = 6

OnChange = DBCBNameDevChange

end

object DBCBTypeTask: TDBComboBox

Left = 170

Top = 155

Width = 120

Height = 21

DataField = 'typeTask'

DataSource = ModuleDBControl.DSTask

Items.Strings = (

#1079#1072#1103#1074#1082#1072

#1086#1096#1080#1073#1082#1072

#1088#1077#1092#1072#1082#1090#1086#1088#1080#1085#1075

#1090#1077#1089#1090#1080#1088#1086#1074#1072#1085#1080#1077

#1076#1086#1082#1091#1084#1077#1085#1090#1072#1094#1080#1103)

TabOrder = 7

end

end

object GBTask: TGroupBox

Left = 0

Top = 185

Width = 400

Height = 224

Align = alClient

Caption = #1047#1072#1076#1072#1085#1080#1103

TabOrder = 1

object DBMemoTask: TDBMemo

Left = 2

Top = 15

Width = 396

Height = 207

Align = alClient

DataField = 'task'

DataSource = ModuleDBControl.DSTask

TabOrder = 0

end

end

object PanelSaveAndExit: TPanel

Left = 0

Top = 409

Width = 400

Height = 41

Align = alBottom

TabOrder = 2

object cxBtSaveEndExit: TcxButton

Left = 1

Top = 1

Width = 398

Height = 39

Align = alClient

Caption = #1057#1086#1093#1088#1072#1085#1080#1090#1100' '#1080' '#1074#1099#1081#1090#1080

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

OptionsImage.ImageIndex = 1

OptionsImage.Images = ModuleImg.ImageListCommon

TabOrder = 0

OnClick = cxBtSaveEndExitClick

end

end

end

UDeleteTask.pas:

unit UDeleteTask;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, StdCtrls, ExtCtrls, cxGraphics, cxLookAndFeels, cxLookAndFeelPainters, Menus, dxSkinsCore, xButtons;

type

TFormDeleteTask = class(TForm)

Panel: TPanel;

EditReadPassword: TEdit;

cxBtReadPassword: TcxButton;

LbReadPassworld: TLabel;

procedure FormShow(Sender: TObject);

procedure cxBtReadPasswordClick(Sender: TObject);

procedure EditReadPasswordKeyPress(Sender: TObject; var Key: Char);

private

tempPassword:String;

public

end;

var

FormDeleteTask: TFormDeleteTask;

implementation

uses MDBControl, MImg;

procedure TFormDeleteTask.cxBtReadPasswordClick(Sender: TObject);

var

passworld: String;

begin

passworld := 'пароль';

if tempPassword = passworld then

begin

ModuleDBControl.QueryTask.Delete;

FormDeleteTask.Close;

end

else

begin

EditReadPassword.Text := '';

tempPassword:='';

LbReadPassworld.Font.Color := clRed;

LbReadPassworld.Caption := 'Неправильный пароль. Попробуй еще раз.';

end;

end;

procedure TFormDeleteTask.EditReadPasswordKeyPress(Sender: TObject;

var Key: Char);

begin

case key of

#13:

cxBtReadPasswordClick(self);

#8:

delete(tempPassword, length(tempPassword), 1);

else

begin

tempPassword:=tempPassword+key;

key:='\*';

end;

end;

end;

procedure TFormDeleteTask.FormShow(Sender: TObject);

begin

LbReadPassworld.Font.Color := clWindowText;

LbReadPassworld.Caption := 'Введите пароль';

EditReadPassword.Text := '';

end;

end.

UDeleteTask.dfm:

object FormDeleteTask: TFormDeleteTask

Left = 0

Top = 0

BorderStyle = bsDialog

Caption = #1059#1076#1072#1083#1080#1090#1100' '#1079#1072#1076#1072#1085#1080#1077

ClientHeight = 43

ClientWidth = 346

Color = clBtnFace

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -11

Font.Name = 'Tahoma'

Font.Style = []

OldCreateOrder = False

Position = poDesktopCenter

OnShow = FormShow

PixelsPerInch = 96

TextHeight = 13

object Panel: TPanel

Left = 0

Top = 0

Width = 346

Height = 43

Align = alClient

TabOrder = 0

object LbReadPassworld: TLabel

Left = 1

Top = 1

Width = 344

Height = 19

Align = alTop

Alignment = taCenter

Caption = #1042#1074#1077#1076#1080#1090#1077' '#1087#1072#1088#1086#1083#1100

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -16

Font.Name = 'Tahoma'

Font.Style = []

ParentFont = False

ExplicitWidth = 116

end

object EditReadPassword: TEdit

Left = 1

Top = 20

Width = 272

Height = 22

Align = alLeft

TabOrder = 0

Text = 'EditReadPassword'

OnKeyPress = EditReadPasswordKeyPress

ExplicitHeight = 21

end

object cxBtReadPassword: TcxButton

Left = 270

Top = 20

Width = 75

Height = 22

Align = alRight

Caption = #1091#1076#1072#1083#1080#1090#1100

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

OptionsImage.ImageIndex = 0

OptionsImage.Images = ModuleImg.ImageListCommon

TabOrder = 1

OnClick = cxBtReadPasswordClick

end

end

end

FRecordTask.pas:

unit FRecordTask;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, ExtCtrls, DBCtrls, Grids, DBGrids, Menus,StdCtrls;

type

TFrameRecordTask = class(TFrame)

DBGridTask: TDBGrid;

DBMemoTask: TDBMemo;

Splitter1: TSplitter;

procedure DBGridTaskDblClick(Sender: TObject);

procedure DBGridTaskTitleClick(Column: TColumn);

private

public

end;

implementation

uses MDBControl, UMain, UNewTask;

procedure TFrameRecordTask.DBGridTaskDblClick(Sender: TObject);

begin

FormNewTask.Show;

end;

procedure TFrameRecordTask.DBGridTaskTitleClick(Column: TColumn);

begin

with ModuleDBControl.QueryTask do

begin

if Sort = Column.FieldName + ' ASC' then

Sort := Column.FieldName + ' DESC'

else

Sort := Column.FieldName + ' ASC';

end;

end;

end.

FRecordTask.dfm:

object FrameRecordTask: TFrameRecordTask

Left = 0

Top = 0

Width = 1200

Height = 400

TabOrder = 0

object Splitter1: TSplitter

Left = 927

Top = 0

Height = 400

Align = alRight

ExplicitLeft = 824

ExplicitTop = 144

ExplicitHeight = 100

end

object DBGridTask: TDBGrid

Left = 0

Top = 0

Width = 927

Height = 400

Align = alClient

Color = clBtnFace

Ctl3D = False

DataSource = ModuleDBControl.DSTask

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -16

Font.Name = 'Tahoma'

Font.Style = []

Options = [dgTitles, dgIndicator, dgColumnResize, dgColLines, dgRowLines, dgTabs, dgAlwaysShowSelection, dgConfirmDelete, dgCancelOnExit, dgTitleClick, dgTitleHotTrack]

ParentCtl3D = False

ParentFont = False

ReadOnly = True

TabOrder = 0

TitleFont.Charset = DEFAULT\_CHARSET

TitleFont.Color = clWindowText

TitleFont.Height = -19

TitleFont.Name = 'Tahoma'

TitleFont.Style = []

OnDblClick = DBGridTaskDblClick

OnTitleClick = DBGridTaskTitleClick

Columns = <

item

Expanded = False

FieldName = 'id'

Title.Caption = #1088#1077#1074#1080#1079#1080#1103

Width = 80

Visible = True

end

item

Expanded = False

FieldName = 'nameTask'

Title.Caption = #1048#1084#1103' '#1079#1072#1076#1072#1085#1080#1103

Width = 130

Visible = True

end

item

Expanded = False

FieldName = 'status'

Title.Caption = #1057#1090#1072#1090#1091#1089

Width = 70

Visible = True

end

item

Expanded = False

FieldName = 'typeTask'

Title.Caption = #1058#1080#1087' '#1079#1072#1076#1072#1085#1080#1103

Width = 120

Visible = True

end

item

Expanded = False

FieldName = 'dateNext'

Title.Caption = #1085#1072#1095#1072#1083#1086

Width = 90

Visible = True

end

item

Expanded = False

FieldName = 'dateEnd'

Title.Caption = #1086#1082#1086#1085#1095#1072#1085#1080#1077

Width = 100

Visible = True

end

item

Expanded = False

FieldName = 'nameDev'

Title.Caption = #1085#1072#1079'. '#1088#1072#1079#1088'.'

Width = 100

Visible = True

end

item

Expanded = False

FieldName = 'appraisal'

Title.Caption = #1086#1094#1077#1085#1082#1072

Width = 70

Visible = True

end>

end

object DBMemoTask: TDBMemo

Left = 930

Top = 0

Width = 270

Height = 400

Align = alRight

DataField = 'task'

DataSource = ModuleDBControl.DSTask

Font.Charset = DEFAULT\_CHARSET

Font.Color = clWindowText

Font.Height = -16

Font.Name = 'Tahoma'

Font.Style = []

ParentFont = False

ReadOnly = True

TabOrder = 1

end

end

FMainTask.pas:

unit FMainTask;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms, Dialogs, ExtCtrls, FRecordTask, FRecordDev, StdCtrls, Mask, DBCtrls, Menus, ImgList, cxGraphics, cxLookAndFeels, cxLookAndFeelPainters, dxSkinsCore, cxButtons, cxClasses, cxPropertiesStore;

type

TFrameMainTask = class(TFrame)

PanelFun: TPanel;

PanelDev: TPanel;

PanelTask: TPanel;

FrameRecordTask: TFrameRecordTask;

DBEditRelationsTableDevAndTask: TDBEdit;

PMMain: TPopupMenu;

CBSortStatus: TComboBox;

LbSortStatus: TLabel;

PMPanelTask: TPopupMenu;

addrecord2: TMenuItem;

editrecord2: TMenuItem;

deleterecord2: TMenuItem;

N1: TMenuItem;

cxBtAddRecord: TcxButton;

cxBtEditRecord: TcxButton;

cxBtDeleteRecord: TcxButton;

refresh1: TMenuItem;

refresh2: TMenuItem;

FrameRecordDev: TFrameRecordDev;

procedure CBSortStatusChange(Sender: TObject);

procedure DBEditRelationsTableDevAndTaskChange(Sender: TObject);

procedure cxBtAddRecordClick(Sender: TObject);

procedure cxBtEditRecordClick(Sender: TObject);

procedure cxBtDeleteRecordClick(Sender: TObject);

procedure refreshClick(Sender: TObject);

private

public

end;

implementation

uses MDBControl, UDeleteTask, UNewTask, MImg, UMain;

procedure TFrameMainTask.CBSortStatusChange(Sender: TObject);

var statusNew:string;

begin

statusNew:= QuotedStr(CBSortStatus.Text);

with ModuleDBControl.QueryTask do

begin

Close;

SQL.Clear;

SQL.Text:=

'Select t.\* ' +

'From task t ' +

'Where status = ' + statusNew;

Open;

end;

end;

procedure TFrameMainTask.cxBtAddRecordClick(Sender: TObject);

begin

ModuleDBControl.QueryTask.Append;

FormNewTask.Show;

end;

procedure TFrameMainTask.cxBtDeleteRecordClick(Sender: TObject);

begin

FormDeleteTask.ShowModal;

end;

procedure TFrameMainTask.cxBtEditRecordClick(Sender: TObject);

begin

FormNewTask.Show;

end;

procedure TFrameMainTask.DBEditRelationsTableDevAndTaskChange(Sender: TObject);

const

DEFAULT\_IDDEV = '1';

var

idDev: String;

begin

idDev := DBEditRelationsTableDevAndTask.Text;

if idDev = '' then

idDev := DEFAULT\_IDDEV;

with ModuleDBControl.QueryTask do

begin

Close;

SQL.Clear;

SQL.Text:=

'Select t.\* ' +

'From task t ' +

'Where idDev = ' + idDev;

Open;

end;

end;

procedure TFrameMainTask.refreshClick(Sender: TObject);

begin

FormMain.refresh1Click(self);

end;

end.

FMainTask.dfm:

object FrameMainTask: TFrameMainTask

Left = 0

Top = 0

Width = 1042

Height = 667

PopupMenu = PMMain

TabOrder = 0

object PanelFun: TPanel

Left = 0

Top = 0

Width = 1042

Height = 105

Align = alTop

TabOrder = 0

object LbSortStatus: TLabel

Left = 155

Top = 5

Width = 123

Height = 13

Caption = #1089#1086#1088#1090#1080#1088#1086#1074#1072#1090#1100' '#1087#1086' '#1089#1090#1072#1090#1091#1089#1091

end

object CBSortStatus: TComboBox

Left = 155

Top = 25

Width = 120

Height = 22

Style = csOwnerDrawVariable

TabOrder = 0

OnChange = CBSortStatusChange

Items.Strings = (

'-'

#1085#1072#1079#1085#1072#1095#1077#1085#1086

#1075#1086#1090#1086#1074#1086

#1074' '#1088#1072#1079#1088#1072#1073#1086#1090#1082#1077

#1090#1077#1089#1090)

end

object cxBtAddRecord: TcxButton

Left = 1

Top = 3

Width = 145

Height = 25

Caption = #1076#1086#1073#1072#1074#1080#1090#1100' '#1079#1072#1076#1072#1085#1080#1077

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

OptionsImage.ImageIndex = 0

OptionsImage.Images = ModuleImg.ImageListMainTask

TabOrder = 1

OnClick = cxBtAddRecordClick

end

object cxBtEditRecord: TcxButton

Left = 1

Top = 34

Width = 145

Height = 25

Caption = #1088#1077#1076#1072#1082#1090#1080#1088#1086#1074#1072#1090#1100' '#1079#1072#1076#1072#1085#1080#1077

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

OptionsImage.ImageIndex = 2

OptionsImage.Images = ModuleImg.ImageListMainTask

TabOrder = 2

OnClick = cxBtEditRecordClick

end

object cxBtDeleteRecord: TcxButton

Left = 1

Top = 65

Width = 145

Height = 25

Caption = #1091#1076#1072#1083#1080#1090#1100' '#1079#1072#1076#1072#1085#1080#1077

LookAndFeel.NativeStyle = False

LookAndFeel.SkinName = 'DevExpressStyle'

OptionsImage.ImageIndex = 1

OptionsImage.Images = ModuleImg.ImageListMainTask

TabOrder = 3

OnClick = cxBtDeleteRecordClick

end

end

object PanelDev: TPanel

Left = 0

Top = 105

Width = 1042

Height = 155

Align = alTop

TabOrder = 1

inline FrameRecordDev: TFrameRecordDev

Left = 1

Top = 1

Width = 1040

Height = 153

Align = alClient

TabOrder = 0

ExplicitLeft = -158

ExplicitTop = 5

inherited DBGridDev: TDBGrid

Width = 1040

Height = 153

end

end

end

object PanelTask: TPanel

Left = 0

Top = 260

Width = 1042

Height = 407

Align = alClient

PopupMenu = PMPanelTask

TabOrder = 2

inline FrameRecordTask: TFrameRecordTask

Left = 1

Top = 1

Width = 1040

Height = 405

Align = alClient

TabOrder = 0

ExplicitLeft = 1

ExplicitTop = 1

ExplicitWidth = 1040

ExplicitHeight = 405

inherited Splitter1: TSplitter

Left = 767

Height = 405

ExplicitLeft = 757

ExplicitTop = 0

ExplicitHeight = 298

end

inherited DBGridTask: TDBGrid

Width = 767

Height = 405

Touch.InteractiveGestures = [igZoom, igPan, igPressAndTap]

Touch.ParentTabletOptions = False

end

inherited DBMemoTask: TDBMemo

Left = 770

Height = 405

ExplicitLeft = 770

ExplicitHeight = 405

end

end

end

object DBEditRelationsTableDevAndTask: TDBEdit

Left = 64

Top = 136

Width = 121

Height = 21

DataField = 'id'

DataSource = ModuleDBControl.DSDev

TabOrder = 3

Visible = False

OnChange = DBEditRelationsTableDevAndTaskChange

end

object PMMain: TPopupMenu

Images = ModuleImg.ImageListMainTask

Left = 480

Top = 8

object refresh1: TMenuItem

Caption = #1086#1073#1085#1086#1074#1080#1090#1100

ImageIndex = 3

OnClick = refreshClick

end

end

object PMPanelTask: TPopupMenu

Images = ModuleImg.ImageListMainTask

Left = 424

Top = 8

object refresh2: TMenuItem

Caption = #1086#1073#1085#1086#1074#1080#1090#1100

ImageIndex = 3

OnClick = refreshClick

end

object N1: TMenuItem

Caption = '-'

end

object addrecord2: TMenuItem

Caption = #1076#1086#1073#1072#1074#1080#1090#1100' '#1079#1072#1076#1072#1085#1080#1077

ImageIndex = 0

OnClick = cxBtAddRecordClick

end

object editrecord2: TMenuItem

Caption = #1088#1077#1076#1072#1082#1090#1080#1088#1086#1074#1072#1090#1100' '#1079#1072#1076#1072#1085#1080#1077

ImageIndex = 2

OnClick = cxBtEditRecordClick

end

object deleterecord2: TMenuItem

Caption = #1091#1076#1072#1083#1080#1090#1100' '#1079#1072#1076#1072#1085#1080#1077

ImageIndex = 1

OnClick = cxBtDeleteRecordClick

end

end

end

ЗАКЛЮЧЕНИЕ

В результате курсовой работы были выполнены следующие этапы:

* изучение и разработка технического задания,
* разработка программы в Borland Developer Studio 2010,
* тестирование и устранение ошибок.

В процессе курсовой работы были использованы стандартные компоненты программы Borland Developer Studio 2010 и сторонние компоненты библиотеки [DevExpress](https://axoft.ru/vendors/DeveloperExpress/WinForms/) 17.1.2 с добавлением обработчиков событий на языке программирования Delphi.

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