**ФКПОУ «НТТИ» Минтруда России**

**ОТЧЕТ**

**о практической работе №5**

по МДК 01.02 (ПМ.01)

**Инструментальные средства разработки**

|  |  |  |  |
| --- | --- | --- | --- |
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**2018**

**Практическая работ №4**

**Тема 2.1** Общие понятия и назначение инструментальных средств разработки программного обеспечения

**Название работы: Работа с данными в приложениях WindowsForms. Технология ADO.NET.**

**Цель работы:** изучить возможности технологии ADO.NET для работы с данными в приложениях Windows Forms.

**Задание 1**

Разработать автоматизированную информационную систему (АИС) учета движения книжной литературы (поступления, выдачи и списания) для библиотеки РГЭУ (РИНХ).

**Решение**

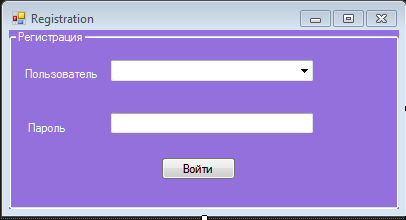


Рисунок 1 – Дизайн формы регистрации

Код формы:

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace Library

{

public partial class Registration : Form

{

public Registration()

{

InitializeComponent();

}

private void button1\_Click(object sender, EventArgs e)

{

if (comboBox1.SelectedIndex == 0)

{

if (textBox1.Text == "123")

{

FMain frm = new FMain();

frm.Text = "Library 1.0 Добро подаловать";

frm.ShowDialog();

}

else

{

MessageBox.Show("Для пользователя " + comboBox1.Text + " пароль не верный");

}

}

if (comboBox1.SelectedIndex == 1)

{

if (textBox1.Text == "321")

{

FMain frm = new FMain();

frm.Text = "Library 1.0 Добро пожаловать";

frm.ShowDialog();

}

else

{

MessageBox.Show("Для пользователя " + comboBox1.Text + " пароль не верный");

}

}

}

}

}

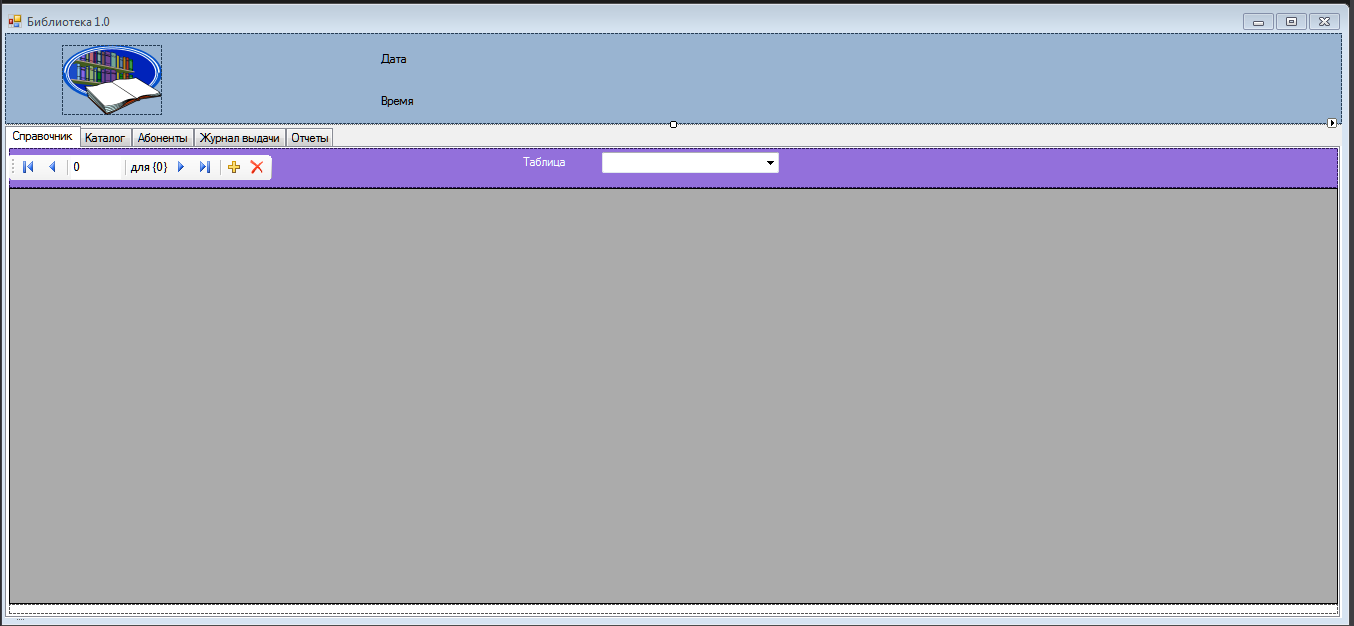


Рисунок 2 – Дизайн страницы Справочники

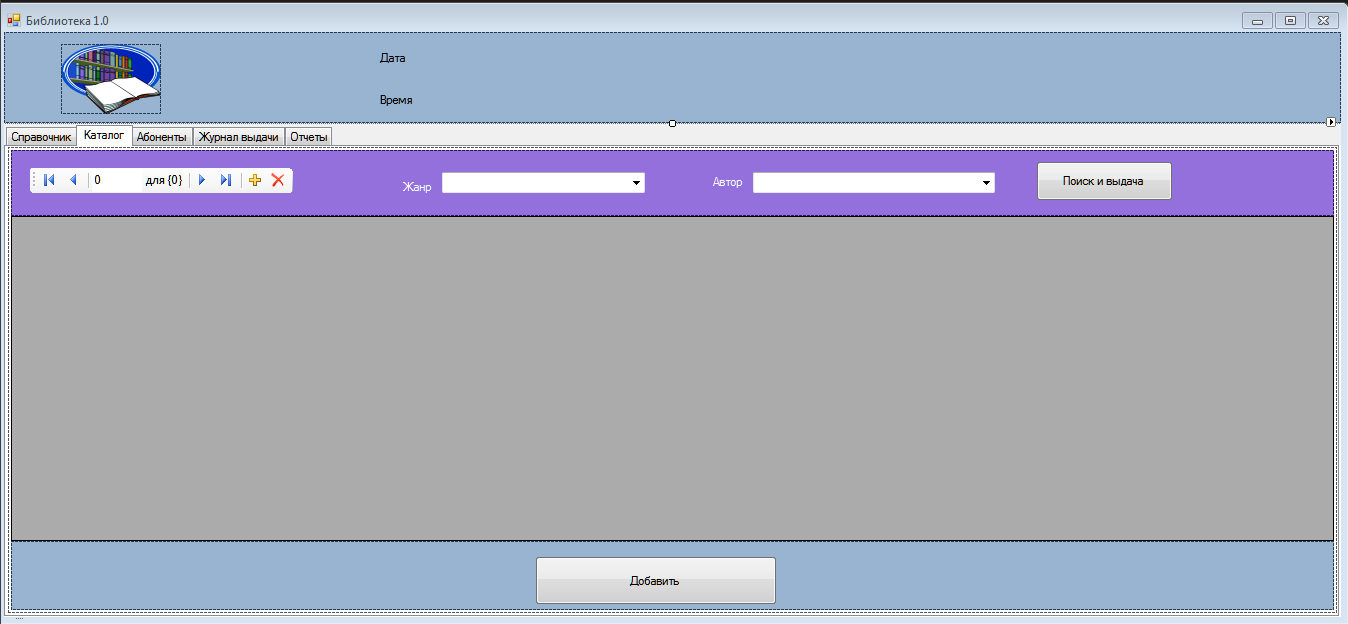


Рисунок 3 – Дизайн страницы Каталог

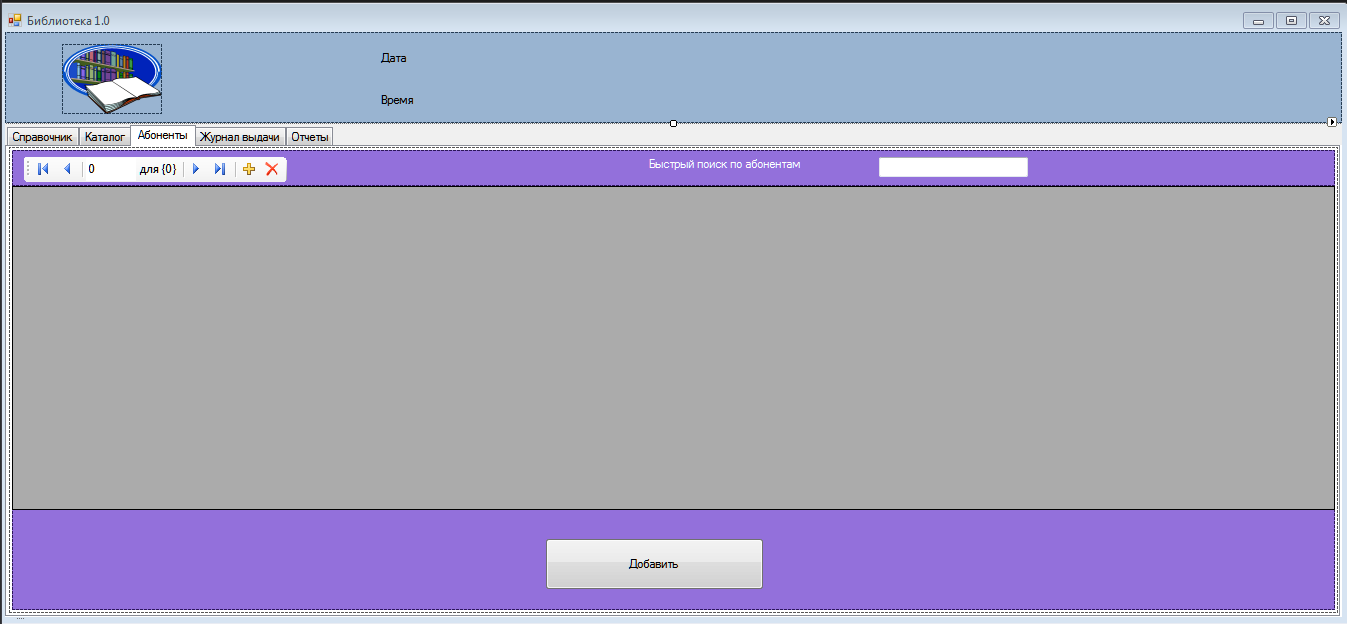


Рисунок 4 – Дизайн страницы Абоненты

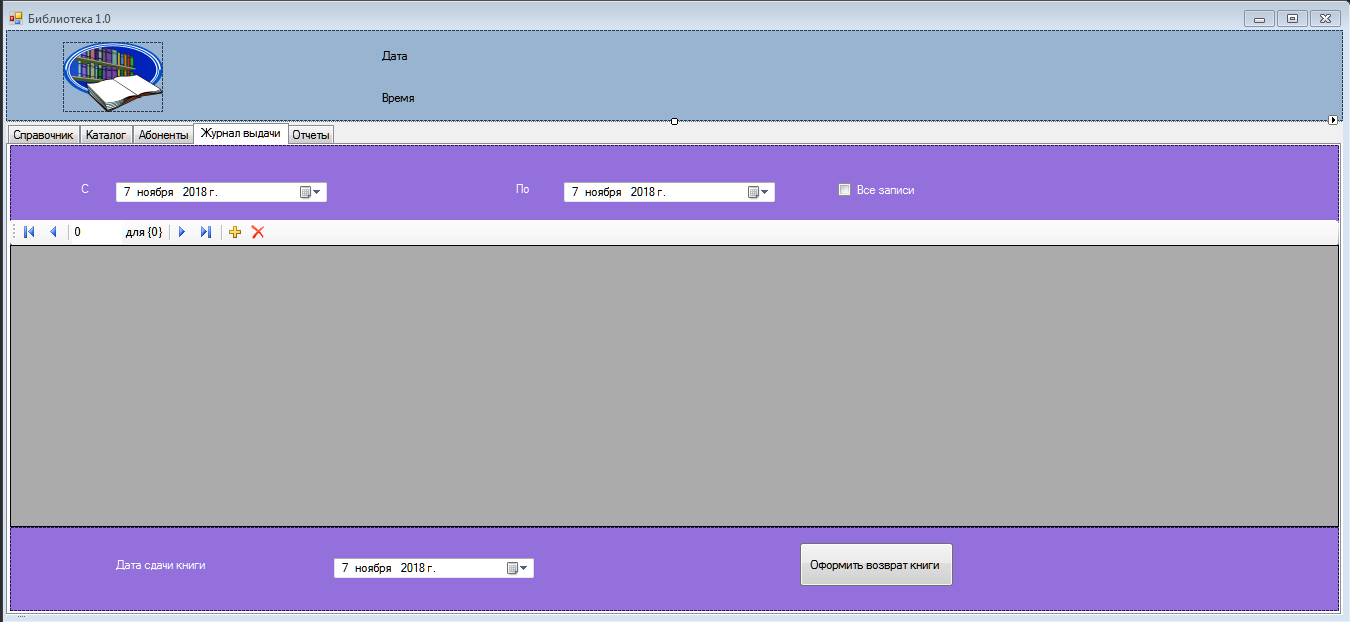


Рисунок 5 – Дизайн страницы Журнал выдачи

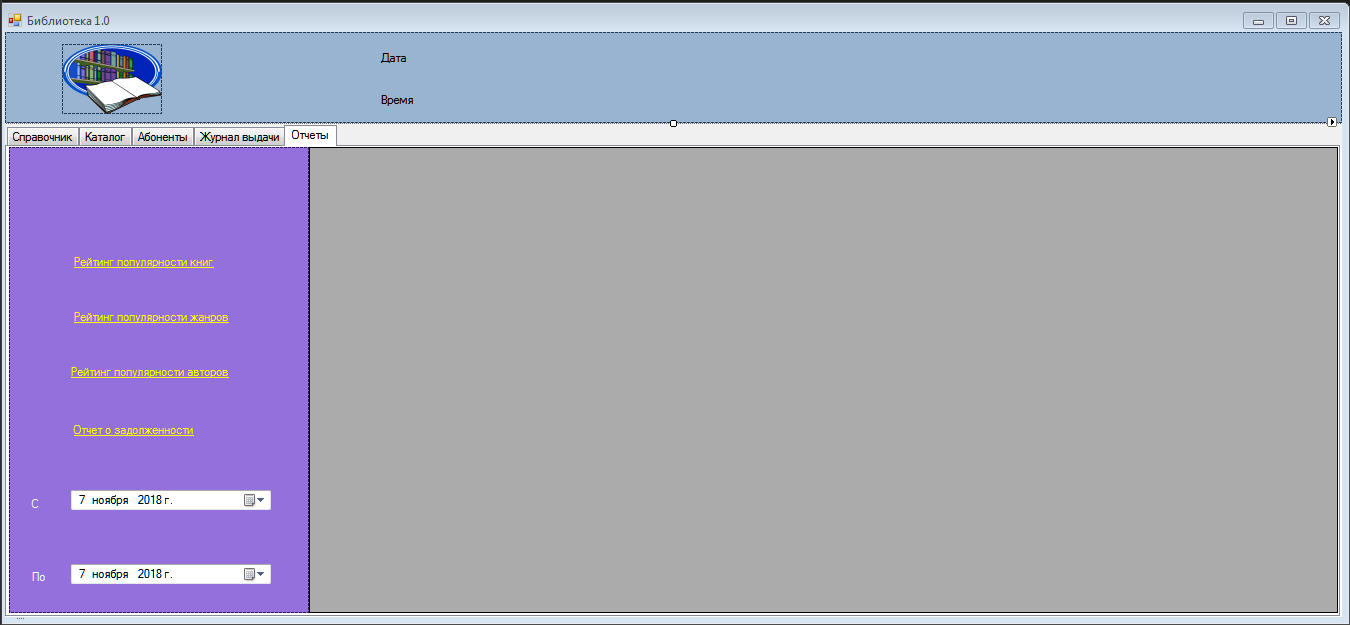


Рисунок 6 – Дизайн страницы Отчеты

Код главной формы приложения:

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

using System.Data.OleDb;

using System.Data.SqlClient;

using System.Configuration;

namespace Library

{

public partial class FMain : Form

{

public FMain()

{

InitializeComponent();

SelfRef = this;

SqlConnectionStringBuilder csBuilder = new SqlConnectionStringBuilder(ConfigurationManager.ConnectionStrings["SQLServer"].ConnectionString);

string ServerName = csBuilder.DataSource;

string DBName = csBuilder.InitialCatalog;

connectionString = "Data Source=" + ServerName + "; Initial Catalog = " + DBName + "; Integrated Security = True";

conn(connectionString, select\_Ganre, dataGridView1);

conn(connectionString, select\_Author, dataGridView1);

conn(connectionString, select\_Book, dataGridView3);

conn2(connectionString, select\_Ganre, comboBox2, "Название", "IDЖанра");

conn2(connectionString, select\_Author, comboBox3, "Имя", "IDАвтора");

conn(connectionString, select\_Reader, dataGridView2);

conn(connectionString, query\_delivery, dataGridView4);

}

public static FMain SelfRef

{

get;

set;

}

public string query\_a = "";

public string query\_g = "";

public string connectionString = "";

const string select\_Ganre = "SELECT ID\_Genre AS IDЖанра, Name\_G as Название FROM Ganre";

const string select\_Author = "SELECT ID\_Author as IDАвтора, Name\_Author as Имя FROM Author";

const string select\_Book = "SELECT Book.ID\_Book AS ID, Book.Name\_B AS Название, Author.Name\_Author AS Автор, Ganre.Name\_G AS Жанр, " +

"Book.Sourse AS Источник, kol AS Количество, Book.Price AS Цена, Book.Publisher AS Издательство, Book.Number\_of\_Pages AS [Кол-во стр]," +

" Book.Year\_of\_Pub AS [Год издания] FROM Author,Ganre,Book WHERE Author.ID\_Author = Book.ID\_Author AND Book.ID\_Genre =Ganre.ID\_Genre";

const string select\_Reader = "Select id\_Reader AS [ID читателя], Name\_R as ФИО, Date\_B AS[Дата рождения], Adres as Адрес, Tel as Телефон, " +

"Date\_R AS [Дата регистрации] from Reader";

public string query\_delivery = "SELECT Delivery.ID\_Delivery AS [№пп],Reader.Name\_R AS [ФИО абонента],Doc.ID\_Doc AS [рег. №],Delivery.Date\_D AS [Дата выдачи],Delivery.Date\_Return\_Plan AS [План.дата возврата],Delivery.Date\_Return\_Fact AS [Факт.дата возврата] FROM Delivery INNER JOIN READER ON Delivery.ID\_Reader=Reader.ID\_Reader INNER JOIN Doc ON Delivery.ID\_Doc=Doc.ID\_Doc";

public void conn(string CS, string cmdT, DataGridView dgv)

{

SqlDataAdapter Adapter = new SqlDataAdapter(cmdT, CS);

DataSet ds = new DataSet();

Adapter.Fill(ds, "Table");

dgv.DataSource = ds.Tables["Table"].DefaultView;

}

public void conn2(string CS, string cmdT, ComboBox CB, string field1, string field2)

{

SqlDataAdapter Adapter = new SqlDataAdapter(cmdT, CS);

DataSet ds = new DataSet();

Adapter.Fill(ds, "Table");

CB.DataSource = ds.Tables["Table"];

CB.DisplayMember = field1;

CB.ValueMember = field2;

}

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

{

lblDate.Text = "Сегодня " + DateTime.Now.ToShortDateString();

lblTime.Text = "Время " + DateTime.Now.ToLongTimeString();

}

private void timer1\_Tick(object sender, EventArgs e)

{

lblTime.Text = "Время " + DateTime.Now.ToLongTimeString();

timer1.Start();

}

private void comboBox1\_SelectedIndexChanged(object sender, EventArgs e)

{

if (comboBox1.SelectedIndex == 0)

{

conn(connectionString, select\_Ganre, dataGridView1);

}

if (comboBox1.SelectedIndex == 1)

{

conn(connectionString, select\_Author, dataGridView1);

}

}

private void comboBox2\_SelectedIndexChanged(object sender, EventArgs e)

{

conn2(connectionString, select\_Ganre, comboBox2, "Name\_G", "ID\_Genre");

}

private void comboBox3\_SelectedIndexChanged(object sender, EventArgs e)

{

conn2(connectionString, select\_Author, comboBox3, "Name\_Author", "ID\_Author");

}

private void comboBox2\_SelectedValueChanged(object sender, EventArgs e)

{

if (Convert.ToString(comboBox2.SelectedValue) != "System.Data.DataRowView")

{

string select\_Book = "SELECT Book.ID\_Book AS ID, Book.Name\_B AS Название, Author.Name\_Author AS Автор, Ganre.Name\_G AS Жанр, " +

"Book.Sourse AS Источник, COUNT(ID\_Book) AS Количество, Book.Price AS Цена, Book.Publisher AS Издательство, Book.Number\_of\_Pages AS [Кол-во стр]," +

" Book.Year\_of\_Pub AS [Год издания] FROM Author,Ganre,Book WHERE Author.ID\_Author = Book.ID\_Author AND Book.ID\_Genre =Ganre.ID\_Genre and Ganre.ID\_Genre = " + Convert.ToString(comboBox2.SelectedValue) +

" GROUP BY Book.ID\_Book, Book.Name\_B, Author.Name\_Author, Ganre.Name\_G, Book.Sourse, Book.Price , Book.Publisher , Book.Number\_of\_Pages, Book.Year\_of\_Pub";

query\_g = select\_Book;

}

else query\_g = select\_Book;

conn(connectionString, query\_g, dataGridView3);

}

private void comboBox3\_SelectedValueChanged(object sender, EventArgs e)

{

if (Convert.ToString(comboBox3.SelectedValue) != "System.Data.DataRowView")

{

string select\_Book = "SELECT Book.ID\_Book AS ID, Book.Name\_B AS Название, Author.Name\_Author AS Автор, Ganre.Name\_G AS Жанр, " +

"Book.Sourse AS Источник, COUNT(ID\_Book) AS Количество, Book.Price AS Цена, Book.Publisher AS Издательство, Book.Number\_of\_Pages AS [Кол-во стр]," +

" Book.Year\_of\_Pub AS [Год издания] FROM Author,Ganre,Book WHERE Author.ID\_Author = Book.ID\_Author AND Book.ID\_Genre =Ganre.ID\_Genre and Author.ID\_Author = " + Convert.ToString(comboBox3.SelectedValue) +

" GROUP BY Book.ID\_Book, Book.Name\_B, Author.Name\_Author, Ganre.Name\_G, Book.Sourse, Book.Price , Book.Publisher , Book.Number\_of\_Pages, Book.Year\_of\_Pub";

query\_a = select\_Book;

//MessageBox.Show(query\_g);

}

else query\_a = select\_Book;

conn(connectionString, query\_a, dataGridView3);

}

private void button2\_Click(object sender, EventArgs e)

{

Ins\_Book FIns\_I = new Ins\_Book();

FIns\_I.ShowDialog();

}

private void button1\_Click(object sender, EventArgs e)

{

Ins\_Book FIns\_I = new Ins\_Book();

FIns\_I.ShowDialog();

}

private void txtSearch\_TextChanged(object sender, EventArgs e)

{

string query\_r = select\_Reader;

if (txtSearch.Text!="")

{

query\_r = select\_Reader + " where Name\_R LIKE " + "'" + txtSearch.Text + "%" + "'";

}

else

{

query\_r = select\_Reader;

}

conn(connectionString, query\_r, dataGridView2);

}

private void button2\_Click\_1(object sender, EventArgs e)

{

Add\_reader abon = new Add\_reader();

abon.ShowDialog();

}

private void button4\_Click(object sender, EventArgs e)

{

Search sch = new Search();

sch.ShowDialog();

}

private void dateTimePicker1\_ValueChanged(object sender, EventArgs e)

{

string query\_d = "";

query\_d = query\_delivery + " where delivery.date\_d >= " +

"'" + dateTimePicker1.Value + "'" ;

conn(connectionString, query\_d, dataGridView4);

checkBox1.Checked = false;

}

private void checkBox1\_CheckedChanged(object sender, EventArgs e)

{

if (checkBox1.Checked)

{

conn(connectionString, query\_delivery, dataGridView4);

}

}

private void button3\_Click(object sender, EventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[Upd\_Delivary]";

cmd.Parameters.Add("@Date\_Return\_Fact", SqlDbType.Date, 150);

cmd.Parameters["@Date\_Return\_Fact"].Value = dateTimePicker3.Value;

cmd.Parameters.Add("@ID\_Delivery", SqlDbType.Int, 4);

string ID\_Delivery = dataGridView4[0, dataGridView4.CurrentRow.Index].Value.ToString();

cmd.Parameters["@ID\_Delivery"].Value = ID\_Delivery;

cmd.Parameters.Add("@ID\_Doc", SqlDbType.Int, 4);

string ID\_Doc= dataGridView4[2, dataGridView4.CurrentRow.Index].Value.ToString();

cmd.Parameters["@ID\_Doc"].Value = ID\_Doc;

cmd.ExecuteNonQuery();

MessageBox.Show("Изменения внесены.", "Добавление записей");

conn(connectionString, query\_delivery, dataGridView4);

}

private void linkLabel1\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[REPORT\_1]";

cmd.Parameters.Add("@D1", SqlDbType.Date, 4);

cmd.Parameters["@D1"].Value = dateTimePicker4.Value;

cmd.Parameters.Add("@D2", SqlDbType.Date, 4);

cmd.Parameters["@D2"].Value = dateTimePicker5.Value;

SqlDataAdapter ReportAdapter = new SqlDataAdapter();

ReportAdapter.SelectCommand = cmd;

DataSet dsReport = new DataSet();

ReportAdapter.Fill(dsReport, "Report");

dataGridView5.DataSource = dsReport.Tables["Report"].DefaultView;

}

private void linkLabel2\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[REPORT\_2]";

cmd.Parameters.Add("@D1", SqlDbType.Date, 4);

cmd.Parameters["@D1"].Value = dateTimePicker4.Value;

cmd.Parameters.Add("@D2", SqlDbType.Date, 4);

cmd.Parameters["@D2"].Value = dateTimePicker5.Value;

SqlDataAdapter ReportAdapter = new SqlDataAdapter();

ReportAdapter.SelectCommand = cmd;

DataSet dsReport = new DataSet();

ReportAdapter.Fill(dsReport, "Report");

dataGridView5.DataSource = dsReport.Tables["Report"].DefaultView;

}

private void linkLabel3\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[REPORT\_3]";

cmd.Parameters.Add("@D1", SqlDbType.Date, 4);

cmd.Parameters["@D1"].Value = dateTimePicker4.Value;

cmd.Parameters.Add("@D2", SqlDbType.Date, 4);

cmd.Parameters["@D2"].Value = dateTimePicker5.Value;

SqlDataAdapter ReportAdapter = new SqlDataAdapter();

ReportAdapter.SelectCommand = cmd;

DataSet dsReport = new DataSet();

ReportAdapter.Fill(dsReport, "Report");

dataGridView5.DataSource = dsReport.Tables["Report"].DefaultView;

}

private void linkLabel4\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

SqlConnection conn1 = new SqlConnection();

conn1.ConnectionString = connectionString;

conn1.Open();

SqlCommand cmd = conn1.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[REPORT\_4]";

cmd.Parameters.Add("@D1", SqlDbType.Date, 4);

cmd.Parameters["@D1"].Value = dateTimePicker4.Value;

cmd.Parameters.Add("@D2", SqlDbType.Date, 4);

cmd.Parameters["@D2"].Value = dateTimePicker5.Value;

SqlDataAdapter ReportAdapter = new SqlDataAdapter();

ReportAdapter.SelectCommand = cmd;

DataSet dsReport = new DataSet();

ReportAdapter.Fill(dsReport, "Report");

dataGridView5.DataSource = dsReport.Tables["Report"].DefaultView;

}

private void dateTimePicker2\_ValueChanged(object sender, EventArgs e)

{

string query\_d = "";

query\_d = query\_delivery + " where delivery.date\_d <= " +

"'" + dateTimePicker2.Value + "'";

conn(connectionString, query\_d, dataGridView4);

checkBox1.Checked = false;

}

}

}

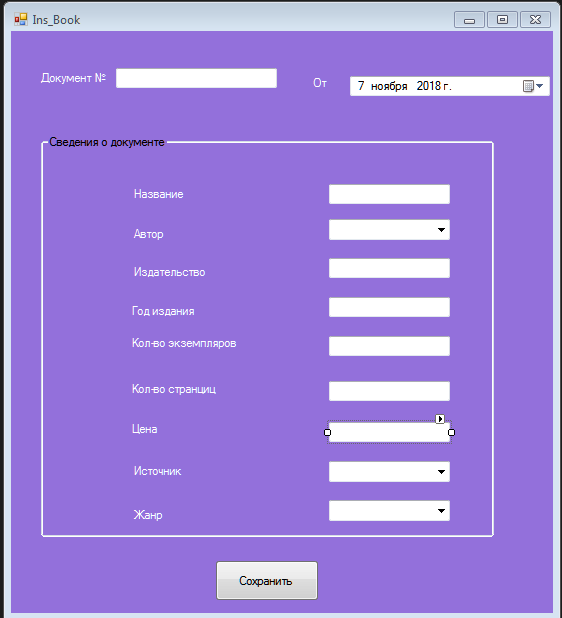


Рисунок 7 – Дизайн формы для ввода информации о партии книг и отдельных её экземпляров

Код формы:

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

using System.Data.SqlClient;

namespace Library

{

public partial class Ins\_Book : Form

{

public Ins\_Book()

{

InitializeComponent();

FMain.SelfRef.conn2( FMain.SelfRef.connectionString, select\_Ganre, comboBox2, "Название", "IDЖанра") ;

FMain.SelfRef.conn2(FMain.SelfRef.connectionString, select\_Author, comboBox3, "Имя", "IDАвтора");

}

const string select\_Ganre = "SELECT ID\_Genre AS IDЖанра, Name\_G as Название FROM Ganre";

const string select\_Author = "SELECT ID\_Author as IDАвтора, Name\_Author as Имя FROM Author";

const string select\_katalog = "SELECT Book.ID\_Book AS ID, Book.Name\_B AS Название, Author.Name\_Author AS Автор, Ganre.Name\_G AS Жанр, " +

"Book.Sourse AS Источник, kol AS Количество, Book.Price AS Цена, Book.Publisher AS Издательство, Book.Number\_of\_Pages AS [Кол-во стр]," +

" Book.Year\_of\_Pub AS [Год издания] FROM Author,Ganre,Book WHERE Author.ID\_Author = Book.ID\_Author AND Book.ID\_Genre =Ganre.ID\_Genre" ;

private void button1\_Click(object sender, EventArgs e)

{

SqlConnection conn = new SqlConnection();

conn.ConnectionString = FMain.SelfRef.connectionString;

conn.Open();

SqlCommand cmd = conn.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[ins\_Book]";

cmd.Parameters.Add("@NAME\_B", SqlDbType.NVarChar, 150);

cmd.Parameters["@NAME\_B"].Value = txtName.Text;

cmd.Parameters.Add("@SOURCE", SqlDbType.NVarChar, 70);

cmd.Parameters["@SOURCE"].Value = comboBox1.Text;

cmd.Parameters.Add("@DATE\_P", SqlDbType.Date, 70);

cmd.Parameters["@DATE\_P"].Value = dateTimePicker1.Value;

cmd.Parameters.Add("@COUNT", SqlDbType.Int, 4);

cmd.Parameters["@COUNT"].Value = Convert.ToInt32( txtCount.Text);

cmd.Parameters.Add("@PRICE", SqlDbType.Decimal, 5);

cmd.Parameters["@PRICE"].Value = Convert.ToDecimal(txtPrice.Text);

cmd.Parameters.Add("@ID\_GENRE", SqlDbType.Int, 4);

cmd.Parameters["@ID\_GENRE"].Value = comboBox2.SelectedValue;

cmd.Parameters.Add("@ID\_AUTHOR", SqlDbType.Int, 4);

cmd.Parameters["@ID\_AUTHOR"].Value = comboBox3.SelectedValue;

cmd.Parameters.Add("@PUBLISHER", SqlDbType.NVarChar, 150);

cmd.Parameters["@PUBLISHER"].Value = txtPub.Text;

cmd.Parameters.Add("@NAMBER\_PAGES", SqlDbType.Int, 4);

cmd.Parameters["@NAMBER\_PAGES"].Value = Convert.ToInt32( txtPageCount.Text);

cmd.Parameters.Add("@YEAR\_PUB", SqlDbType.Int, 4);

cmd.Parameters["@YEAR\_PUB"].Value = Convert.ToInt32(txtYear.Text);

cmd.Parameters.Add("@Id", SqlDbType.Int, 4);

cmd.Parameters["@Id"].Direction = ParameterDirection.Output;

cmd.ExecuteScalar();

int ID\_Book = Convert.ToInt32(cmd.Parameters["@id"].Value);

MessageBox.Show("Изменения внесены. ID= " + ID\_Book.ToString()+ "Добавление записей");

int Count\_Doc = Convert.ToInt32(txtCount.Text);

int k = 0;

for(int i=0; i<Count\_Doc;i++)

{

SqlCommand cmdd = conn.CreateCommand();

cmdd.CommandType = CommandType.StoredProcedure;

cmdd.CommandText = "[INS\_DOC]";

cmdd.Parameters.Add("@ID\_Book", SqlDbType.Int, 4);

cmdd.Parameters["@ID\_Book"].Value = ID\_Book;

cmdd.Parameters.Add("@Status", SqlDbType.Int, 4);

cmdd.Parameters["@Status"].Value = "0";

cmdd.ExecuteNonQuery();

k++;

}

MessageBox.Show("Изменения внесены. Добавлено документов - " + k, "Добавление записей");

if(FMain.SelfRef!=null)

{

FMain.SelfRef.conn(FMain.SelfRef.connectionString, select\_katalog, FMain.SelfRef.dataGridView3);

}

}

}

}

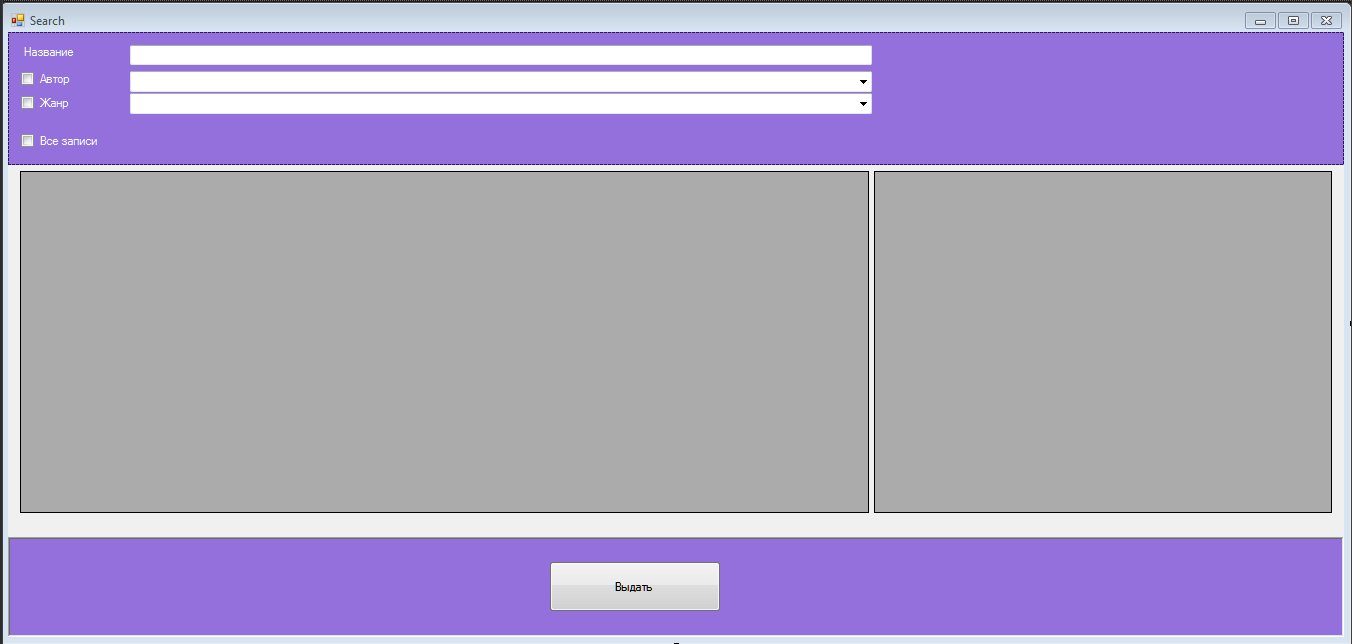


Рисунок 8 – Форма поиска книги для её выдачи

Код формы:

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

using System.Data.SqlClient;

namespace Library

{

public partial class Search : Form

{

public Search()

{

InitializeComponent();

FMain.SelfRef.conn(FMain.SelfRef.connectionString, select\_book, dataGridView1);

FMain.SelfRef.conn(FMain.SelfRef.connectionString, select\_doc, dataGridView2);

FMain.SelfRef.conn2(FMain.SelfRef.connectionString, select\_Ganre, comboBox2, "Название", "IDЖанра");

FMain.SelfRef.conn2(FMain.SelfRef.connectionString, select\_Author, comboBox1, "Имя", "IDАвтора");

SelfRef = this;

}

public string select\_book = "SELECT Book.ID\_Book AS ID, Book.Name\_B AS Название, Author.Name\_Author AS Автор, Ganre.Name\_G AS Жанр, " +

"Book.Sourse AS Источник, kol AS Количество, Book.Price AS Цена, Book.Publisher AS Издательство, Book.Number\_of\_Pages AS [Кол-во стр]," +

" Book.Year\_of\_Pub AS [Год издания] FROM Author,Ganre,Book WHERE Author.ID\_Author = Book.ID\_Author AND Book.ID\_Genre =Ganre.ID\_Genre";

public string select\_doc = "Select \* From Doc ";

string select\_Ganre = "SELECT ID\_Genre AS IDЖанра, Name\_G as Название FROM Ganre";

string select\_Author = "SELECT ID\_Author as IDАвтора, Name\_Author as Имя FROM Author";

string query\_g = "";

string query\_a = "";

public static Search SelfRef

{

get;

set;

}

private void dataGridView1\_CellMouseClick(object sender, DataGridViewCellMouseEventArgs e)

{

string query\_d = "";

string id\_book = dataGridView1[0, dataGridView1.CurrentRow.Index].Value.ToString();

query\_d = select\_doc + " WHERE Doc.id\_book=" + id\_book;

//MessageBox.Show(query\_d);

FMain.SelfRef.conn(FMain.SelfRef.connectionString, query\_d, dataGridView2);

}

private void textBox1\_TextChanged(object sender, EventArgs e)

{

string query\_b = select\_book;

if (textBox1.Text != "")

{

query\_b = select\_book + " and Name\_B LIKE " + "'" + textBox1.Text + "%" + "'";

}

else

{

query\_b = select\_book;

}

FMain.SelfRef.conn(FMain.SelfRef.connectionString, query\_b, dataGridView1);

}

private void comboBox1\_SelectedValueChanged(object sender, EventArgs e)

{

if (Convert.ToString(comboBox1.SelectedValue) != "System.Data.DataRowView")

{

string select\_Book = "SELECT Book.ID\_Book AS ID, Book.Name\_B AS Название, Author.Name\_Author AS Автор, Ganre.Name\_G AS Жанр, " +

"Book.Sourse AS Источник, COUNT(ID\_Book) AS Количество, Book.Price AS Цена, Book.Publisher AS Издательство, Book.Number\_of\_Pages AS [Кол-во стр]," +

" Book.Year\_of\_Pub AS [Год издания] FROM Author,Ganre,Book WHERE Author.ID\_Author = Book.ID\_Author AND Book.ID\_Genre =Ganre.ID\_Genre and Author.ID\_Author = " + Convert.ToString(comboBox1.SelectedValue) +

" GROUP BY Book.ID\_Book, Book.Name\_B, Author.Name\_Author, Ganre.Name\_G, Book.Sourse, Book.Price , Book.Publisher , Book.Number\_of\_Pages, Book.Year\_of\_Pub";

query\_a = select\_Book;

//MessageBox.Show(query\_g);

}

else

query\_a = select\_book;

FMain.SelfRef.conn(FMain.SelfRef.connectionString, query\_a, dataGridView1);

}

private void comboBox2\_SelectedIndexChanged(object sender, EventArgs e)

{

if (Convert.ToString(comboBox2.SelectedValue) != "System.Data.DataRowView")

{

string select\_Book = "SELECT Book.ID\_Book AS ID, Book.Name\_B AS Название, Author.Name\_Author AS Автор, Ganre.Name\_G AS Жанр, " +

"Book.Sourse AS Источник, COUNT(ID\_Book) AS Количество, Book.Price AS Цена, Book.Publisher AS Издательство, Book.Number\_of\_Pages AS [Кол-во стр]," +

" Book.Year\_of\_Pub AS [Год издания] FROM Author,Ganre,Book WHERE Author.ID\_Author = Book.ID\_Author AND Book.ID\_Genre =Ganre.ID\_Genre and Ganre.ID\_Genre = " + Convert.ToString(comboBox2.SelectedValue) +

" GROUP BY Book.ID\_Book, Book.Name\_B, Author.Name\_Author, Ganre.Name\_G, Book.Sourse, Book.Price , Book.Publisher , Book.Number\_of\_Pages, Book.Year\_of\_Pub";

query\_g = select\_Book;

}

else query\_g = select\_book;

FMain.SelfRef.conn(FMain.SelfRef.connectionString, query\_g, dataGridView1);

}

private void checkBox1\_CheckedChanged(object sender, EventArgs e)

{

if(checkBox1.Checked)

{

comboBox1.Enabled = true;

}

else

{

comboBox1.Enabled = false;

}

}

private void checkBox2\_CheckedChanged(object sender, EventArgs e)

{

if (checkBox2.Checked)

{

comboBox2.Enabled = true;

}

else

{

comboBox2.Enabled = false;

}

}

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

{

comboBox1.Enabled = false;

comboBox2.Enabled = false;

}

private void checkBox3\_CheckedChanged(object sender, EventArgs e)

{

if (checkBox3.Checked)

{

string query\_all = select\_book;

FMain.SelfRef.conn(FMain.SelfRef.connectionString, query\_all, dataGridView1);

}

}

private void button1\_Click(object sender, EventArgs e)

{

vydacha frm = new vydacha();

frm.textBox1.Text = dataGridView2[0, dataGridView2.CurrentRow.Index].Value.ToString();

frm.textBox2.Text = dataGridView1[2, dataGridView1.CurrentRow.Index].Value.ToString();

frm.textBox3.Text = dataGridView1[1, dataGridView1.CurrentRow.Index].Value.ToString();

frm.ShowDialog();

}

}

}

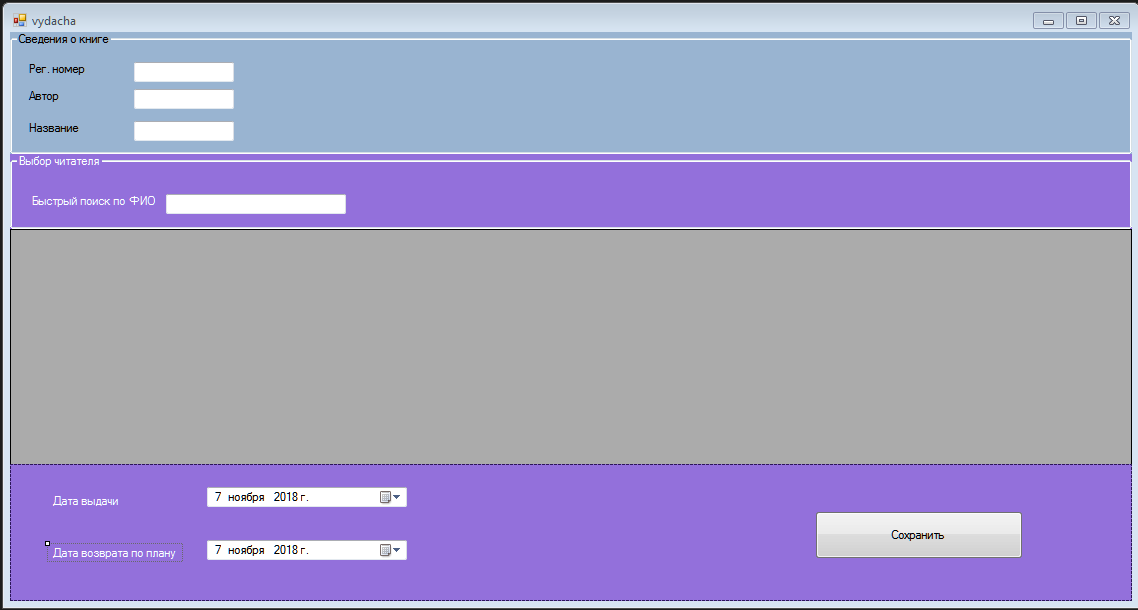


Рисунок 9 – Дизайн формы выдачи

Код формы:

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

using System.Data.SqlClient;

namespace Library

{

public partial class vydacha : Form

{

public vydacha()

{

InitializeComponent();

select\_r = "Select id\_Reader AS [ID читателя], Name\_R as ФИО, Date\_B AS[Дата рождения], Adres as Адрес, Tel as Телефон, " +

"Date\_R AS [Дата регистрации] from Reader";

FMain.SelfRef.conn(FMain.SelfRef.connectionString, select\_r, dataGridView1);

}

const string select\_doc = "Select \* From Doc ";

string select\_r = "";

string query\_r = "";

private void textBox4\_TextChanged(object sender, EventArgs e)

{

string query\_r = select\_r;

if (textBox4.Text != "")

{

query\_r = select\_r + " where Name\_R LIKE " + "'" + textBox4.Text + "%" + "'";

}

else

{

query\_r = select\_r;

}

FMain.SelfRef.conn(FMain.SelfRef.connectionString, query\_r, dataGridView1);

}

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

{

dateTimePicker1.Value = DateTime.Now;

dateTimePicker2.Value = DateTime.Now;

}

private void button1\_Click(object sender, EventArgs e)

{

SqlConnection conn = new SqlConnection();

conn.ConnectionString = FMain.SelfRef.connectionString;

conn.Open();

SqlCommand cmdd = conn.CreateCommand();

cmdd.CommandType = CommandType.StoredProcedure;

cmdd.CommandText = "[Ins\_Delivary]";

cmdd.Parameters.Add("@ID\_Doc", SqlDbType.Int, 4);

cmdd.Parameters["@ID\_Doc"].Value = textBox1.Text;

cmdd.Parameters.Add("@ID\_Reader", SqlDbType.Int, 4);

cmdd.Parameters["@ID\_Reader"].Value = dataGridView1[0,dataGridView1.CurrentRow.Index].Value.ToString();

cmdd.Parameters.Add("@Date\_D", SqlDbType.Date, 40);

cmdd.Parameters["@Date\_D"].Value = dateTimePicker1.Value;

cmdd.Parameters.Add("Date\_Return\_Plan", SqlDbType.Date, 40);

cmdd.Parameters["Date\_Return\_Plan"].Value = dateTimePicker2.Value;

cmdd.ExecuteNonQuery();

MessageBox.Show("Изменения внесены", "Добавление записей");

FMain.SelfRef.conn(FMain.SelfRef.connectionString, FMain.SelfRef.query\_delivery, dataGridView1);

FMain.SelfRef.conn(FMain.SelfRef.connectionString, select\_doc, Search.SelfRef.dataGridView2);

}

}

}

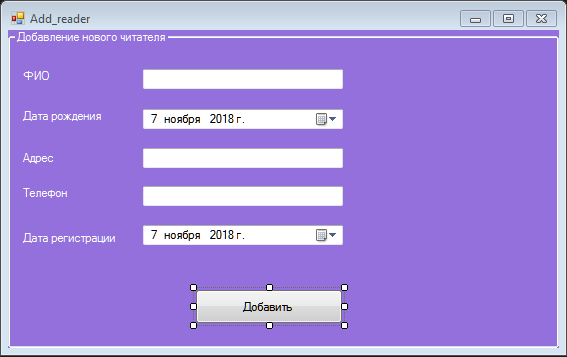


Рисунок 10 – Дизайн формы добавления нового читателя в базу

Код формы:

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

using System.Data.SqlClient;

namespace Library

{

public partial class Add\_reader : Form

{

public Add\_reader()

{

InitializeComponent();

}

const string select\_Reader = "Select id\_Reader AS [ID читателя], Name\_R as ФИО, Date\_B AS[Дата рождения], Adres as Адрес, Tel as Телефон, " +

"Date\_R AS [Дата регистрации] from Reader";

private void button1\_Click(object sender, EventArgs e)

{

SqlConnection conn = new SqlConnection();

conn.ConnectionString = FMain.SelfRef.connectionString;

conn.Open();

SqlCommand cmd = conn.CreateCommand();

cmd.CommandType = CommandType.StoredProcedure;

cmd.CommandText = "[ins\_Reader]";

cmd.Parameters.Add("@NAME\_R", SqlDbType.NVarChar, 50);

cmd.Parameters["@NAME\_R"].Value = textBox1.Text;

cmd.Parameters.Add("@Date\_b", SqlDbType.Date, 70);

cmd.Parameters["@Date\_b"].Value = dateTimePicker1.Value;

cmd.Parameters.Add("@Adres", SqlDbType.NVarChar, 70);

cmd.Parameters["@Adres"].Value = textBox2.Text;

cmd.Parameters.Add("@Tel", SqlDbType.NVarChar, 15);

cmd.Parameters["@Tel"].Value = textBox3.Text;

cmd.Parameters.Add("@Date\_r", SqlDbType.Date, 15);

cmd.Parameters["@Date\_r"].Value = dateTimePicker2.Value;

cmd.ExecuteScalar();

MessageBox.Show("Добавление записей в таблицу Reader ");

FMain.SelfRef.conn(FMain.SelfRef.connectionString, select\_Reader, FMain.SelfRef.dataGridView2);

}

}

}