

O'zbekiston Respublikasi axborot
texnologiyalari va kommunikatsiyalarini
rivojlantirish vazirligi

Toshkent Axborot Texnologiyalari Universiteti

C++ Dasturlash asoslari fanidan

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1. Kirish

Kutubxona Ma'lumotlar bazasi

Kutubxona ma'lumotlar bazasini avtomatlashtirishdan maqsad foydalanuvchilar uchun qulaylik yaratishdir. Kutubxona tez va samarali ishlasa kitobxon shuncha manfaatdor bo'ladi. Bu dastur kitobxonlar uchun yaratilgan bo'lib, ularning vaqtini tejashda xizmat qiladi.

II. Asosiy qism.

2.1. Kutubxona axborot tizimining axborot texnologiyalaridagi o'rni

Har bir soha rivojlanib borgan kabi kutubxona tizimi ham rivojlanish pallasida va bu amaliyotda keng qo'llanilmoqda.

2.2. Kurs ishining maqsad va vazifalari.

Maqsad: Kutubxona axborot tizimini yaratish.

Vazifa:

- Kutubxona ma'lumotlar bazasini yaratish
- tez va qulay ma'lumotlar ko'rsatish
- Kutubxona haqida elektron ma'lumot berish
- bu tizimdan istalgan ma'lumotlarni qidirish
- malumotlarni o'zgartirish, o'chirib tashlash va yangi ma'lumotlarni kiritish ishlarini olib borish mumkin

2.4. Foydalanuvchi uchun qo'llanma.

Dastur C++ Builder 6 dasturlash muxitida yaratilgan.

Dasturni ishga tushirganimizda dastlab quyidagicha oyna ochiladi. Bu tizimga kirish bilan undagi ma'lumotlarni ko'rish , o'zgartirishi va yangi ma'lumotlar kiritishimiz mumkin.



Kitoblar

Nomi	Muallifi	Chiqarilgan_yili	Nashriyoti	Joyi
Anvarjonning Orzusi	Anvar Obidjon	2001	Ziyo	4-4-7
Bahor kuni	Lutfiy	1998	O'qituvchi	13-12-11
C++	Helbert Schild	2013	Ma'rifat	1A-2B-
C++ Builder	Gerbert Schildt	2008	Vektor Press	45-1-14
Erkul Puario	Agata Kristi	1997	Yosh Gvardiya	1-2-3
Farg'ona Tong Otguncha	Olimjon Xayit	2011	Farg'ona	3-2-8
Jimjittlik	Said Axmad	2006	Vaqt	6-3-2
Kichkina Shaxzoda	Antuan De Sen Ekzyuperi	1998	Yosh Gvardiya	6-7-1
Lison ut-Tayr	Alisher Navoiy	1999	O'qituvchi	1-8-4
Mexrobdan Chayon	Abdulla Qodiriy	2009	Ma'rifat	1-7-4
Movarounnahr	Pirimqul Qodirov	2000	Ziyo	1-9-9
Navro'z	Umar Xayyom	2007	Davr	9-5-7
Oq Kema	Chingiz Aytmatov	2007	O'qituvchi	6-4-7
O'rmon xangomalari	Anvar Obidjon	2005	Yoshlik	6-7-2
O'tgan Kunlar	Abdulla Qodiriy	2009	Ma'rifat	7-2-6
O'zbekiston Mustaqillik Arafasida	Islom Karimov	2012	O'zbekiston	8-6-1
Pazandachilik san'ati	Abduraxmon Sattorov	2012	Vaqt	14-2-5
Qasos	Artur Konan Doyl	2008	Ma'rifat	8-6-2
Qutadg'u Bilig	Yusuf Xos Xojib	2001	Ziyo	9-1-3
Rojdestvo Arafasidagi Qotillik	Agata Kristi	2009	Ziyo	4-5-7
Ruboiylar	Umar Xayyom	2008	Davr	1-9-5
Sariq Devni Minib	Xudoyberdi To'xtaboyev	2001	O'qituvchi	3-2-5
Sariq Devning O'limi	Xudoyberdi To'xtaboyev	2010	Davr Press	4-5-8
Saylanma II	Erkin Voxidov	2000	Vaqt	7-1-8
Sevgi Bahori	Muxammad Yusuf	2009	Davr Press	7-8-1
Shaytanat	Toxir Malik	1999	Davr Press	12-11-10
Sherlok Xolmsning Sarguzashlari	Artur Konan Doyl	2012	Ziyo	7-8-9

KUTUBXONA

12:22:02

08.12.2013

Декабрь 2013

Пн	Вт	Ср	Чт	Пт	Сб	Вс
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Сегодня: 22.10.2015

Qidiruv

- Nomi
- Muallifi
- Nashriyoti

Bu asosiy oyna hisoblanib, unda kitoblar ro'yxati va shu kitoblarni ularningi xususiytlariga muvofiq qidirish tizimi mavjud.

Kitob berish – kitob berish jarayonidagi ro'yxatga olishni elektron tartibi

Kitob berish

F.I.O.	A'zolik raqami	Olgan kitobi	Olgan sanasi	Qaytarish muddati	F.I.O.
Abdullayev B	12345	Qasos	22.10.2015	1.11.2015	

FIO	Azolik_raqami	Olgan_kitobi	Olgan_sanasi	Muddati
Xamroyev JB	7632	Shaytanat	21.11.2013	15
Zufarov QS	9876	Sariq devni minib	12.12.2013	20
Yoqubov FG	7878	Saylanma II	10.12.2013	20
Bahronov Behruz	1258	Qasos	17.06.2014	10

Kitob olish – kutubxonaga yangi kelgan kitoblarni tartiblab kutuxona ro'yxatiga qo'shadi.



Kitob olish

Kitob nomi

Muallifi

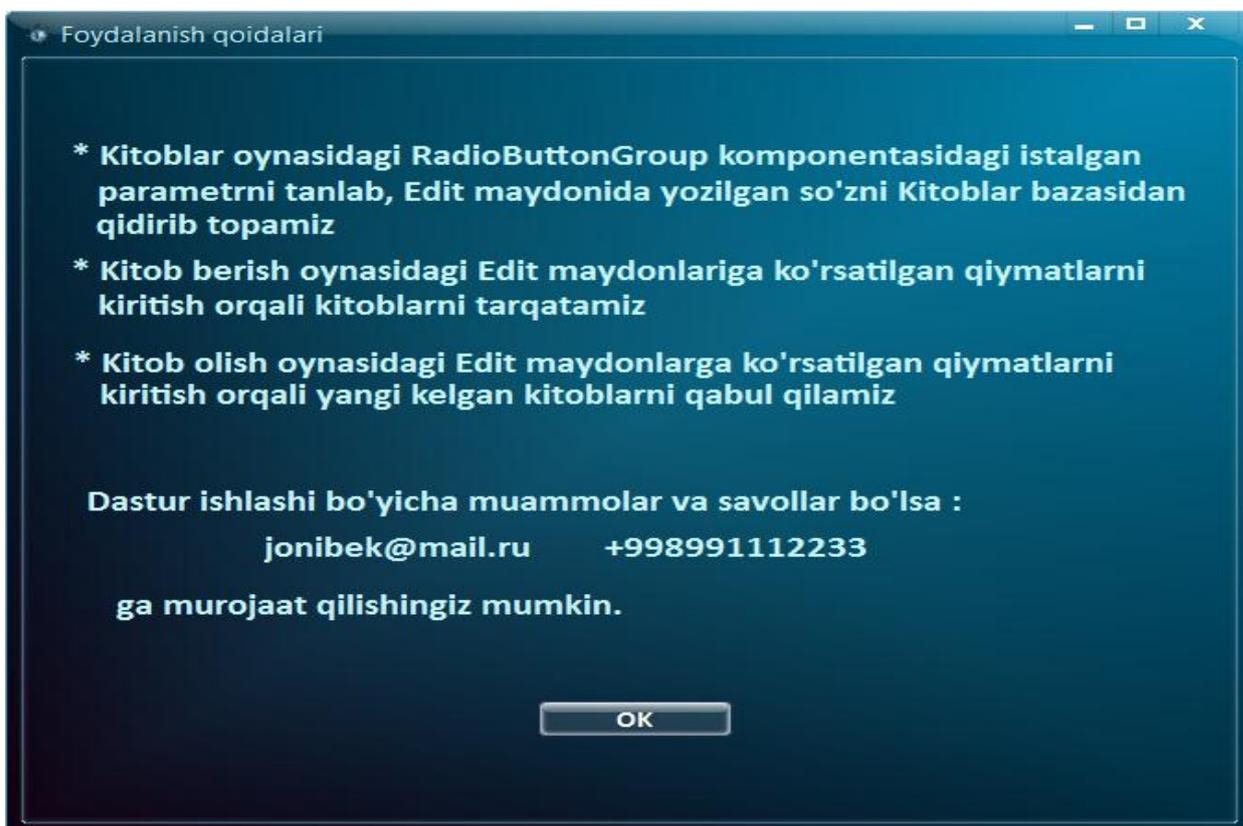
Chiqarilgan yili

Nashriyoti

Joyi

Qabul qilish Qaytish

Foydalanish qoidalari



Foydalanish qoidalari

- * Kitoblar oynasidagi RadioButtonGroup komponentasidagi istalgan parametрни tanlab, Edit maydonida yozilgan so'zni Kitoblar bazasidan qidirib topamiz
- * Kitob berish oynasidagi Edit maydonlariga ko'rsatilgan qiymatlarni kiritish orqali kitoblarni tarqatamiz
- * Kitob olish oynasidagi Edit maydonlarga ko'rsatilgan qiymatlarni kiritish orqali yangi kelgan kitoblarni qabul qilamiz

Dastur ishlashi bo'yicha muammolar va savollar bo'lsa :

jonibek@mail.ru +998991112233

ga murojaat qilishingiz mumkin.

OK

2.5. Dasturlovchi uchun qo'llanma.

Dastur C++ Builder 6 muhitida yaratilgan kurs ishining dasturi 7 ta Unitdan tashkil topgan. Har bir Unit o'z vazifasiga ega.

```
Form1 → Unit1
//-----
#include <vcl.h>
#pragma hdrstop
#include "Unit1.h"
#include "Unit2.h"
#include "Unit3.h"
#include "Unit4.h"
#include "Unit5.h"
#include "Unit6.h"
#include "Unit7.h"
//-----
#pragma package(smart_init)
#pragma link "sSkinManager"
#pragma link "sBitBtn"
#pragma link "sLabel"
#pragma resource "*.dfm"
TForm1 *Form1;
//-----
__fastcall TForm1::TForm1(TComponent* Owner)
    : TForm(Owner)
{
}
//-----
void __fastcall TForm1::FormCreate(TObject *Sender)
{
    sSkinManager1->SkinDirectory = ExtractFilePath(Application->ExeName);
    sSkinManager1->SkinName = "Deep";
    sSkinManager1->Active = true;
}
//-----
void __fastcall TForm1::sBitBtn4Click(TObject *Sender)
{
    Form1->Close();
}
```

```
//-----  
void __fastcall TForm1::sBitBtn1Click(TObject *Sender)  
{  
    Form1->Hide();  
    Form3->Show();  
}  
//-----
```

```
void __fastcall TForm1::sBitBtn3Click(TObject *Sender)  
{  
    Form1->Hide();  
    Form7->Show();  
}  
//-----
```

Form2 → Unit2

```
//-----  
#include <vcl.h>  
#pragma hdrstop  
#include "Unit2.h"  
#include "Unit1.h"  
#include "Unit3.h"  
#include "Unit4.h"  
#include "Unit5.h"  
//-----  
#pragma package(smart_init)  
#pragma link "sPanel"  
#pragma link "sBitBtn"  
#pragma link "sEdit"  
#pragma link "sLabel"  
#pragma resource "*.dfm"  
TForm2 *Form2;  
//-----  
__fastcall TForm2::TForm2(TComponent* Owner)  
    : TForm(Owner)  
{  
}  
//-----
```

```

void __fastcall TForm2::FormClose(TObject *Sender, TCloseAction &Action)
{
    Form1->Show();
}
//-----
void __fastcall TForm2::sBitBtn2Click(TObject *Sender)
{
    Form2->Hide();
    Form1->Show();
}
//-----
void __fastcall TForm2::sBitBtn3Click(TObject *Sender)
{
    Form1->Close();
}
//-----
void __fastcall TForm2::sBitBtn1Click(TObject *Sender)
{
    if (sEdit1->Text == "7777")
    {
        Form2->Hide();
        Form3->Show();
    }
    else
        ShowMessage("Parol xato kiritildi !!!");
}
//-----
void __fastcall TForm2::sEdit1KeyPress(TObject *Sender, char &Key)
{
    if (Key == 13){
        if (sEdit1->Text == "7777")
        {
            Form2->Hide();
            Form3->Show();
        }
        else
            ShowMessage("Parol xato kiritildi !!!");
    }
}
//-----

```

Form3 → Unit3

```
//-----  
#include <vcl.h>  
#pragma hdrstop  
#include "Unit3.h"  
#include "Unit1.h"  
#include "Unit2.h"  
#include "Unit4.h"  
#include "Unit5.h"  
#include "Unit6.h"  
#include "Unit7.h"  
//-----  
#pragma package(smart_init)  
#pragma link "sPanel"  
#pragma link "sBitBtn"  
#pragma link "sEdit"  
#pragma link "sLabel"  
#pragma resource "*.dfm"  
TForm3 *Form3;  
//-----  
__fastcall TForm3::TForm3(TComponent* Owner)  
    : TForm(Owner)  
{  
}  
//-----  
void __fastcall TForm3::FormClose(TObject *Sender, TCloseAction &Action)  
{  
    Form1->Show();  
}  
//-----  
void __fastcall TForm3::Timer1Timer(TObject *Sender)  
{  
    Label1->Caption = TimeToStr(Now());  
}  
//-----  
void __fastcall TForm3::sBitBtn4Click(TObject *Sender)  
{  
    Form3->Hide();  
    Form1->Show();  
}
```

```

//-----
void __fastcall TForm3::sBitBtn1Click(TObject *Sender)
{
    ADOQuery1->Close();
    ADOQuery1->SQL->Clear();
    ADOQuery1->SQL->Add("select Nomi, Muallifi, Chiqarilgan_yili,
Nashriyoti, Joyi from Kitoblar");

    if (RadioGroup1->ItemIndex==0)
        ADOQuery1->SQL->Add("where Nomi Like '\"'+sEdit1->Text+'%\"");

    if (RadioGroup1->ItemIndex==1)
        ADOQuery1->SQL->Add("where Muallifi Like '\"'+sEdit1->Text+'%\"");

    if (RadioGroup1->ItemIndex==2)
        ADOQuery1->SQL->Add("where Nashriyoti Like '\"'+sEdit1-
>Text+'%\"");
    ADOQuery1->Open();
}
//-----
void __fastcall TForm3::sEdit1KeyPress(TObject *Sender, char &Key)
{
    ADOQuery1->Close();
    ADOQuery1->SQL->Clear();
    ADOQuery1->SQL->Add("select Nomi, Muallifi, Chiqarilgan_yili,
Nashriyoti, Joyi from Kitoblar");

    if (RadioGroup1->ItemIndex==0)
        ADOQuery1->SQL->Add("where Nomi Like '\"'+sEdit1->Text+'%\"");

    if (RadioGroup1->ItemIndex==1)
        ADOQuery1->SQL->Add("where Muallifi Like '\"'+sEdit1->Text+'%\"");

    if (RadioGroup1->ItemIndex==2)
        ADOQuery1->SQL->Add("where Nashriyoti Like '\"'+sEdit1-
>Text+'%\"");

    ADOQuery1->Open();
}

```

```
//-----
void __fastcall TForm3::sBitBtn2Click(TObject *Sender)
{
    Form3->Hide();
    Form4->Show();
}
//-----
void __fastcall TForm3::sBitBtn3Click(TObject *Sender)
{
    Form3->Hide();
    Form5->Show();
}
//-----
void __fastcall TForm3::sBitBtn5Click(TObject *Sender)
{
    Form3->Hide();
    Form6->Show();
}
//-----
```

Form4 → Unit4

```
//-----
#include <vcl.h>
#pragma hdrstop
#include "Unit4.h"
#include "Unit1.h"
#include "Unit2.h"
#include "Unit3.h"
#include "Unit5.h"
//-----
#pragma package(smart_init)
#pragma link "sEdit"
#pragma link "sLabel"
#pragma link "sButton"
#pragma resource "*.dfm"
TForm4 *Form4;
//-----
__fastcall TForm4::TForm4(TComponent* Owner)
: TForm(Owner)
{
```

```

}
//-----
void __fastcall TForm4::FormClose(TObject *Sender, TCloseAction &Action)
{
    Form3->Show();
}
//-----
void __fastcall TForm4::sButton1Click(TObject *Sender)
{
    ADOQuery1->Close();
    ADOQuery1->SQL->Clear();
    ADOQuery1->SQL->Add("Insert into Oquvchilar(FIO, Azolik_raqami,
Olgan_kitobi, Olgan_sanasi, Muddati)");
    ADOQuery1->SQL->Add("Values (:FIO, :Azolik_raqami, :Olgan_kitobi,
:Olgan_sanasi, :Muddati)");
    ADOQuery1->Parameters->ParamByName("FIO")->Value = sEdit1->Text;
    ADOQuery1->Parameters->ParamByName("Azolik_raqami")->Value =
sEdit2->Text;
    ADOQuery1->Parameters->ParamByName("Olgan_kitobi") ->Value = sEdit3-
>Text;
    ADOQuery1->Parameters->ParamByName("Olgan_sanasi") ->Value = sEdit4-
>Text;
    ADOQuery1->Parameters->ParamByName("Muddati")->Value = sEdit5-
>Text;
    ADOQuery1->ExecSQL();
    ADOQuery1->Close();
    ADOQuery1->SQL->Clear();
    ADOQuery1->SQL->Add("select FIO, Azolik_raqami, Olgan_kitobi,
Olgan_sanasi, Muddati from Oquvchilar");
    ADOQuery1->Open();
}
//-----
void __fastcall TForm4::sButton3Click(TObject *Sender)
{
    Form4->Hide();
    Form3->Show();
}
//-----

void __fastcall TForm4::sButton2Click(TObject *Sender)

```

```

{
    sEdit1->Clear();
    sEdit2->Clear();
    sEdit3->Clear();
    sEdit4->Clear();
    sEdit5->Clear();
    sEdit6->Clear();
}
//-----
void __fastcall TForm4::sButton4Click(TObject *Sender)
{
    ADOQuery1->Close();
    ADOQuery1->SQL->Clear();
    ADOQuery1->SQL->Add("select FIO, Azolik_raqami, Olgan_kitobi,
Olgan_sanasi, Muddati from Oquvchilar");
    ADOQuery1->SQL->Add("where FIO Like '\" + sEdit6->Text + \"%\");
    ADOQuery1->Open();
}
//-----
void __fastcall TForm4::sEdit6KeyPress(TObject *Sender, char &Key)
{
    ADOQuery1->Close();
    ADOQuery1->SQL->Clear();
    ADOQuery1->SQL->Add("select FIO, Azolik_raqami, Olgan_kitobi,
Olgan_sanasi, Muddati from Oquvchilar");
    ADOQuery1->SQL->Add("where FIO Like '\" + sEdit6->Text + \"%\");
    ADOQuery1->Open();
}
//-----
void __fastcall TForm4::Timer1Timer(TObject *Sender)
{
    sEdit4->Text = DateToStr(Now());
}
//-----

```

Form5 → Unit5

```
//-----  
#include <vcl.h>  
#pragma hdrstop  
#include "Unit5.h"  
#include "Unit1.h"  
#include "Unit2.h"  
#include "Unit3.h"  
#include "Unit4.h"  
//-----  
#pragma package(smart_init)  
#pragma link "sButton"  
#pragma link "sEdit"  
#pragma link "sLabel"  
#pragma link "sPanel"  
#pragma resource "*.dfm"  
TForm5 *Form5;  
//-----  
__fastcall TForm5::TForm5(TComponent* Owner)  
    : TForm(Owner)  
{  
}  
//-----  
void __fastcall TForm5::sButton1Click(TObject *Sender)  
{  
    ADOQuery1->Close();  
    ADOQuery1->SQL->Clear();  
    ADOQuery1->SQL->Add("Insert into Kitoblar(Nomi, Muallifi,  
Chiqarilgan_yili, Nashriyoti, Joyi)");  
    ADOQuery1->SQL->Add("Values (:Nomi, :Muallifi, :Chiqarilgan_yili,  
:Nashriyoti, :Joyi)");  
    ADOQuery1->Parameters->ParamByName("Nomi")->Value = sEdit1->Text;  
    ADOQuery1->Parameters->ParamByName("Muallifi")->Value = sEdit2->  
Text;  
    ADOQuery1->Parameters->ParamByName("Chiqarilgan_yili") ->Value =  
sEdit3->Text;  
    ADOQuery1->Parameters->ParamByName("Nashriyoti") ->Value = sEdit4->  
Text;  
    ADOQuery1->Parameters->ParamByName("Joyi")->Value = sEdit5->Text;  
    ADOQuery1->ExecSQL();  
}
```

```

    Form3->ADOQuery1->Close();
    Form3->ADOQuery1->SQL->Clear();
    Form3->ADOQuery1->SQL->Add("select Nomi, Muallifi, Chiqarilgan_yili,
Nashriyoti, Joyi from Kitoblar order by Nomi");
    Form3->ADOQuery1->Open();
    sEdit1->Clear();
    sEdit2->Clear();
    sEdit3->Clear();
    sEdit4->Clear();
    sEdit5->Clear();
    ShowMessage("Qabul qilindi !");
}

```

```

//-----

```

```

void __fastcall TForm5::sButton2Click(TObject *Sender)
{
    Form5->Hide();
    Form3->Show();
}

```

```

//-----

```

Form6 → Unit6

```

//-----

```

```

#include <vcl.h>
#pragma hdrstop
#include "Unit6.h"
#include "Unit1.h"
#include "Unit3.h"

```

```

//-----

```

```

#pragma package(smart_init)
#pragma link "sPanel"
#pragma link "sButton"
#pragma resource "*.dfm"
TForm6 *Form6;

```

```

//-----

```

```

__fastcall TForm6::TForm6(TComponent* Owner)
: TForm(Owner)

```

```

{
}

```

```

//-----

```

```
void __fastcall TForm6::sButton1Click(TObject *Sender)
{
    Form6->Hide();
    Form3->Show();
}
//-----
```

Form7 → Unit7

```
//-----
#include <vcl.h>
#pragma hdrstop
#include "Unit7.h"
#include "Unit1.h"
#include "Unit3.h"
//-----
#pragma package(smart_init)
#pragma link "sPanel"
#pragma link "sButton"
#pragma resource "*.dfm"
TForm7 *Form7;
//-----
__fastcall TForm7::TForm7(TComponent* Owner)
    : TForm(Owner)
{
}
//-----
void __fastcall TForm7::sButton1Click(TObject *Sender)
{
    Form7->Hide();
    Form3->Show();
}
//-----
```

III.Xulosa

Kutubxona haqidagi ma'lumotlar kiritilgan bo'lib, elektron yangi ma'lumotlar kiritish, saqlash , va ma'lumotlarni qayta ishlash ishlarini olib borish mumkin . Bu kompyuter tizimida ishlash hayotda juda aniq va oson ma'lumotlarni olishga yordam beradi. Bu hozirda juda keng tarqalgan bo'lib, ko'p sohalardalarda shunday tizimdan foydalanilmoqda va bu istemolchiga ham xaridorga ham maquldir. Bu foydalanuvchiga ham qiyinchilik tug'dirmaydi. Chunki bunday tizimlar har sohada muhim o'rin olmoqda.

Foydalanilgan adabiyotlar.

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8. Google qidiruv tizimi
9. Yandex qidiruv tizimi