**ABSTRACT**

Library Management System is a simple console application which is being developed using C++ (*visual studio*). Information Technology has grown at very high rate in present and in future almost all will be based on IT. This project named library management is also done to support IT in positive way and make man work less by giving an information to computer and make work easy, fast, comfortable and effective.

An effective Library Management System should be the one which works all the program accurately. Main aim of LMS will be to make the works of library in a computerized way and save time. This system will have security saving, which is authorized to students, staff. All the information of books and author name with book number is already saved such way that we can prevent the loss of books information of student and staff. It is also saved in a way that which book is taken by whom and date of return is also fixed.

We will be using C++ as the security issue will be solved which is there in present LMS.

**Chapter-1**

**INTRODUCTION**

A Library Management System is a type of software which is developed to handle basic functions of a library. It helps to provide the information of the books present in the library. It keeps the tracks of the books issued or returned or added to the library.

**1.1 SCOPE OF THE PROJECT**

* To provide a user-friendly environment
* Make functionality of a library faster.
* To minimize the loss done to books.
* To make the task of the librarian easy and efficient.

**1.2 REQUIREMENTS**

Information about the books and the users. It should store information for the students, teachers and mainly the books.

**1.3 IMPORTANCE OF LIBRARY MANAGEMENT SYSTEM**

An efficient computerized library management system will enhance the effectiveness of the library. A good library management system should enable librarian to manage library resources in a more effective way to save time and effort. It removes manual process involved and simplifies the way of issuing the book.

**1.4 TASK OF THE LIBRARIAN**

1. Add Book
2. View Student's issue Detail
3. View Teacher's issue Detail
4. Issue Student’s Book
5. Issue Teacher’s Book
6. Return Student's Book
7. Return Teacher's Book

**1.5 PROPOSED SYSTEM**

1. The new LMS will overcome all the problems of the existing Library Management System.
2. It will help to retrieve the information easily.
3. Every data which will be stored in a structured manner.
4. All the information about the books, students and teachers will be stored according to the ids.

**Chapter-2**

**REQUIREMENTS**

**2.1 MODULES**

1. Add Book
2. Issue Student’s Book
3. Issue Teacher’s Book
4. Return Student’s Book
5. Return Teacher’s Book
6. Student's Detail
7. Teacher’s Detail

**2.2 HARDWARE CONFIGURATION**

1. Processor- Intel Core i3 (2.20GHz)
2. Memory (RAM) - 2GB
3. System Type- 32–bit OS

**2.3 SOFTWARE CONFIGURATION**

1. Interface-C++ (Visual Studio 2010 Ultimate)
2. Database- MySQL
3. Plat Form used is Windows 7 Professional

**Chapter-3**

**SOFTWARE DESIGN**

**3.1 FLOWCHART**

LIBRARIAN LOGIN

MENU FOR LIBRARY MANAGEMENT SYSTEM

ISSUE BOOK?

OR

ORoOR RETURN

Return book: enter student’s id

Issue book: enter student’s and book details

**3.2 ALGORITHM**

1. Start with Login screen
2. Get input of the id and password from the Librarian.
3. Check password from database,

If password correct

* Yes- Go to step 4
* No- print wrong password message and go to step 2.

4. Display main menu as below:

* Add books
* Issue Student's books
* Student’s detail
* Teacher’s Detail
* Return Teacher's Books
* Return Student’s Books
* Issue Teacher's Book
* Closed

5. Select choice:

* If clicked on Add book then,

Enter book id, book name, author, publisher details

* If clicked on Issue Student's books then,

Enter student details and book details

* If clicked on Student’s Detail

View student’s name, id, branch and book issued

* If clicked on Teacher’s Detail

View teacher’s name, id, branch and book issued

* If clicked on Issue teacher’s books then,

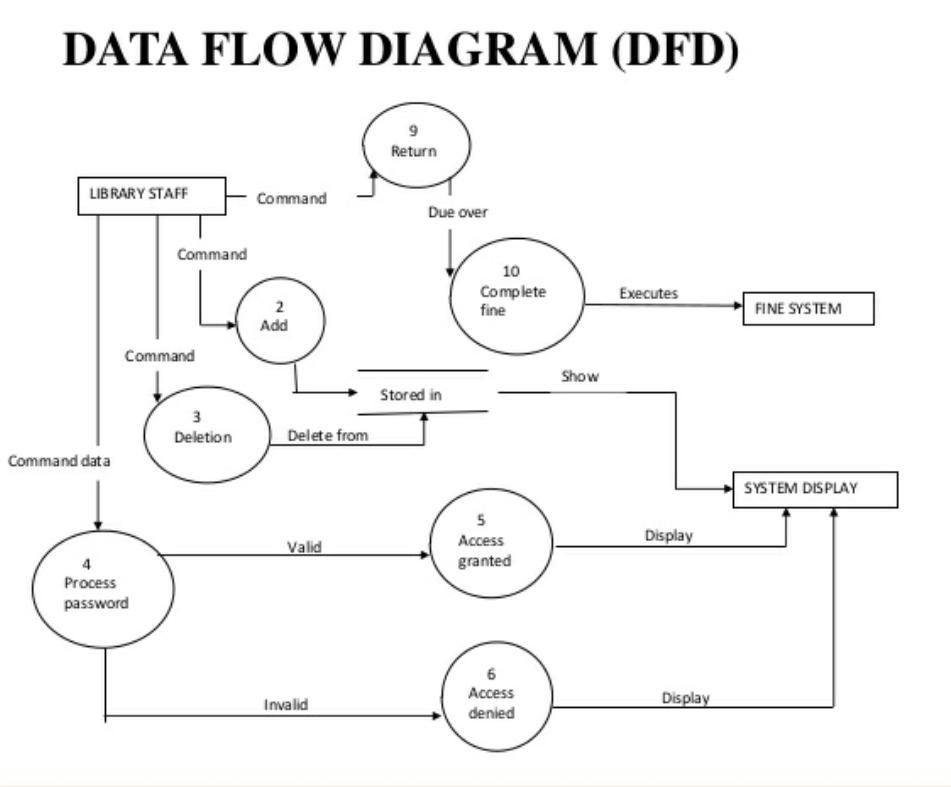
Enter teacher’s details and book details

* If clicked on closed

Go to step 6

6. Form will be closed

**3.3 DATAFLOW DIAGRAM**



**3.4 DATABASE DIAGRAM**

**User login database**

|  |  |
| --- | --- |
| Uid | Psswrd |
| 1001 | Mehul |
| 1002 | Vaibhavi |
| 1003 | Supriya |

**Student details table**

|  |  |  |
| --- | --- | --- |
| Stuid | Stuname | Stubranch |
| 6001 | Ramya | CSE |
| 6002 | |  |  | | --- | --- | | Masuma |  | | CSE |
| 6003 | |  |  | | --- | --- | | Akhila |  | | EEE |
| 6004 | Alekhya | ECE |
| 6005 | Harshini | EEE |
| 6006 | Aishwarya | ECE |
| 6007 | Shivani | CSE |
| 6008 | Pallavi | CSE |
| 6009 | Chandrika | EEE |

**Teachers details table**

|  |  |  |
| --- | --- | --- |
| Tid | Tname | Tbranch |
| 101 | Ms. Mounika | CSE |
| 102 | Mrs. Radhika | CSE |
| 103 | Mr. Kishore | CSE |
| 104 | Mrs. Prasanna | ECE |
| 105 | Mrs. Shweta | EEE |
| 106 | Ms. Shugufta | CSE |

**Books table**

|  |  |  |  |
| --- | --- | --- | --- |
| Bid | Bname | Bauthor | Bpublisher |
| 201 | Let Us C | Yashwant | Bpb |
| 202 | Java | Herbet | Oracle |
| 203 | Programming Language | Niklaus | Abc |
| 204 | Microprocessor | Douglas | Bcb |
| 205 | Data Structures | Thomas | Oracle |
| 206 | Systems & Signals | Alan | Abc |

**Issue students book table**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stuid | Stuname | Stubranch | Bookid | Bname | Bauthor | Bpublisher | Idate | Rdate |
| 6004 | Alekhya | ECE | 204 | Microprocessor | Douglas | Bcb | 1/4/18 | 16 |
| 6007 | Shivani | CSE | 201 | Let Us C | Yashwant | Bpb | 1/4/18 | 16 |

**Issue teacher book**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| tid | Tname | Tbranch | Bookid | Bname | Bauthor | Bpublisher | Idate | Rdate |
| 104 | Prasanna | ECE | 206 | Systems&Signals | Alan | Abc | 1/4/18 | 16 |
| 101 | Mounika | CSE | 201 | Let Us C | Yashwant | Bpb | 1/4/18 | 16 |

**Chapter-4**

**APPLICATIONS, MERITS & DEMERITS**

**APPLICATIONS**

* Library Management System can be used in schools.
* Can also be used in colleges.
* Can also be used in city, town or club libraries.

**MERITS**

* Work efficient.
* Removes the manual process.
* User friendly.

**DEMERITS**

* Does not have barcode reader.
* It’s not an online library management system.

**Chapter-5**

**CODING**

**Login screen**

#pragma once

#include "lms.h"

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

using namespace MySql::Data::MySqlClient;

public ref class Form1 : public System::Windows::Forms::Form

{

public:

Form1(void)

{

InitializeComponent();

//TODO: Add the constructor code here

}

protected:

~Form1()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::Label^ label1;

private: System::Windows::Forms::Panel^ panel1;

private: System::Windows::Forms::PictureBox^ pictureBox1;

private: System::Windows::Forms::Button^ button1;

private: System::Windows::Forms::TextBox^ textBox2;

private: System::Windows::Forms::TextBox^ textBox1;

private: System::Windows::Forms::Label^ label3;

private: System::Windows::Forms::Label^ label2;

private: System::Windows::Forms::ProgressBar^ progressBar1;

private: System::Windows::Forms::Timer^ timer1;

private: System::ComponentModel::IContainer^ components;

protected:

private:

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

this->components = (gcnew System::ComponentModel::Container());

System::ComponentModel::ComponentResourceManager^ resources = (gcnew System::ComponentModel::ComponentResourceManager(Form1::typeid));

this->label1 = (gcnew System::Windows::Forms::Label());

this->panel1 = (gcnew System::Windows::Forms::Panel());

this->pictureBox1 = (gcnew System::Windows::Forms::PictureBox());

this->button1 = (gcnew System::Windows::Forms::Button());

this->textBox2 = (gcnew System::Windows::Forms::TextBox());

this->textBox1 = (gcnew System::Windows::Forms::TextBox());

this->label3 = (gcnew System::Windows::Forms::Label());

this->label2 = (gcnew System::Windows::Forms::Label());

this->progressBar1 = (gcnew System::Windows::Forms::ProgressBar());

this->timer1 = (gcnew System::Windows::Forms::Timer(this->components));

this->panel1->SuspendLayout();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox1))->BeginInit();

this->SuspendLayout();

// label1

this->label1->AutoSize = true;

this->label1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 24, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label1->Location = System::Drawing::Point(164, 25);

this->label1->Name = L"label1";

this->label1->Size = System::Drawing::Size(449, 37);

this->label1->TabIndex = 0;

this->label1->Text = L"Library Management System";

// panel1

this->panel1->Controls->Add(this->pictureBox1);

this->panel1->Controls->Add(this->button1);

this->panel1->Controls->Add(this->textBox2);

this->panel1->Controls->Add(this->textBox1);

this->panel1->Controls->Add(this->label3);

this->panel1->Controls->Add(this->label2);

this->panel1->Location = System::Drawing::Point(60, 100);

this->panel1->Name = L"panel1";

this->panel1->Size = System::Drawing::Size(612, 216);

this->panel1->TabIndex = 1;

// pictureBox

this->pictureBox1->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox1.Image")));

this->pictureBox1->Location = System::Drawing::Point(25, 1);

this->pictureBox1->Name = L"pictureBox1";

this->pictureBox1->Size = System::Drawing::Size(254, 212);

this->pictureBox1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox1->TabIndex = 14;

this->pictureBox1->TabStop = false;

// button1

this->button1->BackColor = System::Drawing::SystemColors::GradientInactiveCaption;

this->button1->BackgroundImageLayout = System::Windows::Forms::ImageLayout::Center;

this->button1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->button1->Location = System::Drawing::Point(402, 116);

this->button1->Name = L"button1";

this->button1->Size = System::Drawing::Size(90, 29);

this->button1->TabIndex = 13;

this->button1->Text = L"SignIn";

this->button1->UseVisualStyleBackColor = false;

this->button1->Click += gcnew System::EventHandler(this, &Form1::button1\_Click);

// textBox2

this->textBox2->Location = System::Drawing::Point(459, 55);

this->textBox2->Name = L"textBox2";

this->textBox2->PasswordChar = '\*';

this->textBox2->Size = System::Drawing::Size(118, 21);

this->textBox2->TabIndex = 12;

// textBox1

this->textBox1->Location = System::Drawing::Point(459, 7);

this->textBox1->Name = L"textBox1";

this->textBox1->Size = System::Drawing::Size(118, 21);

this->textBox1->TabIndex = 11;

// label3

this->label3->AutoSize = true;

this->label3->Font = (gcnew System::Drawing::Font(L"Cambria", 15.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic))));

this->label3->Location = System::Drawing::Point(314, 50);

this->label3->Name = L"label3";

this->label3->Size = System::Drawing::Size(110, 25);

this->label3->TabIndex = 10;

this->label3->Text = L"Password:";

// label2

this->label2->AutoSize = true;

this->label2->Font = (gcnew System::Drawing::Font(L"Cambria", 15.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label2->Location = System::Drawing::Point(314, 2);

this->label2->Name = L"label2";

this->label2->Size = System::Drawing::Size(133, 25);

this->label2->TabIndex = 9;

this->label2->Text = L"Librarian Id:";

// progressBar1

this->progressBar1->Location = System::Drawing::Point(231, 326);

this->progressBar1->Name = L"progressBar1";

this->progressBar1->Size = System::Drawing::Size(253, 39);

this->progressBar1->TabIndex = 17;

// timer1

this->timer1->Tick += gcnew System::EventHandler(this, &Form1::timer1\_Tick);

// Form1

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->BackColor = System::Drawing::SystemColors::ActiveCaption;

this->ClientSize = System::Drawing::Size(757, 413);

this->Controls->Add(this->progressBar1);

this->Controls->Add(this->panel1);

this->Controls->Add(this->label1);

this->Name = L"Form1";

this->Text = L"Library Management System";

this->Load += gcnew System::EventHandler(this, &Form1::Form1\_Load);

this->panel1->ResumeLayout(false);

this->panel1->PerformLayout();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox1))->EndInit();

this->ResumeLayout(false);

this->PerformLayout();

}

#pragma endregion

private: System::Void textBox1\_TextChanged(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void button1\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.userlogin where uid='"+this->textBox1->Text+"' and psswrd='"+this->textBox2->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

this->panel1->Hide();

this->timer1->Start();

this->progressBar1->Show();

this->progressBar1->Minimum=1;

}

else

{

MessageBox::Show("Incorrect Username and password! Try Again!");

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void progressBar1\_Click(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void timer1\_Tick(System::Object^ sender, System::EventArgs^ e) {

this->progressBar1->Increment(3);

if(this->progressBar1->Value==100)

{

this->timer1->Stop();

lms^ form = gcnew lms;

this->Hide();

form->Show();

}

}

private: System::Void Form1\_Load(System::Object^ sender, System::EventArgs^ e) {

this->progressBar1->Hide();

}

};

}

**Menu screen**

#pragma once

#include "StdAfx.h"

#include "Form2.h"

#include "IssueBook.h"

#include "Add.h"

#include "tchrb.h"

#include "returns.h"

#include "returnt.h"

#include "studetails.h"

#include "tdetails.h"

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

public ref class lms : public System::Windows::Forms::Form

{

public:

lms(void)

{

InitializeComponent();

//TODO: Add the constructor code here

}

protected:

/// <summary>

/// Clean up any resources being used.

/// </summary>

~lms()

{

if (components)

{

delete components;

}

}

protected:

private: System::Windows::Forms::Button^ button5;

private: System::Windows::Forms::Panel^ panel1;

private: System::Windows::Forms::Button^ button3;

private: System::Windows::Forms::Button^ button2;

private: System::Windows::Forms::Button^ button1;

private: System::Windows::Forms::PictureBox^ pictureBox1;

private: System::Windows::Forms::PictureBox^ pictureBox2;

private: System::Windows::Forms::PictureBox^ pictureBox5;

private: System::Windows::Forms::PictureBox^ pictureBox3;

private: System::Windows::Forms::Button^ button11;

private: System::Windows::Forms::PictureBox^ pictureBox8;

private: System::Windows::Forms::PictureBox^ pictureBox9;

private: System::Windows::Forms::Panel^ panel2;

private: System::Windows::Forms::Button^ button12;

private: System::Windows::Forms::Button^ button4;

private: System::Windows::Forms::PictureBox^ pictureBox4;

private: System::Windows::Forms::PictureBox^ pictureBox6;

private: System::Windows::Forms::Button^ button6;

private:

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

System::ComponentModel::ComponentResourceManager^ resources = (gcnew System::ComponentModel::ComponentResourceManager(lms::typeid));

this->button5 = (gcnew System::Windows::Forms::Button());

this->panel1 = (gcnew System::Windows::Forms::Panel());

this->button3 = (gcnew System::Windows::Forms::Button());

this->button2 = (gcnew System::Windows::Forms::Button());

this->button1 = (gcnew System::Windows::Forms::Button());

this->pictureBox1 = (gcnew System::Windows::Forms::PictureBox());

this->pictureBox2 = (gcnew System::Windows::Forms::PictureBox());

this->pictureBox5 = (gcnew System::Windows::Forms::PictureBox());

this->pictureBox3 = (gcnew System::Windows::Forms::PictureBox());

this->button11 = (gcnew System::Windows::Forms::Button());

this->pictureBox8 = (gcnew System::Windows::Forms::PictureBox());

this->pictureBox9 = (gcnew System::Windows::Forms::PictureBox());

this->panel2 = (gcnew System::Windows::Forms::Panel());

this->pictureBox6 = (gcnew System::Windows::Forms::PictureBox());

this->button6 = (gcnew System::Windows::Forms::Button());

this->button4 = (gcnew System::Windows::Forms::Button());

this->pictureBox4 = (gcnew System::Windows::Forms::PictureBox());

this->button12 = (gcnew System::Windows::Forms::Button());

this->panel1->SuspendLayout();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox1))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox2))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox5))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox3))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox8))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox9))->BeginInit();

this->panel2->SuspendLayout();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox6))->BeginInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox4))->BeginInit();

this->SuspendLayout();

// button5

this->button5->Cursor = System::Windows::Forms::Cursors::Hand;

this->button5->Location = System::Drawing::Point(37, 135);

this->button5->Name = L"button5";

this->button5->Size = System::Drawing::Size(75, 23);

this->button5->TabIndex = 16;

this->button5->Text = L"Add Book";

this->button5->UseVisualStyleBackColor = true;

this->button5->Click += gcnew System::EventHandler(this, &lms::button5\_Click);

// panel1

this->panel1->Controls->Add(this->button5);

this->panel1->Controls->Add(this->button3);

this->panel1->Controls->Add(this->button2);

this->panel1->Controls->Add(this->button1);

this->panel1->Controls->Add(this->pictureBox1);

this->panel1->Controls->Add(this->pictureBox2);

this->panel1->Controls->Add(this->pictureBox5);

this->panel1->Controls->Add(this->pictureBox3);

this->panel1->Location = System::Drawing::Point(1, -2);

this->panel1->Name = L"panel1";

this->panel1->Size = System::Drawing::Size(148, 506);

this->panel1->TabIndex = 15;

// button3

this->button3->Cursor = System::Windows::Forms::Cursors::Hand;

this->button3->Location = System::Drawing::Point(20, 301);

this->button3->Name = L"button3";

this->button3->Size = System::Drawing::Size(113, 23);

this->button3->TabIndex = 14;

this->button3->Text = L"Student\'s Detail";

this->button3->UseVisualStyleBackColor = true;

this->button3->Click += gcnew System::EventHandler(this, &lms::button3\_Click);

// button2

this->button2->Cursor = System::Windows::Forms::Cursors::Hand;

this->button2->Location = System::Drawing::Point(3, 220);

this->button2->Name = L"button2";

this->button2->Size = System::Drawing::Size(142, 23);

this->button2->TabIndex = 13;

this->button2->Text = L"Return Student\'s Book";

this->button2->UseVisualStyleBackColor = true;

this->button2->Click += gcnew System::EventHandler(this, &lms::button2\_Click);

// button1

this->button1->Cursor = System::Windows::Forms::Cursors::Hand;

this->button1->Location = System::Drawing::Point(37, 60);

this->button1->Name = L"button1";

this->button1->Size = System::Drawing::Size(75, 23);

this->button1->TabIndex = 12;

this->button1->Text = L"Issue Book";

this->button1->UseVisualStyleBackColor = true;

this->button1->Click += gcnew System::EventHandler(this, &lms::button1\_Click);

// pictureBox1

this->pictureBox1->Cursor = System::Windows::Forms::Cursors::Hand;

this->pictureBox1->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox1.Image")));

this->pictureBox1->Location = System::Drawing::Point(0, 89);

this->pictureBox1->Name = L"pictureBox1";

this->pictureBox1->Size = System::Drawing::Size(148, 60);

this->pictureBox1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox1->TabIndex = 1;

this->pictureBox1->TabStop = false;

// pictureBox2

this->pictureBox2->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox2.Image")));

this->pictureBox2->Location = System::Drawing::Point(0, 0);

this->pictureBox2->Name = L"pictureBox2";

this->pictureBox2->Size = System::Drawing::Size(148, 69);

this->pictureBox2->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox2->TabIndex = 2;

this->pictureBox2->TabStop = false;

// pictureBox5

this->pictureBox5->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox5.Image")));

this->pictureBox5->Location = System::Drawing::Point(0, 170);

this->pictureBox5->Name = L"pictureBox5";

this->pictureBox5->Size = System::Drawing::Size(148, 55);

this->pictureBox5->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox5->TabIndex = 5;

this->pictureBox5->TabStop = false;

// pictureBox3

this->pictureBox3->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox3.Image")));

this->pictureBox3->Location = System::Drawing::Point(3, 250);

this->pictureBox3->Name = L"pictureBox3";

this->pictureBox3->Size = System::Drawing::Size(145, 64);

this->pictureBox3->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox3->TabIndex = 3;

this->pictureBox3->TabStop = false;

// button11

this->button11->Cursor = System::Windows::Forms::Cursors::Hand;

this->button11->Location = System::Drawing::Point(3, 142);

this->button11->Name = L"button11";

this->button11->Size = System::Drawing::Size(142, 23);

this->button11->TabIndex = 13;

this->button11->Text = L"Return Teacher\'s Book";

this->button11->UseVisualStyleBackColor = true;

this->button11->Click += gcnew System::EventHandler(this, &lms::button11\_Click);

// pictureBox8

this->pictureBox8->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox8.Image")));

this->pictureBox8->Location = System::Drawing::Point(0, 0);

this->pictureBox8->Name = L"pictureBox8";

this->pictureBox8->Size = System::Drawing::Size(148, 69);

this->pictureBox8->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox8->TabIndex = 2;

this->pictureBox8->TabStop = false;

// pictureBox9

this->pictureBox9->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox9.Image")));

this->pictureBox9->Location = System::Drawing::Point(0, 89);

this->pictureBox9->Name = L"pictureBox9";

this->pictureBox9->Size = System::Drawing::Size(148, 55);

this->pictureBox9->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox9->TabIndex = 5;

this->pictureBox9->TabStop = false;

// panel2

this->panel2->Controls->Add(this->pictureBox6);

this->panel2->Controls->Add(this->button6);

this->panel2->Controls->Add(this->button4);

this->panel2->Controls->Add(this->pictureBox4);

this->panel2->Controls->Add(this->button11);

this->panel2->Controls->Add(this->button12);

this->panel2->Controls->Add(this->pictureBox8);

this->panel2->Controls->Add(this->pictureBox9);

this->panel2->Location = System::Drawing::Point(747, -2);

this->panel2->Name = L"panel2";

this->panel2->Size = System::Drawing::Size(148, 506);

this->panel2->TabIndex = 17;

// pictureBox6

this->pictureBox6->Cursor = System::Windows::Forms::Cursors::Hand;

this->pictureBox6->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox6.Image")));

this->pictureBox6->Location = System::Drawing::Point(9, 433);

this->pictureBox6->Name = L"pictureBox6";

this->pictureBox6->Size = System::Drawing::Size(91, 73);

this->pictureBox6->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox6->TabIndex = 21;

this->pictureBox6->TabStop = false;

// button6

this->button6->Cursor = System::Windows::Forms::Cursors::Hand;

this->button6->Location = System::Drawing::Point(93, 453);

this->button6->Name = L"button6";

this->button6->Size = System::Drawing::Size(52, 39);

this->button6->TabIndex = 20;

this->button6->Text = L"Close";

this->button6->UseVisualStyleBackColor = true;

this->button6->Click += gcnew System::EventHandler(this, &lms::button6\_Click\_1);

// button4

this->button4->Cursor = System::Windows::Forms::Cursors::Hand;

this->button4->Location = System::Drawing::Point(13, 242);

this->button4->Name = L"button4";

this->button4->Size = System::Drawing::Size(123, 23);

this->button4->TabIndex = 19;

this->button4->Text = L"Teacher\'s Detail";

this->button4->UseVisualStyleBackColor = true;

this->button4->Click += gcnew System::EventHandler(this, &lms::button4\_Click);

// pictureBox4

this->pictureBox4->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox4.Image")));

this->pictureBox4->Location = System::Drawing::Point(2, 173);

this->pictureBox4->Name = L"pictureBox4";

this->pictureBox4->Size = System::Drawing::Size(145, 69);

this->pictureBox4->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox4->TabIndex = 18;

this->pictureBox4->TabStop = false;

// button12

this->button12->Cursor = System::Windows::Forms::Cursors::Hand;

this->button12->Location = System::Drawing::Point(9, 60);

this->button12->Name = L"button12";

this->button12->Size = System::Drawing::Size(130, 23);

this->button12->TabIndex = 12;

this->button12->Text = L"Issue Teacher\'s Book";

this->button12->UseVisualStyleBackColor = true;

this->button12->Click += gcnew System::EventHandler(this, &lms::button12\_Click);

//

// lms

//

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->ClientSize = System::Drawing::Size(895, 502);

this->Controls->Add(this->panel2);

this->Controls->Add(this->panel1);

this->IsMdiContainer = true;

this->Name = L"lms";

this->Text = L"Library Management System";

this->panel1->ResumeLayout(false);

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox1))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox2))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox5))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox3))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox8))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox9))->EndInit();

this->panel2->ResumeLayout(false);

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox6))->EndInit();

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox4))->EndInit();

this->ResumeLayout(false);

}

#pragma endregion

private: System::Void button6\_Click(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void button1\_Click(System::Object^ sender, System::EventArgs^ e) {

LibraryManagementSystem ::IssueBook^ MyBaby = gcnew LibraryManagementSystem::IssueBook;

MyBaby->MdiParent = this;

MyBaby->Show();

}

private: System::Void button5\_Click(System::Object^ sender, System::EventArgs^ e) {

LibraryManagementSystem ::Add^ MyBaby = gcnew LibraryManagementSystem::Add;

MyBaby->MdiParent = this;

MyBaby->Show();

}

private: System::Void button7\_Click(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void button6\_Click\_1(System::Object^ sender, System::EventArgs^ e)

this->Hide();

}

private: System::Void button12\_Click(System::Object^ sender, System::EventArgs^ e) {

LibraryManagementSystem ::tchrb^ MyBaby = gcnew LibraryManagementSystem::tchrb;

MyBaby->MdiParent = this;

MyBaby->Show();

}

private: System::Void button11\_Click(System::Object^ sender, System::EventArgs^ e) {

LibraryManagementSystem ::returnt^ MyBaby = gcnew LibraryManagementSystem::returnt;

MyBaby->MdiParent = this;

MyBaby->Show();

}

private: System::Void button2\_Click(System::Object^ sender, System::EventArgs^ e) {

LibraryManagementSystem ::returns^ MyBaby = gcnew LibraryManagementSystem::returns;

MyBaby->MdiParent = this;

MyBaby->Show();

}

private: System::Void button3\_Click(System::Object^ sender, System::EventArgs^ e) {

LibraryManagementSystem ::studetails^ MyBaby = gcnew LibraryManagementSystem::studetails;

MyBaby->MdiParent = this;

MyBaby->Show();

}

private: System::Void button4\_Click(System::Object^ sender, System::EventArgs^ e) {

LibraryManagementSystem ::tdetails^ MyBaby = gcnew LibraryManagementSystem::tdetails;

MyBaby->MdiParent = this;

MyBaby->Show();

}

};

}

**Issue student’s book screen**

#pragma once

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

using namespace MySql::Data::MySqlClient;

public ref class IssueBook : public System::Windows::Forms::Form

{

public:

IssueBook(void)

{

InitializeComponent();

Fillcombo();

Fillcombo2();

//TODO: Add the constructor code here

}

protected:

/// <summary>

/// Clean up any resources being used.

/// </summary>

~IssueBook()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::Label^ label1;

protected:

private: System::Windows::Forms::Button^ button1;

private: System::Windows::Forms::Panel^ panel1;

private: System::Windows::Forms::Panel^ panel2;

private: System::Windows::Forms::TextBox^ textBox7;

private: System::Windows::Forms::TextBox^ textBox6;

private: System::Windows::Forms::TextBox^ textBox5;

private: System::Windows::Forms::Label^ label8;

private: System::Windows::Forms::Label^ label7;

private: System::Windows::Forms::Label^ label6;

private: System::Windows::Forms::Button^ button2;

private: System::Windows::Forms::Label^ label5;

private: System::Windows::Forms::Label^ label4;

private: System::Windows::Forms::TextBox^ textBox3;

private: System::Windows::Forms::Label^ label3;

private: System::Windows::Forms::TextBox^ textBox2;

private: System::Windows::Forms::Label^ label2;

private: System::Windows::Forms::Button^ button3;

private: System::Windows::Forms::ComboBox^ comboBox1;

private: System::Windows::Forms::Label^ label9;

private: System::Windows::Forms::TextBox^ textBox4;

private: System::Windows::Forms::Label^ label10;

private: System::Windows::Forms::ComboBox^ comboBox2;

private: System::Windows::Forms::TextBox^ textBox1;

private:

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

void InitializeComponent(void)

{

this->label1 = (gcnew System::Windows::Forms::Label());

this->button1 = (gcnew System::Windows::Forms::Button());

this->panel1 = (gcnew System::Windows::Forms::Panel());

this->comboBox1 = (gcnew System::Windows::Forms::ComboBox());

this->panel2 = (gcnew System::Windows::Forms::Panel());

this->textBox4 = (gcnew System::Windows::Forms::TextBox());

this->label10 = (gcnew System::Windows::Forms::Label());

this->label9 = (gcnew System::Windows::Forms::Label());

this->textBox7 = (gcnew System::Windows::Forms::TextBox());

this->textBox6 = (gcnew System::Windows::Forms::TextBox());

this->textBox5 = (gcnew System::Windows::Forms::TextBox());

this->label8 = (gcnew System::Windows::Forms::Label());

this->label7 = (gcnew System::Windows::Forms::Label());

this->label6 = (gcnew System::Windows::Forms::Label());

this->button2 = (gcnew System::Windows::Forms::Button());

this->label5 = (gcnew System::Windows::Forms::Label());

this->label4 = (gcnew System::Windows::Forms::Label());

this->textBox3 = (gcnew System::Windows::Forms::TextBox());

this->label3 = (gcnew System::Windows::Forms::Label());

this->textBox2 = (gcnew System::Windows::Forms::TextBox());

this->label2 = (gcnew System::Windows::Forms::Label());

this->button3 = (gcnew System::Windows::Forms::Button());

this->comboBox2 = (gcnew System::Windows::Forms::ComboBox());

this->textBox1 = (gcnew System::Windows::Forms::TextBox());

this->panel1->SuspendLayout();

this->panel2->SuspendLayout();

this->SuspendLayout();

// label1

this->label1->AutoSize = true;

this->label1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 11.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label1->Location = System::Drawing::Point(43, 20);

this->label1->Name = L"label1";

this->label1->Size = System::Drawing::Size(101, 18);

this->label1->TabIndex = 0;

this->label1->Text = L"Student\'s id:";

// button1

this->button1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->button1->Location = System::Drawing::Point(296, 20);

this->button1->Name = L"button1";

this->button1->Size = System::Drawing::Size(75, 23);

this->button1->TabIndex = 3;

this->button1->Text = L"Check";

this->button1->UseVisualStyleBackColor = true;

this->button1->Click += gcnew System::EventHandler(this, &IssueBook::button1\_Click);

// panel1

this->panel1->Controls->Add(this->comboBox1);

this->panel1->Controls->Add(this->panel2);

this->panel1->Controls->Add(this->button2);

this->panel1->Controls->Add(this->label5);

this->panel1->Controls->Add(this->label4);

this->panel1->Controls->Add(this->textBox3);

this->panel1->Controls->Add(this->label3);

this->panel1->Controls->Add(this->textBox2);

this->panel1->Controls->Add(this->label2);

this->panel1->Location = System::Drawing::Point(37, 47);

this->panel1->Name = L"panel1";

this->panel1->Size = System::Drawing::Size(533, 314);

this->panel1->TabIndex = 4;

// comboBox1

this->comboBox1->FormattingEnabled = true;

this->comboBox1->Location = System::Drawing::Point(98, 68);

this->comboBox1->Name = L"comboBox1";

this->comboBox1->Size = System::Drawing::Size(121, 21);

this->comboBox1->TabIndex = 18;

// panel2

this->panel2->Controls->Add(this->textBox1);

this->panel2->Controls->Add(this->textBox4);

this->panel2->Controls->Add(this->label10);

this->panel2->Controls->Add(this->label9);

this->panel2->Controls->Add(this->textBox7);

this->panel2->Controls->Add(this->textBox6);

this->panel2->Controls->Add(this->textBox5);

this->panel2->Controls->Add(this->label8);

this->panel2->Controls->Add(this->label7);

this->panel2->Controls->Add(this->label6);

this->panel2->Location = System::Drawing::Point(12, 92);

this->panel2->Name = L"panel2";

this->panel2->Size = System::Drawing::Size(518, 219);

this->panel2->TabIndex = 17;

this->panel2->Paint += gcnew System::Windows::Forms::PaintEventHandler(this, &IssueBook::panel2\_Paint);

// textBox4

this->textBox4->Location = System::Drawing::Point(9, 112);

this->textBox4->Name = L"textBox4";

this->textBox4->Size = System::Drawing::Size(100, 21);

this->textBox4->TabIndex = 22;

// label10

this->label10->AutoSize = true;

this->label10->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label10->Location = System::Drawing::Point(6, 96);

this->label10->Name = L"label10";

this->label10->Size = System::Drawing::Size(236, 13);

this->label10->TabIndex = 21;

this->label10->Text = L"Return date from the calendar specified:";

// label9

this->label9->AutoSize = true;

this->label9->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label9->Location = System::Drawing::Point(221, 72);

this->label9->Name = L"label9";

this->label9->Size = System::Drawing::Size(72, 13);

this->label9->TabIndex = 19;

this->label9->Text = L"Issue Date:";

// textBox7

this->textBox7->Location = System::Drawing::Point(76, 51);

this->textBox7->Name = L"textBox7";

this->textBox7->Size = System::Drawing::Size(100, 21);

this->textBox7->TabIndex = 5;

// textBox6

this->textBox6->Location = System::Drawing::Point(306, 25);

this->textBox6->Name = L"textBox6";

this->textBox6->Size = System::Drawing::Size(100, 21);

this->textBox6->TabIndex = 4;

// textBox5

this->textBox5->Location = System::Drawing::Point(76, 22);

this->textBox5->Name = L"textBox5";

this->textBox5->Size = System::Drawing::Size(100, 21);

this->textBox5->TabIndex = 3;

// label8

this->label8->AutoSize = true;

this->label8->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label8->Location = System::Drawing::Point(6, 54);

this->label8->Name = L"label8";

this->label8->Size = System::Drawing::Size(63, 13);

this->label8->TabIndex = 2;

this->label8->Text = L"Publisher:";

this->label8->Click += gcnew System::EventHandler(this, &IssueBook::label8\_Click);

// label7

this->label7->AutoSize = true;

this->label7->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label7->Location = System::Drawing::Point(220, 29);

this->label7->Name = L"label7";

this->label7->Size = System::Drawing::Size(81, 13);

this->label7->TabIndex = 1;

this->label7->Text = L"Book Author:";

// label6

this->label6->AutoSize = true;

this->label6->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label6->Location = System::Drawing::Point(0, 24);

this->label6->Name = L"label6";

this->label6->Size = System::Drawing::Size(76, 13);

this->label6->TabIndex = 0;

this->label6->Text = L"Book Name:";

// button2

this->button2->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->button2->Location = System::Drawing::Point(250, 66);

this->button2->Name = L"button2";

this->button2->Size = System::Drawing::Size(75, 23);

this->button2->TabIndex = 16;

this->button2->Text = L"Details";

this->button2->UseVisualStyleBackColor = true;

this->button2->Click += gcnew System::EventHandler(this, &IssueBook::button2\_Click);

// label5

this->label5->AutoSize = true;

this->label5->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label5->Location = System::Drawing::Point(22, 76);

this->label5->Name = L"label5";

this->label5->Size = System::Drawing::Size(51, 13);

this->label5->TabIndex = 15;

this->label5->Text = L"Book Id";

// label4

this->label4->AutoSize = true;

this->label4->Location = System::Drawing::Point(22, 76);

this->label4->Name = L"label4";

this->label4->Size = System::Drawing::Size(0, 13);

this->label4->TabIndex = 13;

// textBox3

this->textBox3->Location = System::Drawing::Point(332, 11);

this->textBox3->Name = L"textBox3";

this->textBox3->Size = System::Drawing::Size(100, 21);

this->textBox3->TabIndex = 12;

// label3

this->label3->AutoSize = true;

this->label3->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label3->Location = System::Drawing::Point(268, 13);

this->label3->Name = L"label3";

this->label3->Size = System::Drawing::Size(47, 13);

this->label3->TabIndex = 11;

this->label3->Text = L"Branch";

// textBox2

this->textBox2->Location = System::Drawing::Point(98, 11);

this->textBox2->Name = L"textBox2";

this->textBox2->Size = System::Drawing::Size(100, 21);

this->textBox2->TabIndex = 10;

// label2

this->label2->AutoSize = true;

this->label2->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label2->Location = System::Drawing::Point(22, 14);

this->label2->Name = L"label2";

this->label2->Size = System::Drawing::Size(43, 13);

this->label2->TabIndex = 9;

this->label2->Text = L"Name:";

// button3

this->button3->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->button3->Location = System::Drawing::Point(237, 367);

this->button3->Name = L"button3";

this->button3->Size = System::Drawing::Size(105, 29);

this->button3->TabIndex = 5;

this->button3->Text = L"Submit";

this->button3->UseVisualStyleBackColor = true;

this->button3->Click += gcnew System::EventHandler(this, &IssueBook::button3\_Click);

// comboBox2

this->comboBox2->FormattingEnabled = true;

this->comboBox2->Location = System::Drawing::Point(150, 20);

this->comboBox2->Name = L"comboBox2";

this->comboBox2->Size = System::Drawing::Size(121, 21);

this->comboBox2->TabIndex = 6;

this->comboBox2->SelectedIndexChanged += gcnew System::EventHandler(this, &IssueBook::comboBox2\_SelectedIndexChanged);

// textBox1

this->textBox1->Location = System::Drawing::Point(299, 69);

this->textBox1->Name = L"textBox1";

this->textBox1->Size = System::Drawing::Size(100, 21);

this->textBox1->TabIndex = 23;

// IssueBook

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->BackColor = System::Drawing::SystemColors::ActiveCaption;

this->ClientSize = System::Drawing::Size(582, 407);

this->Controls->Add(this->comboBox2);

this->Controls->Add(this->button3);

this->Controls->Add(this->panel1);

this->Controls->Add(this->button1);

this->Controls->Add(this->label1);

this->Name = L"IssueBook";

this->StartPosition = System::Windows::Forms::FormStartPosition::CenterScreen;

this->Text = L"IssueBook";

this->Load += gcnew System::EventHandler(this, &IssueBook::IssueBook\_Load);

this->MdiChildActivate += gcnew System::EventHandler(this, &IssueBook::IssueBook\_Load);

this->panel1->ResumeLayout(false);

this->panel1->PerformLayout();

this->panel2->ResumeLayout(false);

this->panel2->PerformLayout();

this->ResumeLayout(false);

this->PerformLayout();

}

#pragma endregion

private: System::Void panel2\_Paint(System::Object^ sender, System::Windows::Forms::PaintEventArgs^ e) {

}

private: System::Void button1\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.students where stuid='"+this->comboBox2->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

this->panel1->Show();

Filltext();

}

else

{

MessageBox::Show("Incorrect student id! add student if doesnot exist");

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private:void Filltext(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.students where stuid='"+this->comboBox2->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

int count=0;

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

String^ vname;

vname=myReader->GetString("stuname");

textBox2->Text=vname;

String^ bname;

bname=myReader->GetString("stubranch");

textBox3->Text=bname;

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void IssueBook\_Load(System::Object^ sender, System::EventArgs^ e) {

this->panel1->Hide();

this->panel2->Hide();

}

private: System::Void button2\_Click(System::Object^ sender, System::EventArgs^ e) {\ String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.students where stuid='"+this->comboBox2->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

this->panel2->Show();

Filltext2();

}

else

{

MessageBox::Show("Incorrect student id! add student if doesnot exist");

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private:void Filltext2(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.books where bookid='"+this->comboBox1->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

int count=0;

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

String^ vname;

vname=myReader->GetString("bname");

textBox5->Text=vname;

String^ uname;

uname=myReader->GetString("bauthor");

textBox6->Text=uname;

String^ tname;

tname=myReader->GetString("bpublisher");

textBox7->Text=tname;

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void label8\_Click(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void textBox1\_TextChanged(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void comboBox2\_SelectedIndexChanged(System::Object^ sender, System::EventArgs^ e) {

}

private:void Fillcombo(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.students;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

int id;

id=myReader->GetInt32("stuid");

comboBox2->Items->Add(id);

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private:void Fillcombo2(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.books;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

int id;

id=myReader->GetInt32("bookid");

comboBox1->Items->Add(id);

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void button3\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("insert into library.issuestu(stuid,stuname,stubranch,bookid,bname,bauthor,bpublisher,idate,rdate)values('"+this->comboBox2->Text+"','"+this->textBox2->Text+"','"+this->textBox3->Text+"','"+this->comboBox1->Text+"','"+this->textBox5->Text+"','"+this->textBox6->Text+"','"+this->textBox7->Text+"','"+this->textBox1->Text+"','"+this->textBox4->Text+"');",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

MessageBox::Show("Book Issued!");

while(myReader->Read())

{

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

};

}

**Issue Teacher’s book screen**

#pragma once

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

using namespace MySql::Data::MySqlClient;

public ref class tchrb : public System::Windows::Forms::Form

{

public:

tchrb(void)

{

InitializeComponent();

Fillcombo();

Fillcombo2();

//TODO: Add the constructor code here

}

protected:

/// <summary>

/// Clean up any resources being used.

/// </summary>

~tchrb()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::Label^ label3;

protected:

private: System::Windows::Forms::TextBox^ textBox4;

private: System::Windows::Forms::TextBox^ textBox2;

private: System::Windows::Forms::Button^ button3;

private: System::Windows::Forms::Label^ label2;

private: System::Windows::Forms::Label^ label10;

private: System::Windows::Forms::Label^ label1;

private: System::Windows::Forms::TextBox^ textBox3;

private: System::Windows::Forms::Label^ label9;

private: System::Windows::Forms::TextBox^ textBox7;

private: System::Windows::Forms::TextBox^ textBox6;

private: System::Windows::Forms::TextBox^ textBox5;

private: System::Windows::Forms::Label^ label8;

private: System::Windows::Forms::Label^ label7;

private: System::Windows::Forms::ComboBox^ comboBox1;

private: System::Windows::Forms::Panel^ panel1;

private: System::Windows::Forms::Panel^ panel2;

private: System::Windows::Forms::Label^ label6;

private: System::Windows::Forms::Button^ button2;

private: System::Windows::Forms::Label^ label5;

private: System::Windows::Forms::Label^ label4;

private: System::Windows::Forms::Button^ button1;

private: System::Windows::Forms::TextBox^ textBox1;

private: System::Windows::Forms::ComboBox^ comboBox2;

private:

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

this->label3 = (gcnew System::Windows::Forms::Label());

this->textBox4 = (gcnew System::Windows::Forms::TextBox());

this->textBox2 = (gcnew System::Windows::Forms::TextBox());

this->button3 = (gcnew System::Windows::Forms::Button());

this->label2 = (gcnew System::Windows::Forms::Label());

this->label10 = (gcnew System::Windows::Forms::Label());

this->label1 = (gcnew System::Windows::Forms::Label());

this->textBox3 = (gcnew System::Windows::Forms::TextBox());

this->label9 = (gcnew System::Windows::Forms::Label());

this->textBox7 = (gcnew System::Windows::Forms::TextBox());

this->textBox6 = (gcnew System::Windows::Forms::TextBox());

this->textBox5 = (gcnew System::Windows::Forms::TextBox());

this->label8 = (gcnew System::Windows::Forms::Label());

this->label7 = (gcnew System::Windows::Forms::Label());

this->comboBox1 = (gcnew System::Windows::Forms::ComboBox());

this->panel1 = (gcnew System::Windows::Forms::Panel());

this->panel2 = (gcnew System::Windows::Forms::Panel());

this->textBox1 = (gcnew System::Windows::Forms::TextBox());

this->label6 = (gcnew System::Windows::Forms::Label());

this->button2 = (gcnew System::Windows::Forms::Button());

this->label5 = (gcnew System::Windows::Forms::Label());

this->label4 = (gcnew System::Windows::Forms::Label());

this->button1 = (gcnew System::Windows::Forms::Button());

this->comboBox2 = (gcnew System::Windows::Forms::ComboBox());

this->panel1->SuspendLayout();

this->panel2->SuspendLayout();

this->SuspendLayout();

// label3

this->label3->AutoSize = true;

this->label3->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label3->Location = System::Drawing::Point(268, 13);

this->label3->Name = L"label3";

this->label3->Size = System::Drawing::Size(47, 13);

this->label3->TabIndex = 11;

this->label3->Text = L"Branch";

// textBox4

this->textBox4->Location = System::Drawing::Point(9, 112);

this->textBox4->Name = L"textBox4";

this->textBox4->Size = System::Drawing::Size(100, 21);

this->textBox4->TabIndex = 22;

// textBox2

this->textBox2->Location = System::Drawing::Point(98, 11);

this->textBox2->Name = L"textBox2";

this->textBox2->Size = System::Drawing::Size(100, 21);

this->textBox2->TabIndex = 10;

// button3

this->button3->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->button3->Location = System::Drawing::Point(237, 373);

this->button3->Name = L"button3";

this->button3->Size = System::Drawing::Size(105, 29);

this->button3->TabIndex = 10;

this->button3->Text = L"Submit";

this->button3->UseVisualStyleBackColor = true;

this->button3->Click += gcnew System::EventHandler(this, &tchrb::button3\_Click);

// label2

this->label2->AutoSize = true;

this->label2->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label2->Location = System::Drawing::Point(22, 14);

this->label2->Name = L"label2";

this->label2->Size = System::Drawing::Size(43, 13);

this->label2->TabIndex = 9;

this->label2->Text = L"Name:";

// label10

this->label10->AutoSize = true;

this->label10->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label10->Location = System::Drawing::Point(6, 96);

this->label10->Name = L"label10";

this->label10->Size = System::Drawing::Size(236, 13);

this->label10->TabIndex = 21;

this->label10->Text = L"Return date from the calendar specified:";

// label1

this->label1->AutoSize = true;

this->label1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 11.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label1->Location = System::Drawing::Point(43, 26);

this->label1->Name = L"label1";

this->label1->Size = System::Drawing::Size(105, 18);

this->label1->TabIndex = 6;

this->label1->Text = L"Teacher\'s id:";

// textBox3

this->textBox3->Location = System::Drawing::Point(332, 11);

this->textBox3->Name = L"textBox3";

this->textBox3->Size = System::Drawing::Size(100, 21);

this->textBox3->TabIndex = 12;

// label9

this->label9->AutoSize = true;

this->label9->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label9->Location = System::Drawing::Point(221, 72);

this->label9->Name = L"label9";

this->label9->Size = System::Drawing::Size(72, 13);

this->label9->TabIndex = 19;

this->label9->Text = L"Issue Date:";

// textBox7

this->textBox7->Location = System::Drawing::Point(76, 51);

this->textBox7->Name = L"textBox7";

this->textBox7->Size = System::Drawing::Size(100, 21);

this->textBox7->TabIndex = 5;

// textBox6

this->textBox6->Location = System::Drawing::Point(306, 25);

this->textBox6->Name = L"textBox6";

this->textBox6->Size = System::Drawing::Size(100, 21);

this->textBox6->TabIndex = 4;

// textBox5

this->textBox5->Location = System::Drawing::Point(76, 22);

this->textBox5->Name = L"textBox5";

this->textBox5->Size = System::Drawing::Size(100, 21);

this->textBox5->TabIndex = 3;

// label8

this->label8->AutoSize = true;

this->label8->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label8->Location = System::Drawing::Point(6, 54);

this->label8->Name = L"label8";

this->label8->Size = System::Drawing::Size(63, 13);

this->label8->TabIndex = 2;

this->label8->Text = L"Publisher:";

// label7

this->label7->AutoSize = true;

this->label7->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label7->Location = System::Drawing::Point(220, 29);

this->label7->Name = L"label7";

this->label7->Size = System::Drawing::Size(81, 13);

this->label7->TabIndex = 1;

this->label7->Text = L"Book Author:";

// comboBox1

this->comboBox1->FormattingEnabled = true;

this->comboBox1->Location = System::Drawing::Point(98, 68);

this->comboBox1->Name = L"comboBox1";

this->comboBox1->Size = System::Drawing::Size(121, 21);

this->comboBox1->TabIndex = 18;

// panel1

this->panel1->Controls->Add(this->comboBox1);

this->panel1->Controls->Add(this->panel2);

this->panel1->Controls->Add(this->button2);

this->panel1->Controls->Add(this->label5);

this->panel1->Controls->Add(this->label4);

this->panel1->Controls->Add(this->textBox3);

this->panel1->Controls->Add(this->label3);

this->panel1->Controls->Add(this->textBox2);

this->panel1->Controls->Add(this->label2);

this->panel1->Location = System::Drawing::Point(37, 53);

this->panel1->Name = L"panel1";

this->panel1->Size = System::Drawing::Size(533, 314);

this->panel1->TabIndex = 9;

// panel2

this->panel2->Controls->Add(this->textBox1);

this->panel2->Controls->Add(this->textBox4);

this->panel2->Controls->Add(this->label10);

this->panel2->Controls->Add(this->label9);

this->panel2->Controls->Add(this->textBox7);

this->panel2->Controls->Add(this->textBox6);

this->panel2->Controls->Add(this->textBox5);

this->panel2->Controls->Add(this->label8);

this->panel2->Controls->Add(this->label7);

this->panel2->Controls->Add(this->label6);

this->panel2->Location = System::Drawing::Point(12, 92);

this->panel2->Name = L"panel2";

this->panel2->Size = System::Drawing::Size(518, 219);

this->panel2->TabIndex = 17;

// textBox1

this->textBox1->Location = System::Drawing::Point(306, 69);

this->textBox1->Name = L"textBox1";

this->textBox1->Size = System::Draw ing::Size(100, 21);

this->textBox1->TabIndex = 23;

// label6

this->label6->AutoSize = true;

this->label6->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label6->Location = System::Drawing::Point(0, 24);

this->label6->Name = L"label6";

this->label6->Size = System::Drawing::Size(76, 13);

this->label6->TabIndex = 0;

this->label6->Text = L"Book Name:";

// button2

this->button2->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->button2->Location = System::Drawing::Point(250, 66);

this->button2->Name = L"button2";

this->button2->Size = System::Drawing::Size(75, 23);

this->button2->TabIndex = 16;

this->button2->Text = L"Details";

this->button2->UseVisualStyleBackColor = true;

this->button2->Click += gcnew System::EventHandler(this, &tchrb::button2\_Click);

// label5

this->label5->AutoSize = true;

this->label5->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->label5->Location = System::Drawing::Point(22, 76);

this->label5->Name = L"label5";

this->label5->Size = System::Drawing::Size(51, 13);

this->label5->TabIndex = 15;

this->label5->Text = L"Book Id";

// label4

this->label4->AutoSize = true;

this->label4->Location = System::Drawing::Point(22, 76);

this->label4->Name = L"label4";

this->label4->Size = System::Drawing::Size(0, 13);

this->label4->TabIndex = 13;

// button1

this->button1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->button1->Location = System::Drawing::Point(296, 26);

this->button1->Name = L"button1";

this->button1->Size = System::Drawing::Size(75, 23);

this->button1->TabIndex = 8;

this->button1->Text = L"Check";

this->button1->UseVisualStyleBackColor = true;

this->button1->Click += gcnew System::EventHandler(this, &tchrb::button1\_Click);

// comboBox2

this->comboBox2->FormattingEnabled = true;

this->comboBox2->Location = System::Drawing::Point(154, 26);

this->comboBox2->Name = L"comboBox2";

this->comboBox2->Size = System::Drawing::Size(121, 21);

this->comboBox2->TabIndex = 11;

// tchrb

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->ClientSize = System::Drawing::Size(606, 429);

this->Controls->Add(this->comboBox2);

this->Controls->Add(this->button3);

this->Controls->Add(this->label1);

this->Controls->Add(this->panel1);

this->Controls->Add(this->button1);

this->Name = L"tchrb";

this->Text = L"IssueTeacherBook";

this->Load += gcnew System::EventHandler(this, &tchrb::tchrb\_Load);

this->panel1->ResumeLayout(false);

this->panel1->PerformLayout();

this->panel2->ResumeLayout(false);

this->panel2->PerformLayout();

this->ResumeLayout(false);

this->PerformLayout();

}

#pragma endregion

private: System::Void button1\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.teacher where tid='"+this->comboBox2->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

this->panel1->Show();

Filltext();

}

else

{

MessageBox::Show("Incorrect teacher id! add teacher id if doesnot exist");

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private:void Filltext(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.teacher where tid='"+this->comboBox2->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

int count=0;

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

String^ vname;

vname=myReader->GetString("tname");

textBox2->Text=vname;

String^ bname;

bname=myReader->GetString("tbranch");

textBox3->Text=bname;

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private:void Fillcombo(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.teacher;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

int id;

id=myReader->GetInt32("tid");

comboBox2->Items->Add(id);

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void button2\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.teacher where tid='"+this->comboBox2->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

this->panel2->Show();

Filltext2();

}

else

{

MessageBox::Show("Incorrect teacher id! add teacher if doesnot exist");

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private:void Filltext2(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.books where bookid='"+this->comboBox1->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

int count=0;

while(myReader->Read())

{

count=count+1;

}

if(count==1)

{

String^ vname;

vname=myReader->GetString("bname");

textBox5->Text=vname;

String^ uname;

uname=myReader->GetString("bauthor");

textBox6->Text=uname;

String^ tname;

tname=myReader->GetString("bpublisher");

textBox7->Text=tname;

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void tchrb\_Load(System::Object^ sender, System::EventArgs^ e) {

this->panel1->Hide();

this->panel2->Hide();

}

private:void Fillcombo2(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.books;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

int id;

id=myReader->GetInt32("bookid");

comboBox1->Items->Add(id);

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void button3\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("insert into library.issuet(tid,tname,tbranch,bid,bname,bauthor,bpublisher,idate,rdate)values('"+this->comboBox2->Text+"','"+this->textBox2->Text+"','"+this->textBox3->Text+"','"+this->comboBox1->Text+"','"+this->textBox5->Text+"','"+this->textBox6->Text+"','"+this->textBox7->Text+"','"+this->textBox1->Text+"','"+this->textBox4->Text+"');",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

MessageBox::Show("Book Issued!");

while(myReader->Read())

{

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

};

}

**Return Student’s book**

#pragma once

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

using namespace MySql::Data::MySqlClient;

public ref class returns : public System::Windows::Forms::Form

{

public:

returns(void)

{

InitializeComponent();

Fillcombo();

//TODO: Add the constructor code here

}

protected:

/// <summary>

/// Clean up any resources being used.

/// </summary>

~returns()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::Label^ label1;

protected:

private: System::Windows::Forms::Label^ label2;

private: System::Windows::Forms::TextBox^ textBox2;

private: System::Windows::Forms::Button^ button1;

private: System::Windows::Forms::Button^ button2;

private: System::Windows::Forms::TextBox^ textBox3;

private: System::Windows::Forms::Label^ label3;

private: System::Windows::Forms::ComboBox^ comboBox1;

protected:

private:

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

this->label1 = (gcnew System::Windows::Forms::Label());

this->label2 = (gcnew System::Windows::Forms::Label());

this->textBox2 = (gcnew System::Windows::Forms::TextBox());

this->button1 = (gcnew System::Windows::Forms::Button());

this->button2 = (gcnew System::Windows::Forms::Button());

this->textBox3 = (gcnew System::Windows::Forms::TextBox());

this->label3 = (gcnew System::Windows::Forms::Label());

this->comboBox1 = (gcnew System::Windows::Forms::ComboBox());

this->SuspendLayout();

// label1

this->label1->AutoSize = true;

this->label1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label1->Location = System::Drawing::Point(27, 38);

this->label1->Name = L"label1";

this->label1->Size = System::Drawing::Size(81, 16);

this->label1->TabIndex = 0;

this->label1->Text = L"Student id:";

// label2

this->label2->AutoSize = true;

this->label2->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label2->Location = System::Drawing::Point(35, 145);

this->label2->Name = L"label2";

this->label2->Size = System::Drawing::Size(92, 16);

this->label2->TabIndex = 2;

this->label2->Text = L"Return date:";

// textBox2

this->textBox2->Location = System::Drawing::Point(140, 140);

this->textBox2->Name = L"textBox2";

this->textBox2->ReadOnly = true;

this->textBox2->Size = System::Drawing::Size(100, 21);

this->textBox2->TabIndex = 3;

// button1

this->button1->Location = System::Drawing::Point(241, 210);

this->button1->Name = L"button1";

this->button1->Size = System::Drawing::Size(75, 23);

this->button1->TabIndex = 4;

this->button1->Text = L"Return";

this->button1->UseVisualStyleBackColor = true;

this->button1->Click += gcnew System::EventHandler(this, &returns::button1\_Click);

// button2

this->button2->Location = System::Drawing::Point(52, 210);

this->button2->Name = L"button2";

this->button2->Size = System::Drawing::Size(75, 23);

this->button2->TabIndex = 5;

this->button2->Text = L"Check";

this->button2->UseVisualStyleBackColor = true;

this->button2->Click += gcnew System::EventHandler(this, &returns::button2\_Click);

// textBox3

this->textBox3->Location = System::Drawing::Point(140, 86);

this->textBox3->Name = L"textBox3";

this->textBox3->Size = System::Drawing::Size(100, 21);

this->textBox3->TabIndex = 6;

// label3

this->label3->AutoSize = true;

this->label3->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label3->Location = System::Drawing::Point(27, 86);

this->label3->Name = L"label3";

this->label3->Size = System::Drawing::Size(100, 16);

this->label3->TabIndex = 7;

this->label3->Text = L"Today\'s date";

// comboBox1

this->comboBox1->FormattingEnabled = true;

this->comboBox1->Location = System::Drawing::Point(140, 33);

this->comboBox1->Name = L"comboBox1";

this->comboBox1->Size = System::Drawing::Size(121, 21);

this->comboBox1->TabIndex = 8;

// returns

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->ClientSize = System::Drawing::Size(423, 269);

this->Controls->Add(this->comboBox1);

this->Controls->Add(this->label3);

this->Controls->Add(this->textBox3);

this->Controls->Add(this->button2);

this->Controls->Add(this->button1);

this->Controls->Add(this->textBox2);

this->Controls->Add(this->label2);

this->Controls->Add(this->label1);

this->Name = L"returns";

this->Text = L"returns";

this->Load += gcnew System::EventHandler(this, &returns::returns\_Load);

this->ResumeLayout(false);

this->PerformLayout();

}

#pragma endregion

private: System::Void returns\_Load(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void button1\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("delete from library.issuestu where stuid='"+this->comboBox1->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

MessageBox::Show("Book Returned!");

while(myReader->Read())

{

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void button2\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.issuestu;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

String^ id;

while(myReader->Read())

{

id=myReader->GetString("rdate");

textBox2->Text=id;

}

String^ td;

td=textBox3->Text;

int f\_value =System::Convert::ToInt32(id);

int f\_value1 =System::Convert::ToInt32(td);

if(f\_value==f\_value1)

{

MessageBox::Show(" Returning book on time.No fine!");

}

else if(f\_value>f\_value1)

{

MessageBox::Show(" Returning book before time.No fine!");

}

else

{

MessageBox::Show(" Returning book not on time.10 Rs.fine will be charged!");

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private:void Fillcombo(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.issuestu;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

int id;

id=myReader->GetInt32("stuid");

comboBox1->Items->Add(id);

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

} }

};

}

**Return Teacher’s book**

#pragma once

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

using namespace MySql::Data::MySqlClient;

public ref class returnt : public System::Windows::Forms::Form

{

public:

returnt(void)

{

InitializeComponent();

Fillcombo();

}

protected:

~returnt()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::Label^ label3;

protected:

private: System::Windows::Forms::TextBox^ textBox3;

private: System::Windows::Forms::Button^ button2;

private: System::Windows::Forms::Button^ button1;

private: System::Windows::Forms::TextBox^ textBox2;

private: System::Windows::Forms::Label^ label2;

private: System::Windows::Forms::Label^ label1;

private: System::Windows::Forms::ComboBox^ comboBox1;

protected:

private:

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

this->label3 = (gcnew System::Windows::Forms::Label());

this->textBox3 = (gcnew System::Windows::Forms::TextBox());

this->button2 = (gcnew System::Windows::Forms::Button());

this->button1 = (gcnew System::Windows::Forms::Button());

this->textBox2 = (gcnew System::Windows::Forms::TextBox());

this->label2 = (gcnew System::Windows::Forms::Label());

this->label1 = (gcnew System::Windows::Forms::Label());

this->comboBox1 = (gcnew System::Windows::Forms::ComboBox());

this->SuspendLayout();

// label3

this->label3->AutoSize = true;

this->label3->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label3->Location = System::Drawing::Point(55, 97);

this->label3->Name = L"label3";

this->label3->Size = System::Drawing::Size(100, 16);

this->label3->TabIndex = 15;

this->label3->Text = L"Today\'s date";

// textBox3

this->textBox3->Location = System::Drawing::Point(168, 97);

this->textBox3->Name = L"textBox3";

this->textBox3->Size = System::Drawing::Size(100, 21);

this->textBox3->TabIndex = 14;

// button2

this->button2->Location = System::Drawing::Point(80, 216);

this->button2->Name = L"button2";

this->button2->Size = System::Drawing::Size(75, 23);

this->button2->TabIndex = 13;

this->button2->Text = L"Check";

this->button2->UseVisualStyleBackColor = true;

this->button2->Click += gcnew System::EventHandler(this, &returnt::button2\_Click);

// button1

this->button1->Location = System::Drawing::Point(203, 216);

this->button1->Name = L"button1";

this->button1->Size = System::Drawing::Size(75, 23);

this->button1->TabIndex = 12;

this->button1->Text = L"Return";

this->button1->UseVisualStyleBackColor = true;

this->button1->Click += gcnew System::EventHandler(this, &returnt::button1\_Click);

// textBox2

this->textBox2->Location = System::Drawing::Point(168, 159);

this->textBox2->Name = L"textBox2";

this->textBox2->ReadOnly = true;

this->textBox2->Size = System::Drawing::Size(100, 21);

this->textBox2->TabIndex = 11;

// label2

this->label2->AutoSize = true;

this->label2->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label2->Location = System::Drawing::Point(63, 159);

this->label2->Name = L"label2";

this->label2->Size = System::Drawing::Size(92, 16);

this->label2->TabIndex = 10;

this->label2->Text = L"Return date:";

// label1

this->label1->AutoSize = true;

this->label1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label1->Location = System::Drawing::Point(55, 39);

this->label1->Name = L"label1";

this->label1->Size = System::Drawing::Size(99, 16);

this->label1->TabIndex = 8;

this->label1->Text = L"Teacher\'s id:";

// comboBox1

this->comboBox1->FormattingEnabled = true;

this->comboBox1->Location = System::Drawing::Point(168, 38);

this->comboBox1->Name = L"comboBox1";

this->comboBox1->Size = System::Drawing::Size(121, 21);

this->comboBox1->TabIndex = 16;

// returnt

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->ClientSize = System::Drawing::Size(372, 282);

this->Controls->Add(this->comboBox1);

this->Controls->Add(this->label3);

this->Controls->Add(this->textBox3);

this->Controls->Add(this->button2);

this->Controls->Add(this->button1);

this->Controls->Add(this->textBox2);

this->Controls->Add(this->label2);

this->Controls->Add(this->label1);

this->Name = L"returnt";

this->Text = L"returnt";

this->ResumeLayout(false);

this->PerformLayout();

}

#pragma endregion

private: System::Void button2\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.issuet;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

String^ id;

while(myReader->Read())

{

id=myReader->GetString("rdate");

textBox2->Text=id;

}

String^ td;

td=textBox3->Text;

int f\_value =System::Convert::ToInt32(id);

int f\_value1 =System::Convert::ToInt32(td);

if(f\_value==f\_value1)

{

MessageBox::Show(" Returning book on time.No fine!");

}

else if(f\_value>f\_value1)

{

MessageBox::Show(" Returning book before time.No fine!");

}

else

{

MessageBox::Show(" Returning book not on time.10 Rs.fine will be charged!");

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private: System::Void button1\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("delete from library.issuet where tid='"+this->comboBox1->Text+"';",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

MessageBox::Show("Book Returned!");

while(myReader->Read())

{

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

private:void Fillcombo(void)

{

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.issuet;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

while(myReader->Read())

{

int id;

id=myReader->GetInt32("tid");

comboBox1->Items->Add(id);

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

};

}

Student’s details

#pragma once

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

using namespace MySql::Data::MySqlClient;

public ref class studetails : public System::Windows::Forms::Form

{

public:

studetails(void)

{

InitializeComponent();

//TODO: Add the constructor code here

}

protected:

~studetails()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::DataGridView^ dataGridView1;

protected:

private:

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

this->dataGridView1 = (gcnew System::Windows::Forms::DataGridView());

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->dataGridView1))->BeginInit();

this->SuspendLayout();

// dataGridView1

this->dataGridView1->ColumnHeadersHeightSizeMode = System::Windows::Forms::DataGridViewColumnHeadersHeightSizeMode::AutoSize;

this->dataGridView1->Dock = System::Windows::Forms::DockStyle::Fill;

this->dataGridView1->Location = System::Drawing::Point(0, 0);

this->dataGridView1->Name = L"dataGridView1";

this->dataGridView1->RowTemplate->Height = 23;

this->dataGridView1->Size = System::Drawing::Size(603, 355);

this->dataGridView1->TabIndex = 0;

// studetails

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->ClientSize = System::Drawing::Size(603, 355);

this->Controls->Add(this->dataGridView1);

this->Name = L"studetails";

this->Text = L"studetails";

this->Load += gcnew System::EventHandler(this, &studetails::studetails\_Load);

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->dataGridView1))->EndInit();

this->ResumeLayout(false);

}

#pragma endregion

private: System::Void studetails\_Load(System::Object^ sender, System::EventArgs^ e) {

String^constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.issuestu;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

MySqlDataAdapter^ sda=gcnew MySqlDataAdapter();

sda->SelectCommand=cmdDataBase;

DataTable^ dbdataset=gcnew DataTable();

sda->Fill(dbdataset);

BindingSource^ bs=gcnew BindingSource();

bs->DataSource=dbdataset;

dataGridView1->DataSource=bs;

sda->Update(dbdataset);

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

};

}

**Teacher’s details**

#pragma once

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

using namespace MySql::Data::MySqlClient;

public ref class tdetails : public System::Windows::Forms::Form

{

public:

tdetails(void)

{

InitializeComponent();

//TODO: Add the constructor code here

}

protected:

~tdetails()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::DataGridView^ dataGridView1;

protected:

private:

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

this->dataGridView1 = (gcnew System::Windows::Forms::DataGridView());

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->dataGridView1))->BeginInit();

this->SuspendLayout();

// dataGridView1

this->dataGridView1->ColumnHeadersHeightSizeMode = System::Windows::Forms::DataGridViewColumnHeadersHeightSizeMode::AutoSize;

this->dataGridView1->Dock = System::Windows::Forms::DockStyle::Fill;

this->dataGridView1->Location = System::Drawing::Point(0, 0);

this->dataGridView1->Name = L"dataGridView1";

this->dataGridView1->RowTemplate->Height = 23;

this->dataGridView1->Size = System::Drawing::Size(501, 312);

this->dataGridView1->TabIndex = 0;

// tdetails

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->ClientSize = System::Drawing::Size(501, 312);

this->Controls->Add(this->dataGridView1);

this->Name = L"tdetails";

this->Text = L"tdetails";

this->Load += gcnew System::EventHandler(this, &tdetails::tdetails\_Load);

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->dataGridView1))->EndInit();

this->ResumeLayout(false);

}

#pragma endregion

private: System::Void tdetails\_Load(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("select \* from library.issuet;",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

MySqlDataAdapter^ sda=gcnew MySqlDataAdapter();

sda->SelectCommand=cmdDataBase;

DataTable^ dbdataset=gcnew DataTable();

sda->Fill(dbdataset);

BindingSource^ bs=gcnew BindingSource();

bs->DataSource=dbdataset;

dataGridView1->DataSource=bs;

sda->Update(dbdataset);

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

};

}

**Add books**

#pragma once

namespace LibraryManagementSystem {

using namespace System;

using namespace System::ComponentModel;

using namespace System::Collections;

using namespace System::Windows::Forms;

using namespace System::Data;

using namespace System::Drawing;

using namespace MySql::Data::MySqlClient;

public ref class Add : public System::Windows::Forms::Form

{

public:

Add(void)

{

InitializeComponent();

//TODO: Add the constructor code here

}

protected:

~Add()

{

if (components)

{

delete components;

}

}

private: System::Windows::Forms::Label^ label1;

protected:

private: System::Windows::Forms::Label^ label2;

private: System::Windows::Forms::Label^ label3;

private: System::Windows::Forms::Label^ label4;

private: System::Windows::Forms::TextBox^ textBox1;

private: System::Windows::Forms::TextBox^ textBox2;

private: System::Windows::Forms::TextBox^ textBox3;

private: System::Windows::Forms::Button^ button1;

private: System::Windows::Forms::PictureBox^ pictureBox1;

private: System::Windows::Forms::Label^ label5;

private: System::Windows::Forms::TextBox^ textBox4;

private:

System::ComponentModel::Container ^components;

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

System::ComponentModel::ComponentResourceManager^ resources = (gcnew System::ComponentModel::ComponentResourceManager(Add::typeid));

this->label1 = (gcnew System::Windows::Forms::Label());

this->label2 = (gcnew System::Windows::Forms::Label());

this->label3 = (gcnew System::Windows::Forms::Label());

this->label4 = (gcnew System::Windows::Forms::Label());

this->textBox1 = (gcnew System::Windows::Forms::TextBox());

this->textBox2 = (gcnew System::Windows::Forms::TextBox());

this->textBox3 = (gcnew System::Windows::Forms::TextBox());

this->button1 = (gcnew System::Windows::Forms::Button());

this->pictureBox1 = (gcnew System::Windows::Forms::PictureBox());

this->label5 = (gcnew System::Windows::Forms::Label());

this->textBox4 = (gcnew System::Windows::Forms::TextBox());

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox1))->BeginInit();

this->SuspendLayout();

// label1

this->label1->AutoSize = true;

this->label1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 14.25F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label1->Location = System::Drawing::Point(245, 24);

this->label1->Name = L"label1";

this->label1->Size = System::Drawing::Size(100, 24);

this->label1->TabIndex = 0;

this->label1->Text = L"Add book";

// label2

this->label2->AutoSize = true;

this->label2->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label2->Location = System::Drawing::Point(317, 93);

this->label2->Name = L"label2";

this->label2->Size = System::Drawing::Size(89, 16);

this->label2->TabIndex = 1;

this->label2->Text = L"Book Name";

// label3

this->label3->AutoSize = true;

this->label3->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label3->Location = System::Drawing::Point(317, 175);

this->label3->Name = L"label3";

this->label3->Size = System::Drawing::Size(113, 16);

this->label3->TabIndex = 2;

this->label3->Text = L"Book Publisher";

this->label3->Click += gcnew System::EventHandler(this, &Add::label3\_Click);

// label4

this->label4->AutoSize = true;

this->label4->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9.75F, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label4->Location = System::Drawing::Point(41, 180);

this->label4->Name = L"label4";

this->label4->Size = System::Drawing::Size(92, 16);

this->label4->TabIndex = 3;

this->label4->Text = L"Book Author";

// textBox1

this->textBox1->Location = System::Drawing::Point(453, 92);

this->textBox1->Name = L"textBox1";

this->textBox1->Size = System::Drawing::Size(100, 21);

this->textBox1->TabIndex = 4;

// textBox2

this->textBox2->Location = System::Drawing::Point(160, 175);

this->textBox2->Name = L"textBox2";

this->textBox2->Size = System::Drawing::Size(100, 21);

this->textBox2->TabIndex = 5;

// textBox3

this->textBox3->Location = System::Drawing::Point(453, 175);

this->textBox3->Name = L"textBox3";

this->textBox3->Size = System::Drawing::Size(100, 21);

this->textBox3->TabIndex = 6;

// button1

this->button1->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 8.25F, System::Drawing::FontStyle::Bold, System::Drawing::GraphicsUnit::Point,

static\_cast<System::Byte>(0)));

this->button1->Location = System::Drawing::Point(249, 246);

this->button1->Name = L"button1";

this->button1->Size = System::Drawing::Size(104, 29);

this->button1->TabIndex = 7;

this->button1->Text = L"Add";

this->button1->UseVisualStyleBackColor = true;

this->button1->Click += gcnew System::EventHandler(this, &Add::button1\_Click);

// pictureBox1

this->pictureBox1->Image = (cli::safe\_cast<System::Drawing::Image^ >(resources->GetObject(L"pictureBox1.Image")));

this->pictureBox1->Location = System::Drawing::Point(434, 246);

this->pictureBox1->Name = L"pictureBox1";

this->pictureBox1->Size = System::Drawing::Size(176, 125);

this->pictureBox1->SizeMode = System::Windows::Forms::PictureBoxSizeMode::StretchImage;

this->pictureBox1->TabIndex = 8;

this->pictureBox1->TabStop = false;

// label5

this->label5->AutoSize = true;

this->label5->Font = (gcnew System::Drawing::Font(L"Microsoft Sans Serif", 9, static\_cast<System::Drawing::FontStyle>((System::Drawing::FontStyle::Bold | System::Drawing::FontStyle::Italic)),

System::Drawing::GraphicsUnit::Point, static\_cast<System::Byte>(0)));

this->label5->Location = System::Drawing::Point(41, 96);

this->label5->Name = L"label5";

this->label5->Size = System::Drawing::Size(59, 15);

this->label5->TabIndex = 9;

this->label5->Text = L"Book Id:";

// textBox4

this->textBox4->Location = System::Drawing::Point(160, 93);

this->textBox4->Name = L"textBox4";

this->textBox4->Size = System::Drawing::Size(100, 21);

this->textBox4->TabIndex = 10;

// Add

this->AutoScaleDimensions = System::Drawing::SizeF(6, 13);

this->AutoScaleMode = System::Windows::Forms::AutoScaleMode::Font;

this->BackColor = System::Drawing::SystemColors::ActiveCaption;

this->ClientSize = System::Drawing::Size(622, 385);

this->Controls->Add(this->textBox4);

this->Controls->Add(this->label5);

this->Controls->Add(this->pictureBox1);

this->Controls->Add(this->button1);

this->Controls->Add(this->textBox3);

this->Controls->Add(this->textBox2);

this->Controls->Add(this->textBox1);

this->Controls->Add(this->label4);

this->Controls->Add(this->label3);

this->Controls->Add(this->label2);

this->Controls->Add(this->label1);

this->Name = L"Add";

this->StartPosition = System::Windows::Forms::FormStartPosition::CenterScreen;

this->Text = L"Add";

this->Load += gcnew System::EventHandler(this, &Add::Add\_Load);

(cli::safe\_cast<System::ComponentModel::ISupportInitialize^ >(this->pictureBox1))->EndInit();

this->ResumeLayout(false);

this->PerformLayout();

}

#pragma endregion

private: System::Void Add\_Load(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void label3\_Click(System::Object^ sender, System::EventArgs^ e) {

}

private: System::Void button1\_Click(System::Object^ sender, System::EventArgs^ e) {

String^ constring=L"datasource=localhost;port=3306;username=root;password=root";

MySqlConnection^ conDataBase=gcnew MySqlConnection(constring);

MySqlCommand^ cmdDataBase=gcnew MySqlCommand("insert into library.books(bookid,bname,bauthor,bpublisher)values('"+this->textBox4->Text+"','"+this->textBox1->Text+"','"+this->textBox2->Text+"','"+this->textBox3->Text+"');",conDataBase);

MySqlDataReader^ myReader;

int count=0;

try{

conDataBase->Open();

myReader=cmdDataBase->ExecuteReader();

MessageBox::Show("Book Added!");

while(myReader->Read())

{

}

}

catch(Exception^ ex)

{

MessageBox::Show(ex->Message);

}

}

};

}

**Chapter-6**

**OUTPUT SCREEN**



Fig 6.0 Login Screen

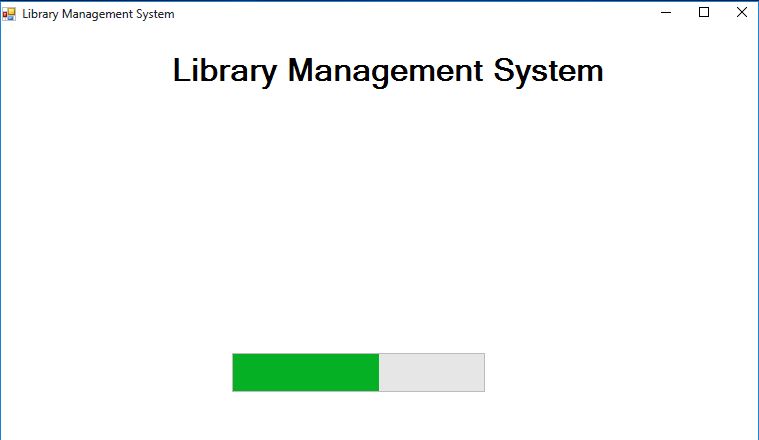


Fig 6.1 Loading Screen

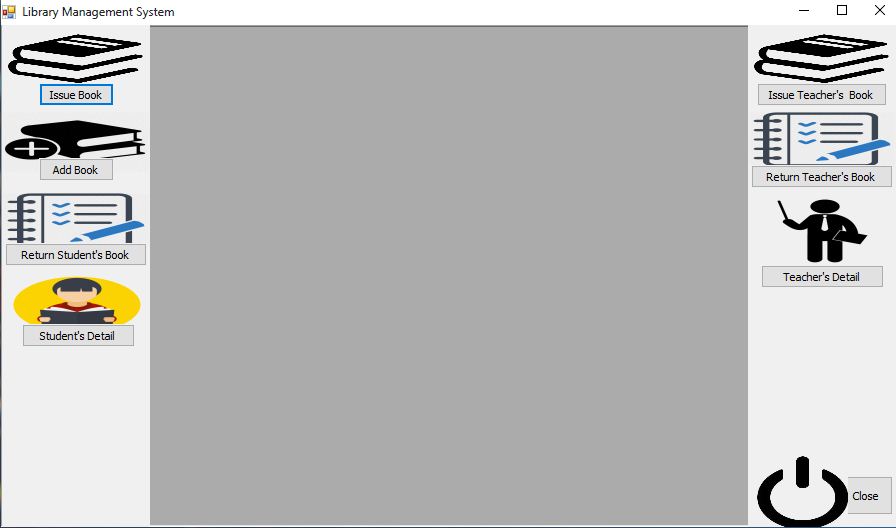


Fig 6.2 Main Menu Screen

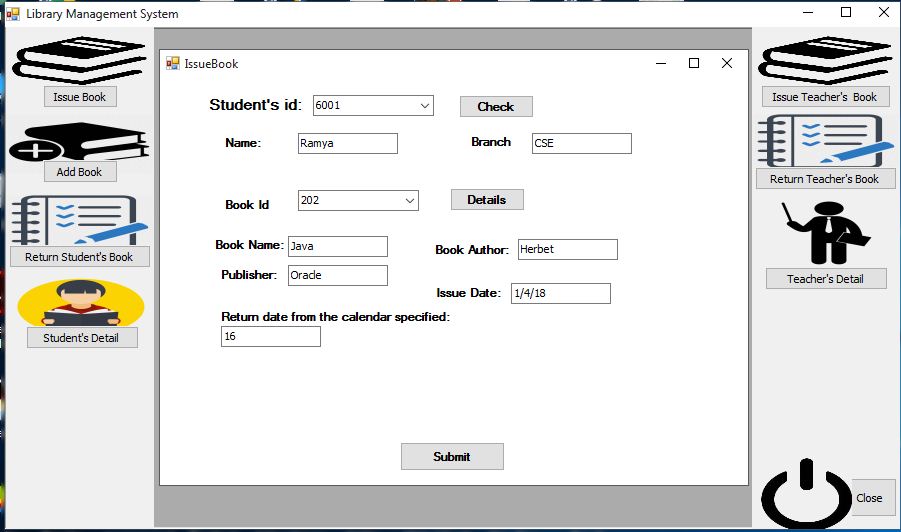


Fig 6.3 Issue Student's Book

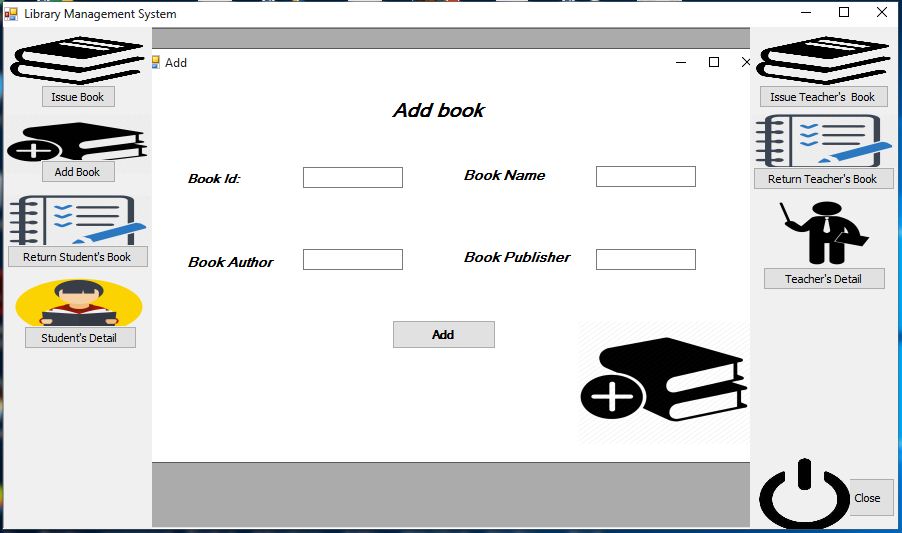


Fig 6.4 Add Book

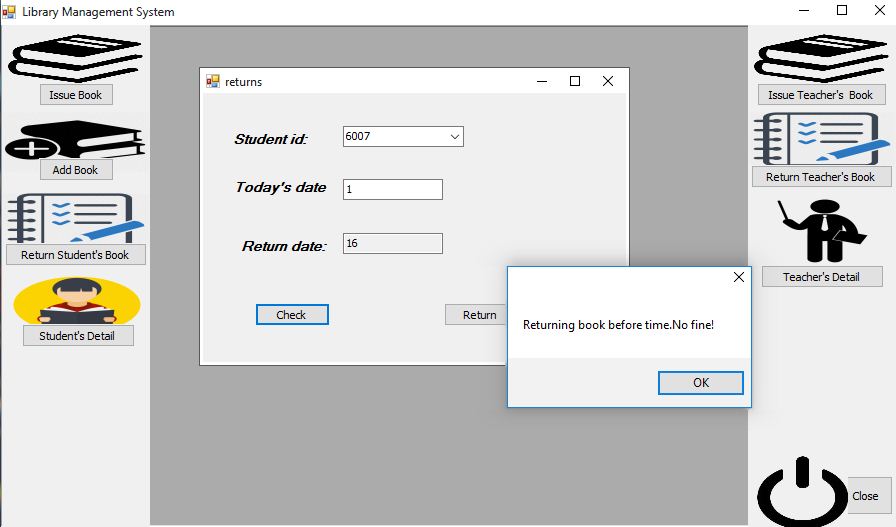


Fig 6.5 Return Student's Book

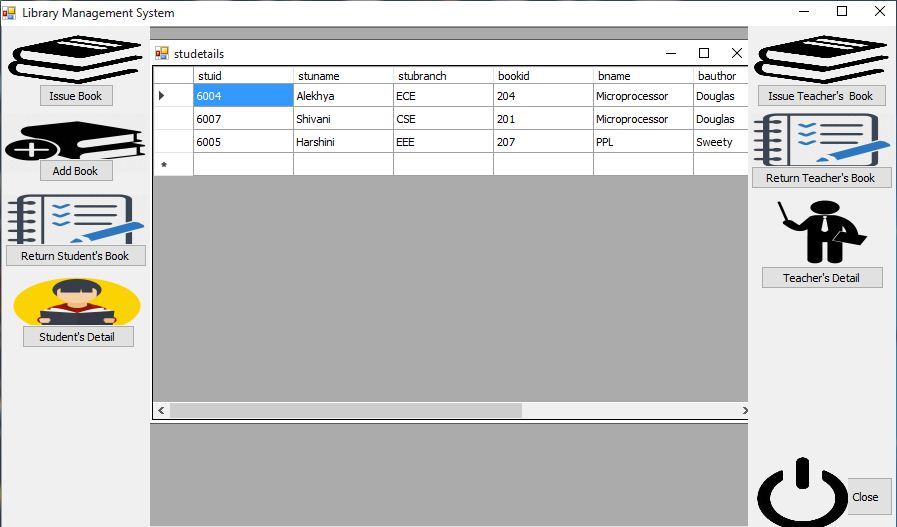


Fig 6.6 Student Details

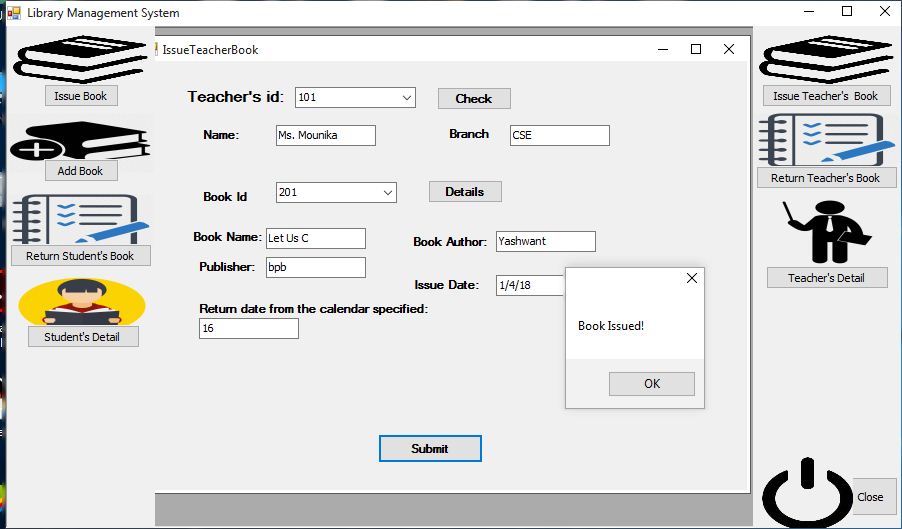


Fig 6.7 Issue Teacher’s Book

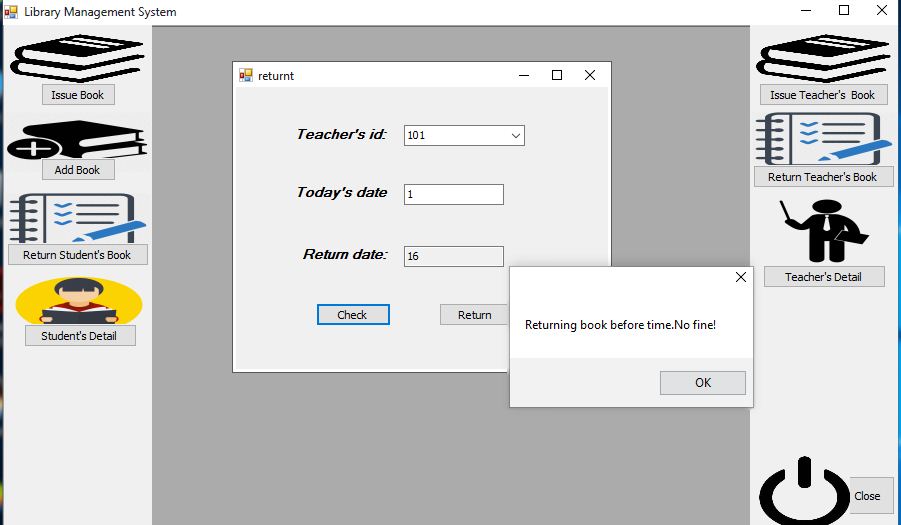


Fig 6.7 Return Teacher’s Book

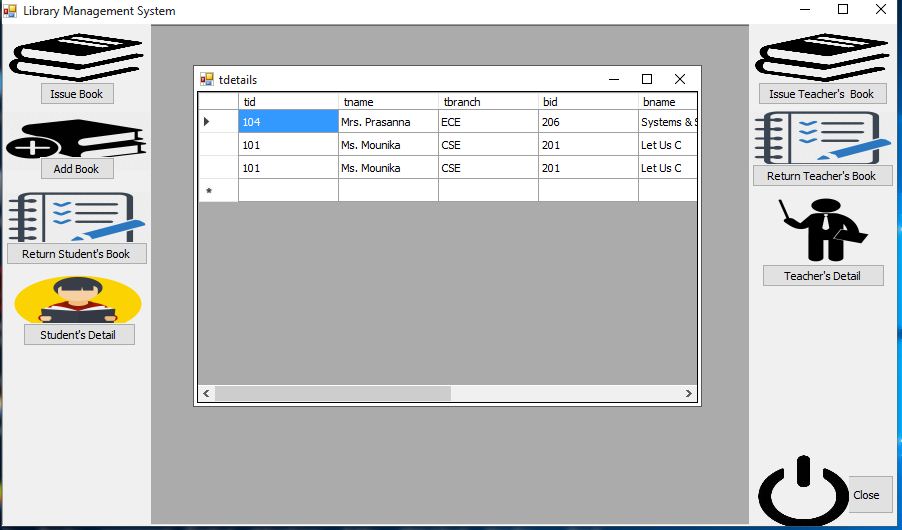


Fig 6.8 Teacher’s Details

**Chapter-7**

**CONCLUSION**

* Thus the Library Management System, has been computed successfully and was also tested successfully. It is user friendly, and has required options.
* The software is developed using Visual Studio and MySQL in Windows Environment. The goals that are achieved by

1. Simplification of the Operations
2. User Friendly
3. Less Processing Time and getting required information
4. Flexible for further enhancement

**Chapter-8**

**FUTURE ENHANCEMENTS**

It is not possible to develop a system that makes all the requirements of the user. User requirements keep changing as the system is being used. Some of the future enhancements that can be done to this system are

(i) Based on the future security issues, security can be improved.

(ii) Barcode can be added.

(iii)Online management system can be created.

(iv)As the technology emerges, it is possible to upgrade the system and can be adaptable to desired environment.

**Chapter-9**

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