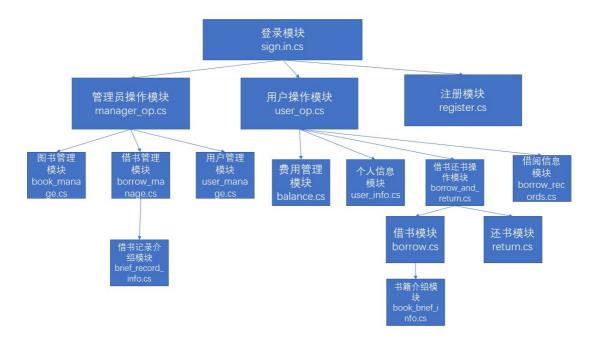
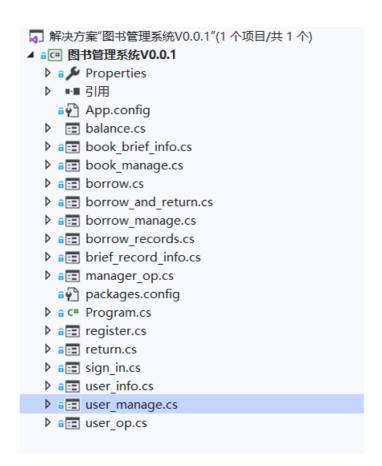
模块及对应代码说明



• 模块如下:



总的有效功能代码量1118,平均每一个模块有效功能代码70行

部分主要逻辑代码:

```
public partial class user_info : Form
{
```

```
public user_info()
        {
            InitializeComponent();
        }
        private void user_info_Load(object sender, EventArgs e)
        {
            //直接把信息填入到textbox中
            string user_name = sign_in.sign_name;
            string user_pass = sign_in.sign_password;
            string query_text_find_user = "select * from user_info where
username = \'" + user_name + "\'";
            NpgsqlConnection conn = new NpgsqlConnection(sign_in.connstr);
            NpgsqlCommand cmd = new NpgsqlCommand(query_text_find_user, conn);
            conn.Open();
            NpgsqlDataReader reader = cmd.ExecuteReader();
            reader.Read();
            textBox1.Text = reader.GetString(0);
            textBox2.Text = reader.GetString(1);
            try
                textBox3.Text = reader.GetString(2);
            }catch(Exception ex)
            {
                textBox3.Text = "";
            }
            try
                textBox4.Text = reader.GetString(3);
            }catch(Exception ex)
                textBox4.Text = "";
            }
            try
                textBox5.Text = reader.GetString(4);
            }catch(Exception ex)
                textBox5.Text = "";
            }
            if(reader.GetString(5) == "男")
                comboBox1.SelectedIndex = comboBox1.Items.IndexOf("男");
            }else
            {
                comboBox1.SelectedIndex = comboBox1.Items.IndexOf("女");
            }
            try
            {
                richTextBox1.Text = reader.GetString(7);
            }catch(Exception ex)
                richTextBox1.Text = "";
            }
        }
        private void button1_Click(object sender, EventArgs e)
```

```
string user_name = sign_in.sign_name;
            string user_pass = sign_in.sign_password;
            string query_text_update_user =
            "update user_info set name = '" + textBox2.Text + "' , mail = '" +
textBox3.Text + "' , address = '" + textBox4.Text + "' , occupy = '" +
textBox5.Text + "' , sex = '" + comboBox1.SelectedItem.ToString() + "' ,
self_info = '" + richTextBox1.Text + "' where username = '" + user_name + "'";
           NpgsqlConnection conn = new NpgsqlConnection(sign_in.connstr);
           NpgsqlCommand cmd = new NpgsqlCommand(query_text_update_user, conn);
           conn.Open();
           cmd.ExecuteNonQuery();
           MessageBox.Show("修改成功", "恭喜", MessageBoxButtons.OK);
           //用户信息更新
           user_info_Load(null,null);
       }
   }
```

```
public partial class book_manage : Form
        public book_manage()
           InitializeComponent();
        }
        private void label2_Click(object sender, EventArgs e)
        }
        private void book_manage_Load(object sender, EventArgs e)
            string user_name = sign_in.sign_name;
            string user_pass = sign_in.sign_password;
            string query_text_find_books =
            "select * from book_info";
            NpgsqlConnection conn = new NpgsqlConnection(sign_in.connstr);
            DataSet dataSet = new DataSet();
            NpgsqlDataAdapter adapter = new
NpgsqlDataAdapter(query_text_find_books, conn);
            adapter.Fill(dataSet, "图书");
            dataGridView1.DataSource = dataSet.Tables["图书"];
            dataGridView1.Columns[0].HeaderText = "序号";
            dataGridView1.Columns[1].HeaderText = "书名";
            dataGridView1.Columns[2].HeaderText = "作者";
            dataGridView1.Columns[3].HeaderText = "出版社";
            dataGridView1.Columns[4].HeaderText = "简介";
            conn.Close();
        }
        private void dataGridView1_CellMouseUp(object sender,
DataGridViewCellMouseEventArgs e)
```

```
if (e.Button == MouseButtons.Right)
               if (e.RowIndex >= 0)
                    dataGridView1.ClearSelection();
                    dataGridView1.Rows[e.RowIndex].Selected = true;
                    dataGridView1.CurrentCell =
dataGridView1.Rows[e.RowIndex].Cells[e.ColumnIndex];
                    contextMenuStrip1.Show(MousePosition.X, MousePosition.Y);
               }
            }
        }
        private void 删除ToolStripMenuItem_Click(object sender, EventArgs e)
            //删除选定的图书
            string user_name = sign_in.sign_name;
            string user_pass = sign_in.sign_password;
            string query_text_delete_book =
            "delete from book_info where book_id = " +
int.Parse(dataGridView1.CurrentRow.Cells[0].Value.ToString());
            if(MessageBox.Show("您确定要删除该书吗?","请确
认",MessageBoxButtons.YesNo) == DialogResult.Yes)
               NpgsqlConnection conn = new NpgsqlConnection(sign_in.connstr);
               NpgsqlCommand cmd = new NpgsqlCommand(query_text_delete_book,
conn);
               conn.Open();
               cmd.ExecuteNonQuery();
               conn.Close();
               MessageBox.Show("删除成功", "恭喜", MessageBoxButtons.OK);
               book_manage_Load(null, null);
            }
            else
            {
               return;
            }
        }
        private void button1_Click(object sender, EventArgs e)
            string user_name = sign_in.sign_name;
            string user_pass = sign_in.sign_password;
            string query_text_find_max =
            "select max(book_id) from book_info ";
            //1. 先在系统中找到编号最大的书, 然后+1
            NpgsqlConnection conn = new NpgsqlConnection(sign_in.connstr);
            NpgsqlCommand cmd = new NpgsqlCommand(query_text_find_max, conn);
            conn.Open();
            NpgsqlDataReader reader = cmd.ExecuteReader();
            reader.Read();
            long id = reader.GetInt64(0);
```

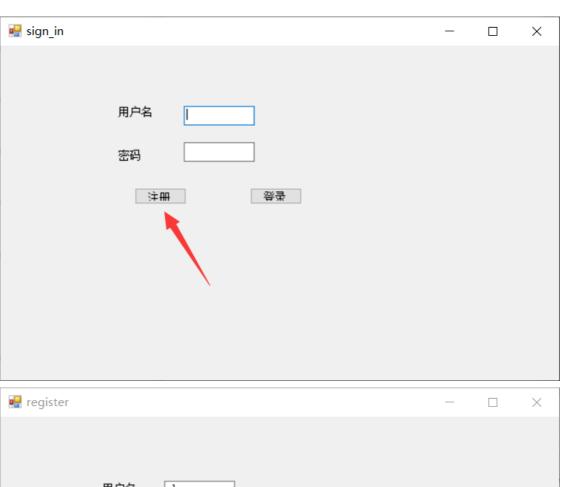
```
id++;
           reader.Close();
           //2.然后插入图书信息表
           try
           {
               string query_text_insert_info =
               "insert into book_info values("+id+",'"+textBox1.Text+"','"+
textBox2.Text + "','"+ textBox3.Text + "','"+richTextBox1.Text+"')";
               cmd.CommandText = query_text_insert_info;
               cmd.ExecuteNonQuery();
               //3.然后插入图书数量表
               string query_text_insert_num =
               "insert into book_num values("+id+","+textBox4.Text+")";
               cmd.CommandText = query_text_insert_num;
               cmd.ExecuteNonQuery();
               conn.Close();
           }catch(Exception ex)
               MessageBox.Show("您的输入有误,请重试","错
误",MessageBoxButtons.OK,MessageBoxIcon.Error);
               conn.Close();
               return;
           }
           MessageBox.Show("添加成功", "恭喜", MessageBoxButtons.OK);
           book_manage_Load(null, null);
       }
   }
```

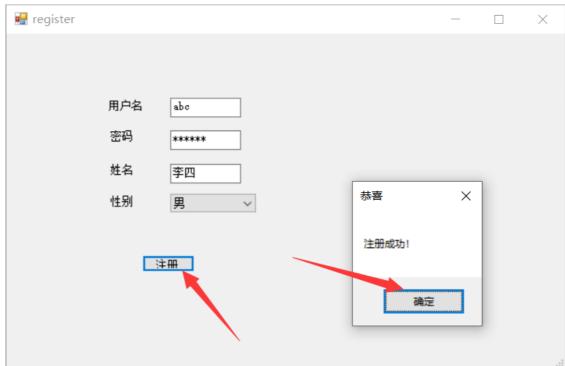
具体请见源代码文件

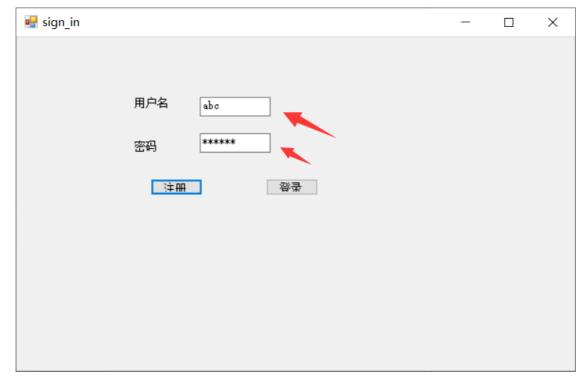
使用截图

用户部分

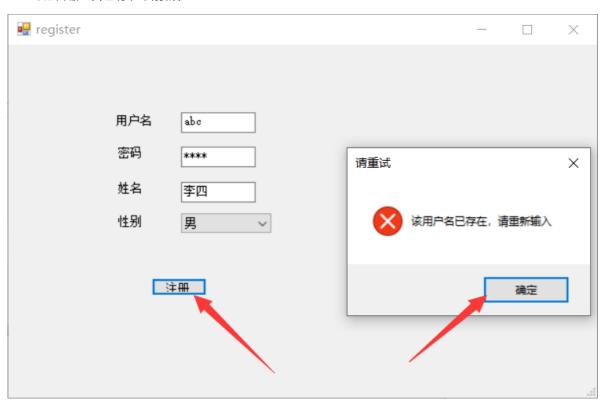
• 用户首先需要注册:







• 如果用户名已存在会报错



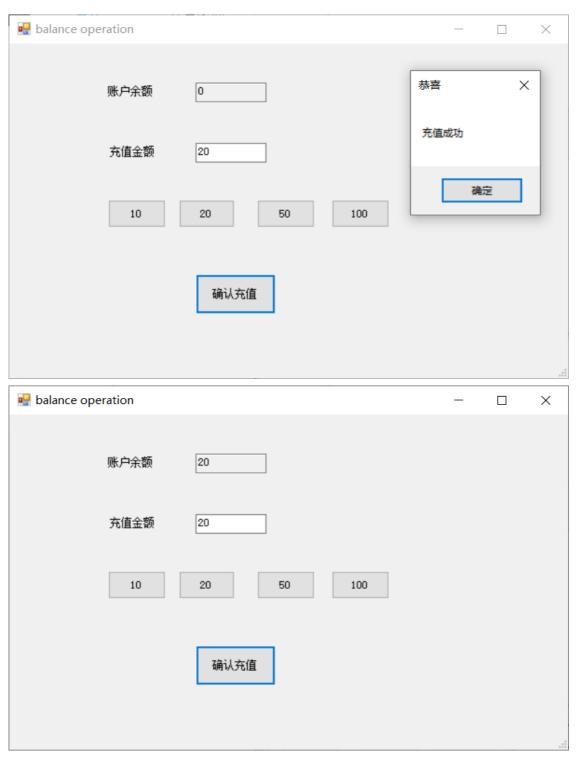
• 用户登录后的界面如下:



• 缴费界面如下:



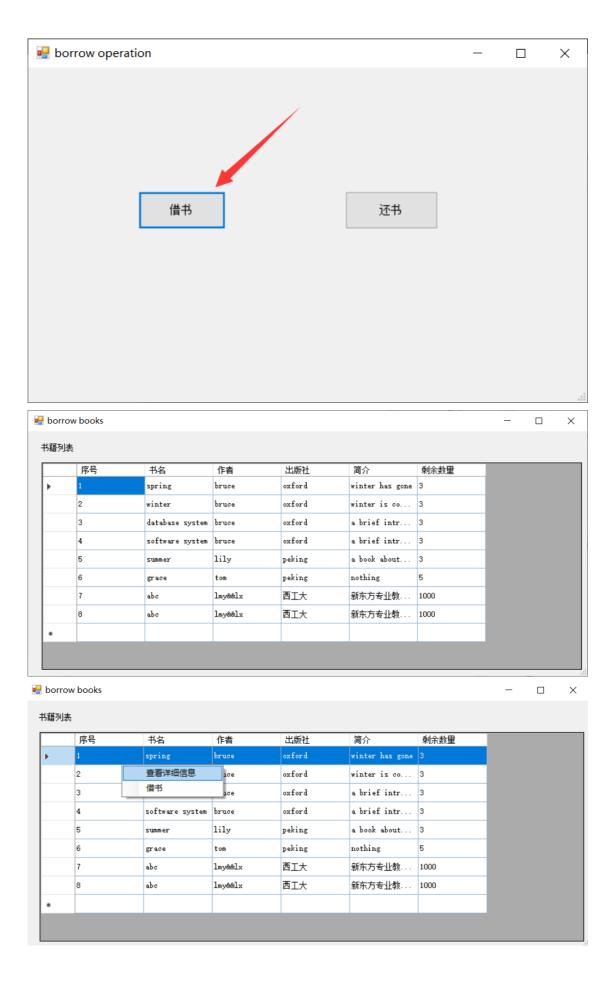
• 可以点按钮或者直接自己输入



• 个人信息修改部分



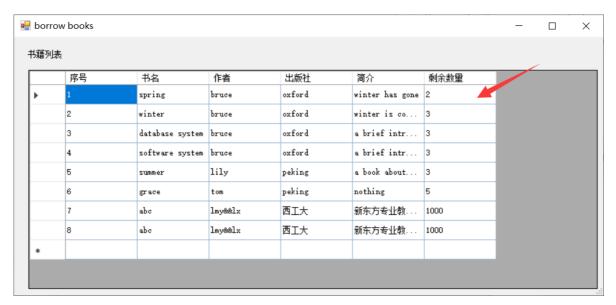
• 借书还书的操作部分

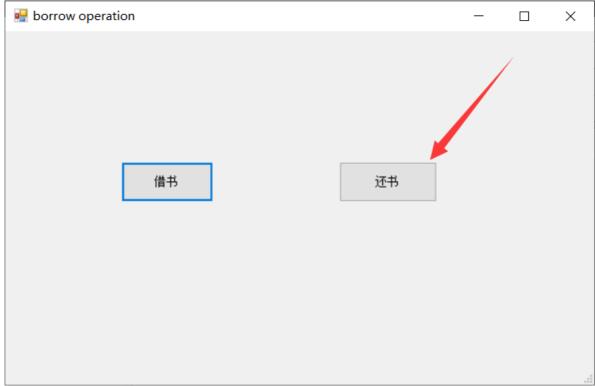


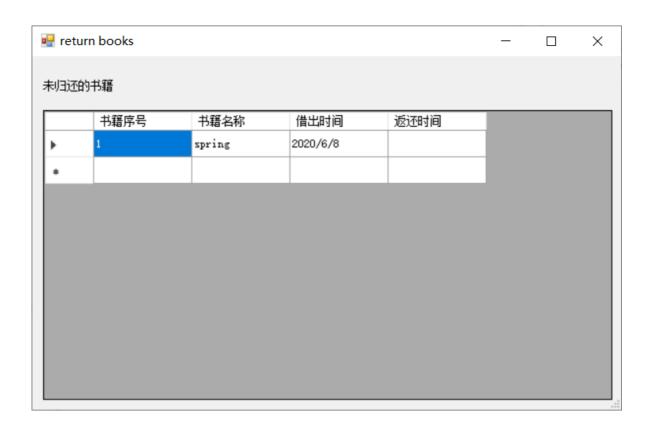




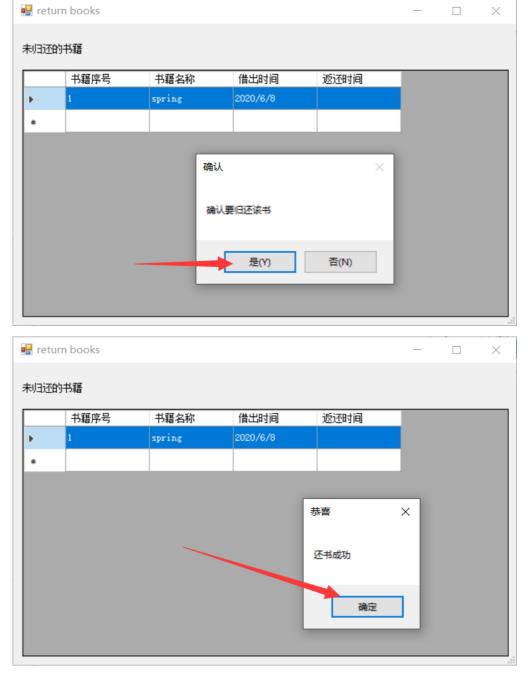




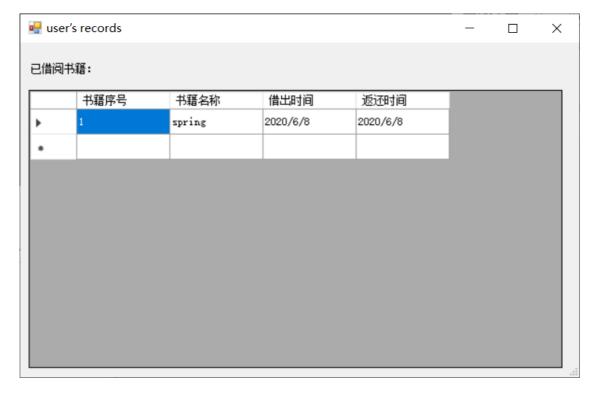








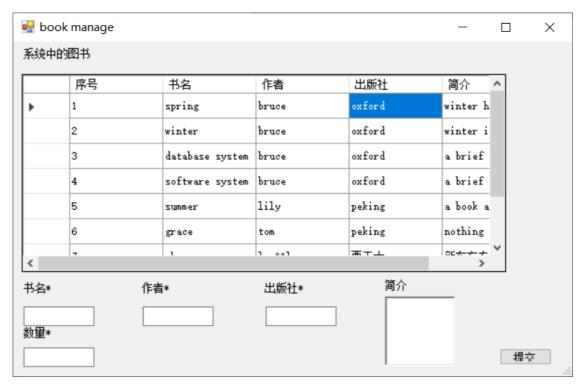
• 查看所有的借书记录:



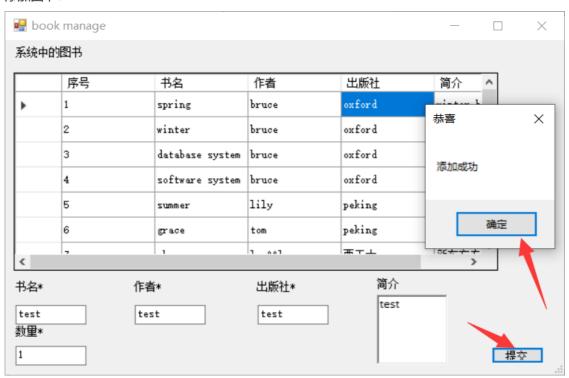
管理员部分



• 图书管理:



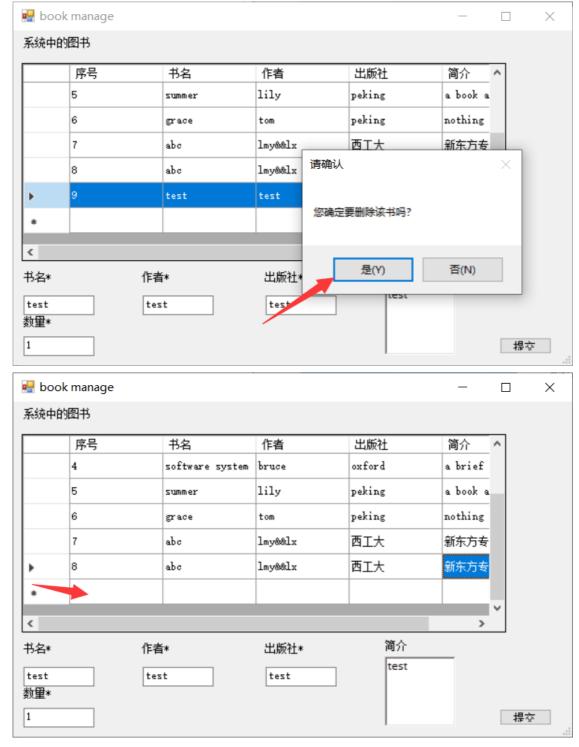
• 添加图书:



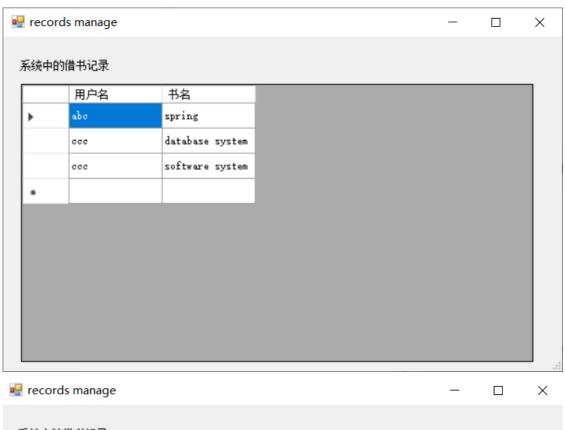


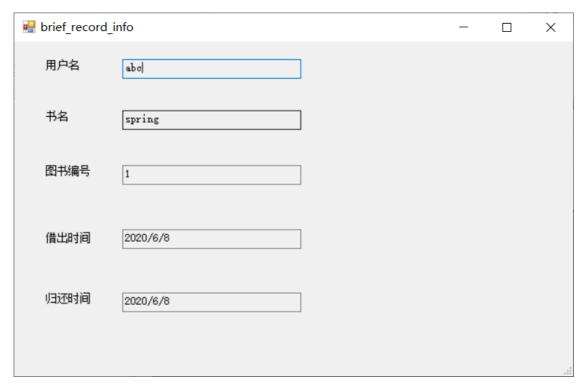
• 删除图书操作





• 查看系统内的所有借书记录

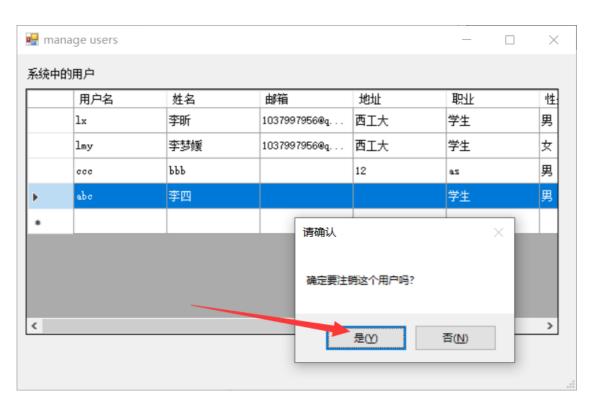




• 用户管理部分









配置文件说明

