Book Store Management System

Session: 2021 – 2024

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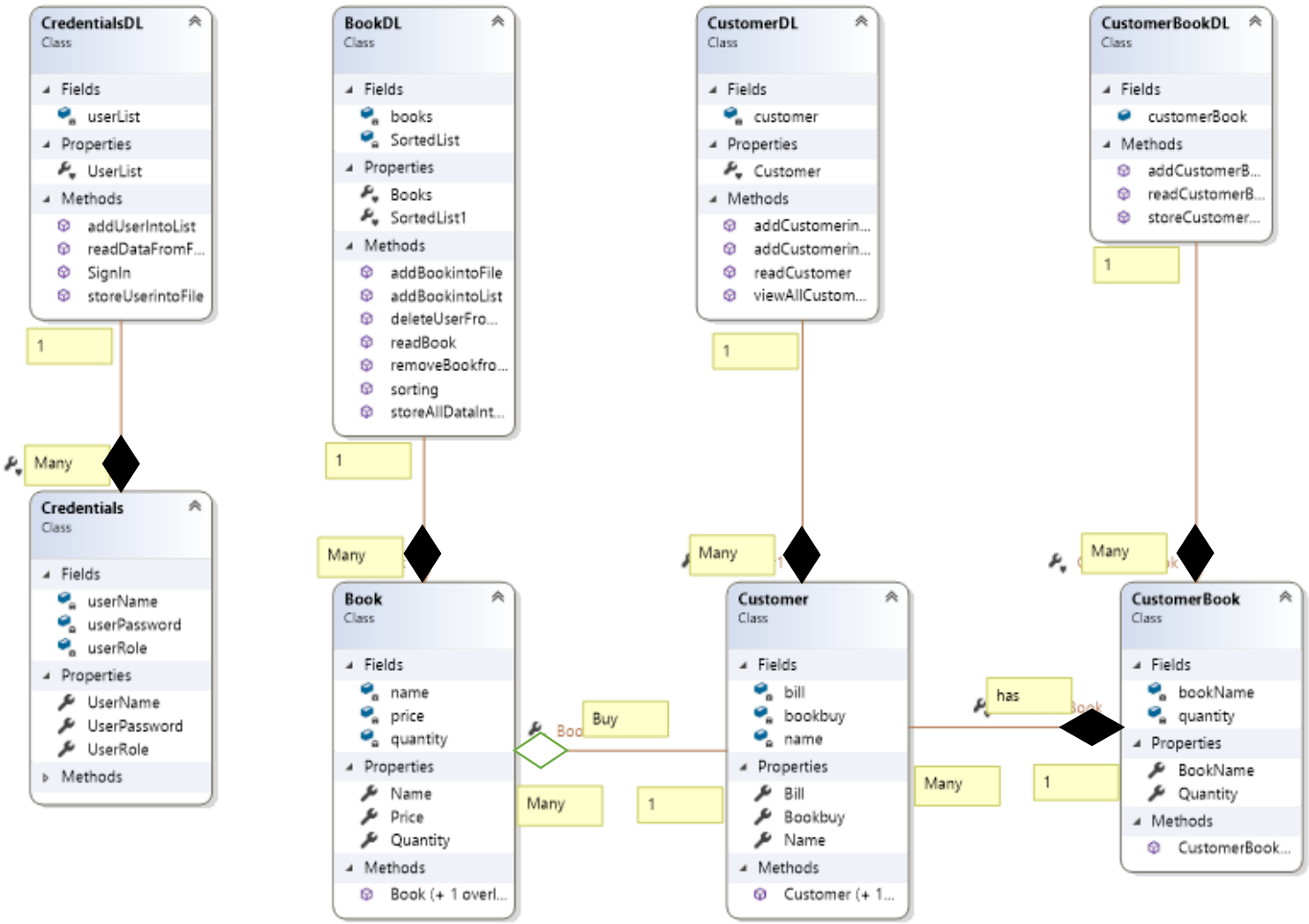
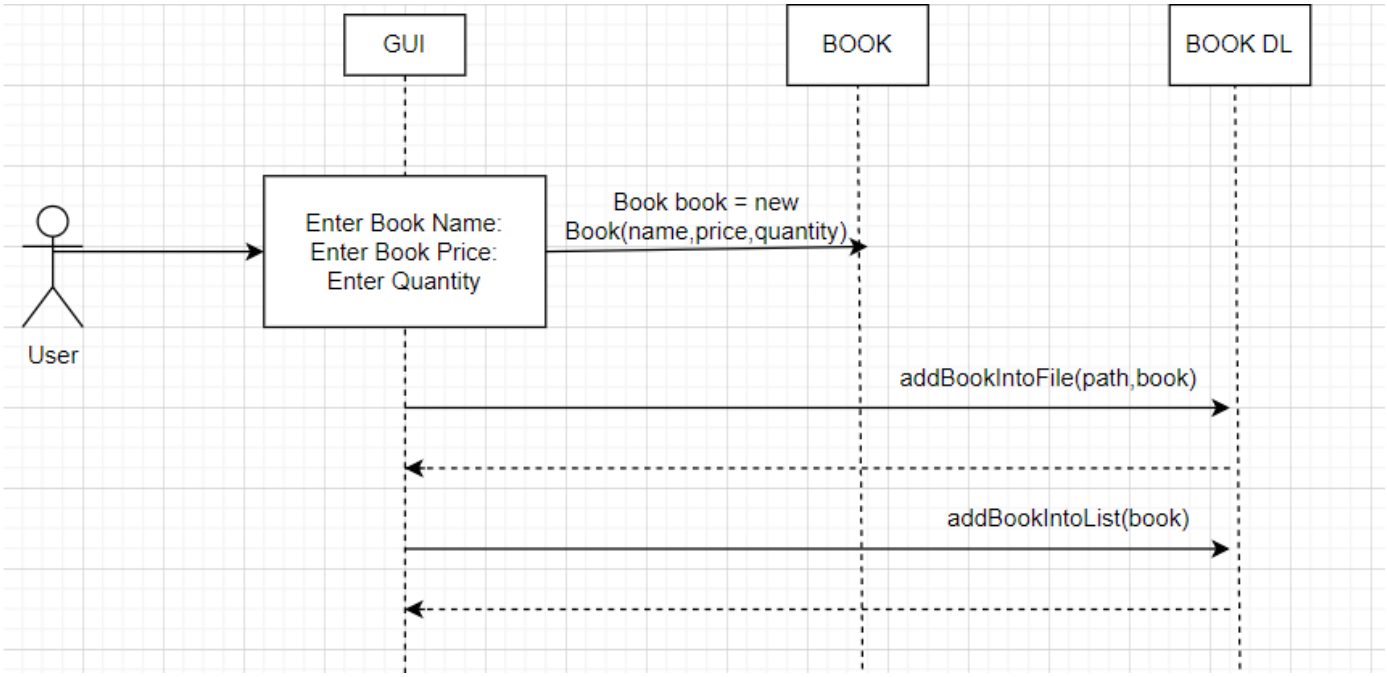
Class Diagram

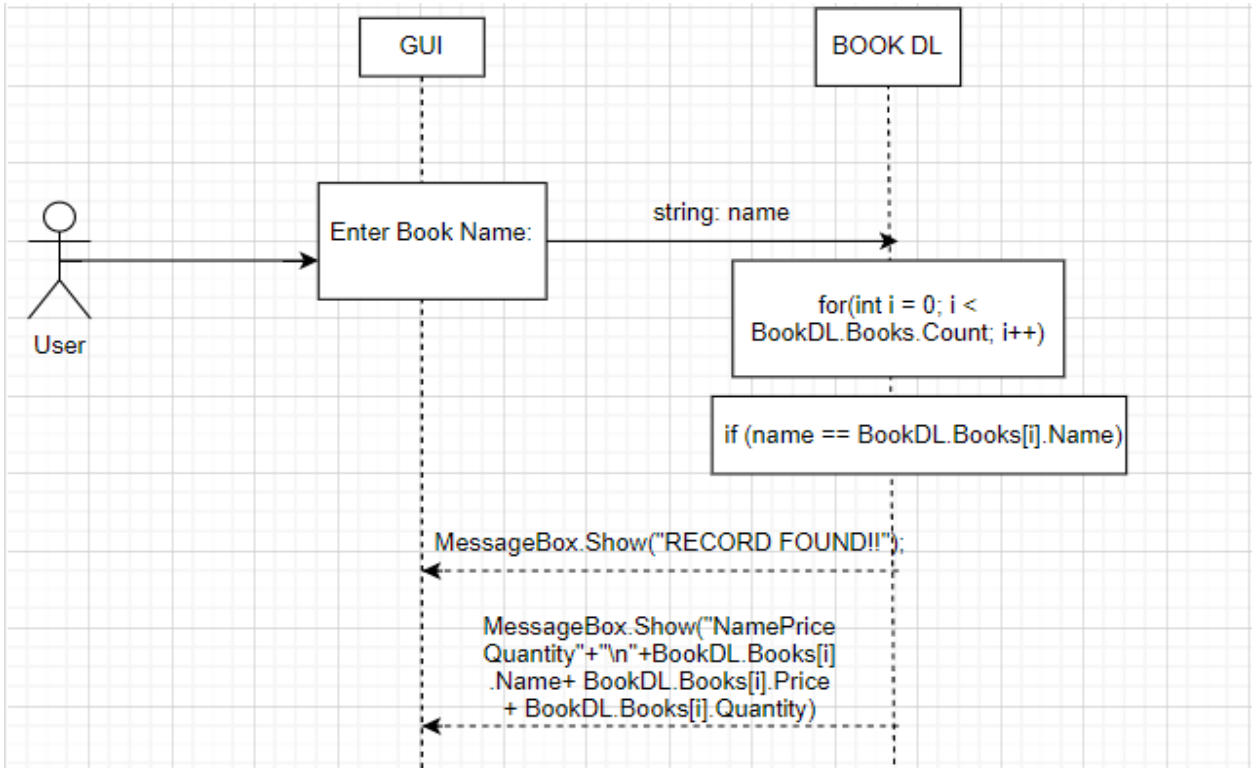


Sequence Diagram

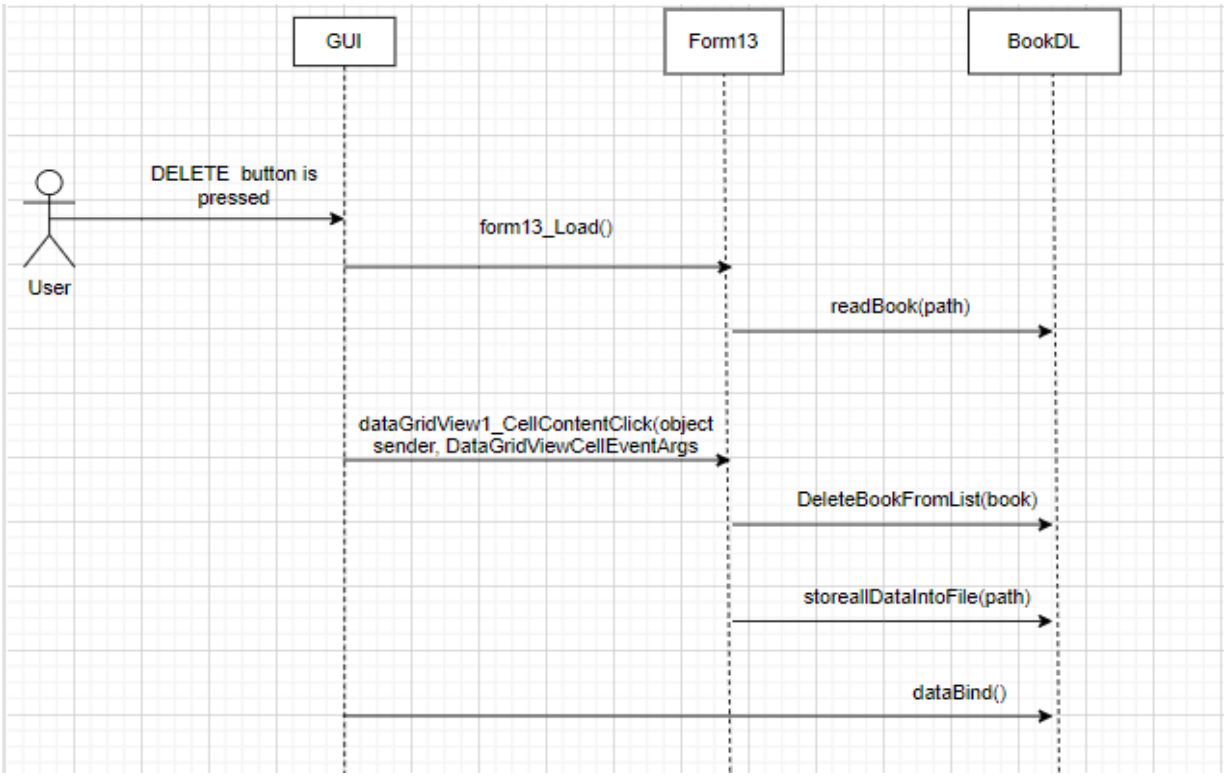
- ## Add Book



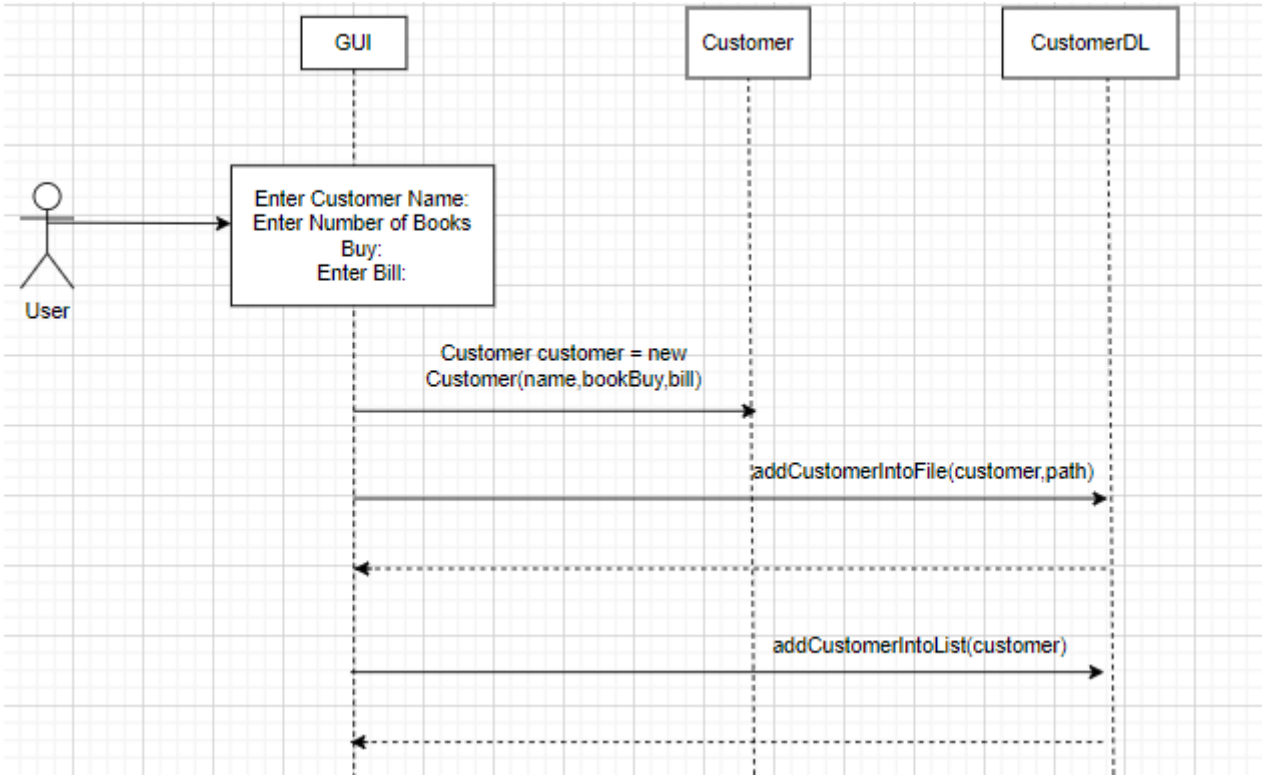
- ## Search Book



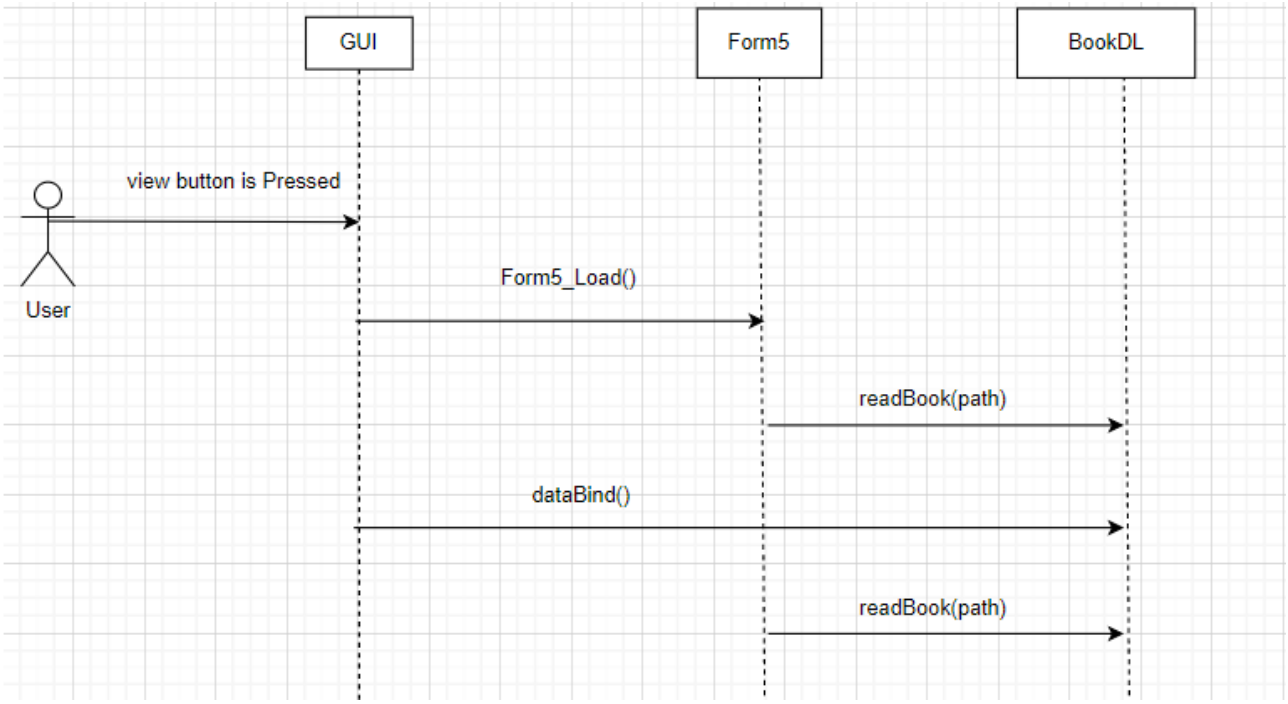
- **Delete Book**



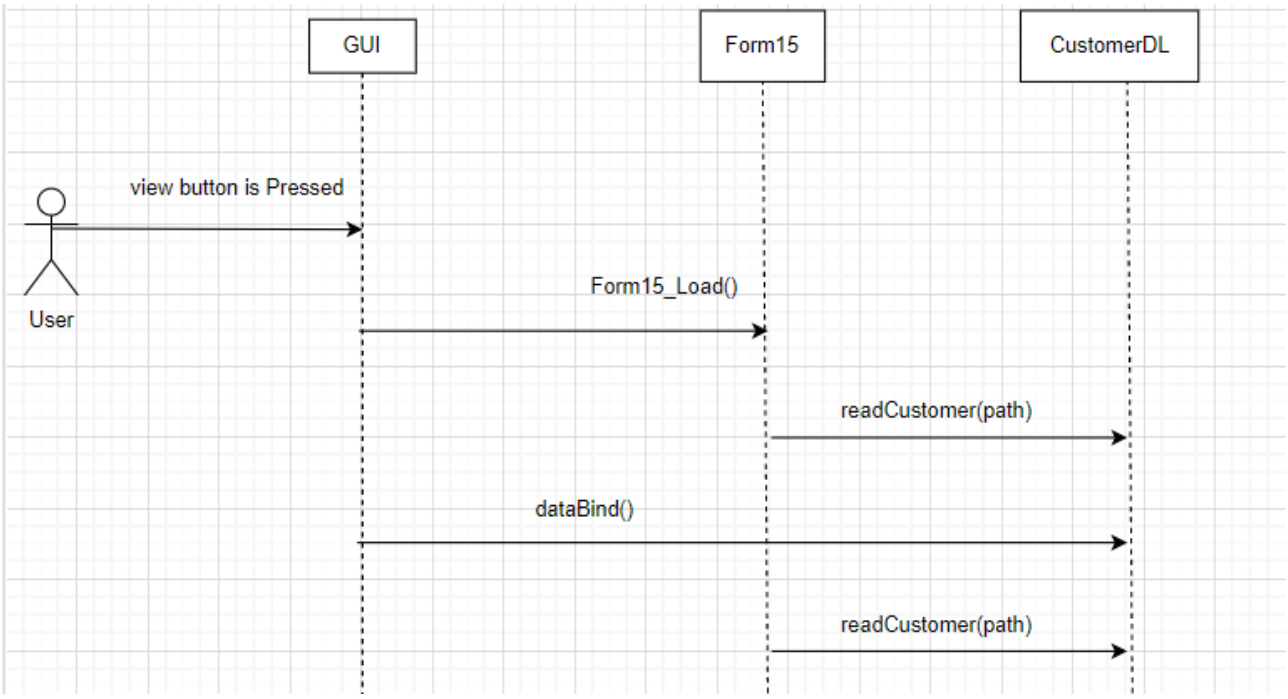
- **Add Customer**



- **View Book**

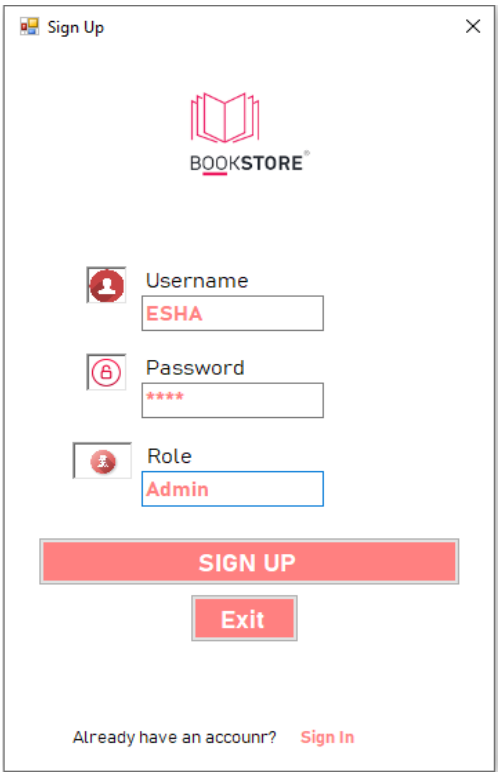


- **View Customer**

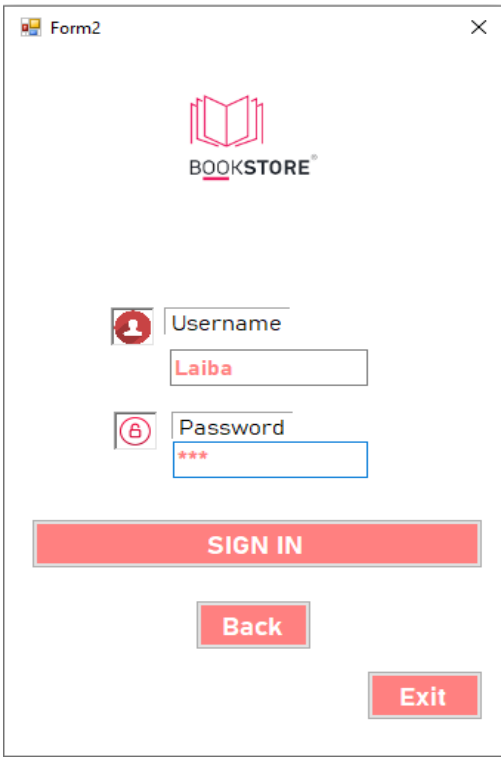


Wireframes

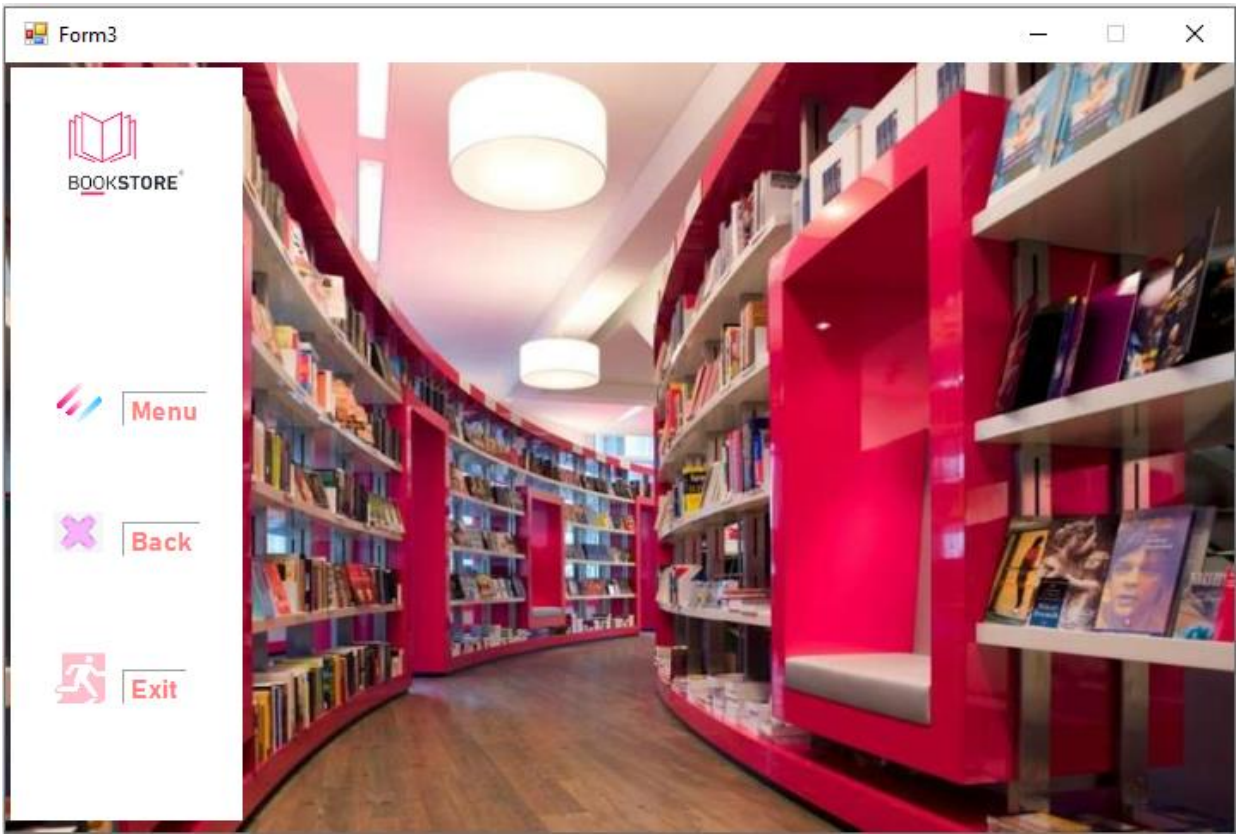
>> Sign Up



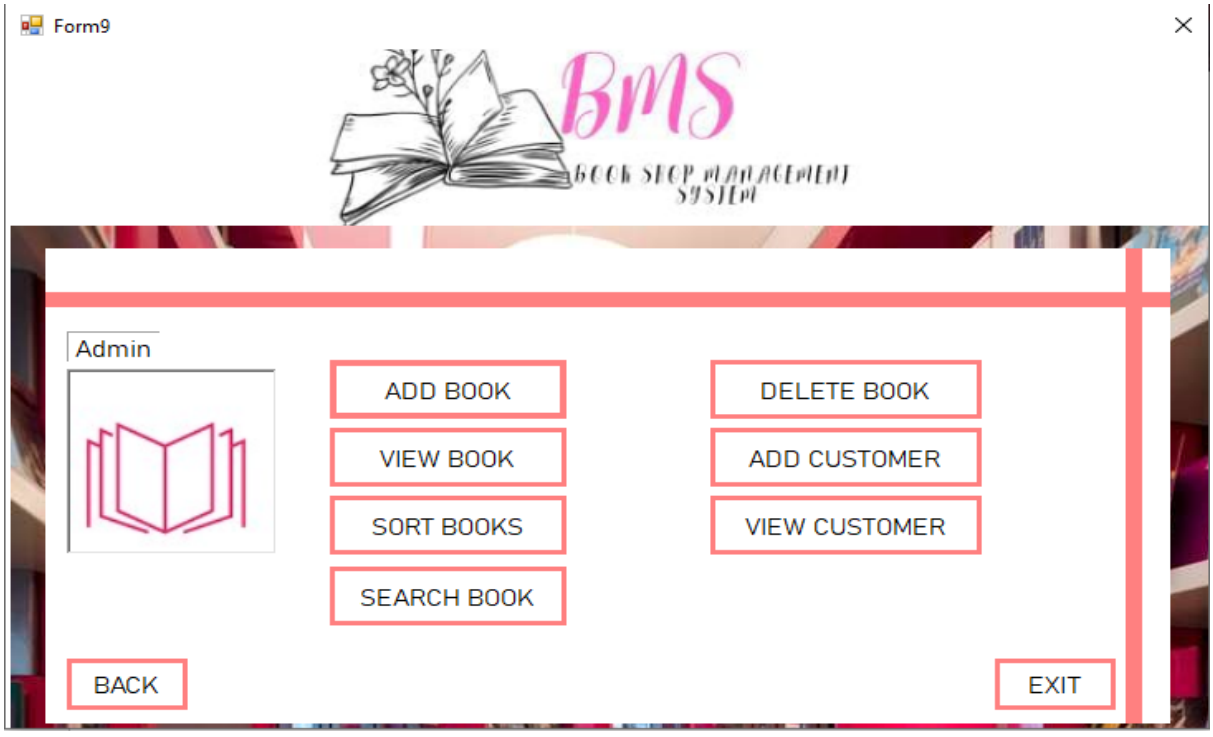
>> Sign In



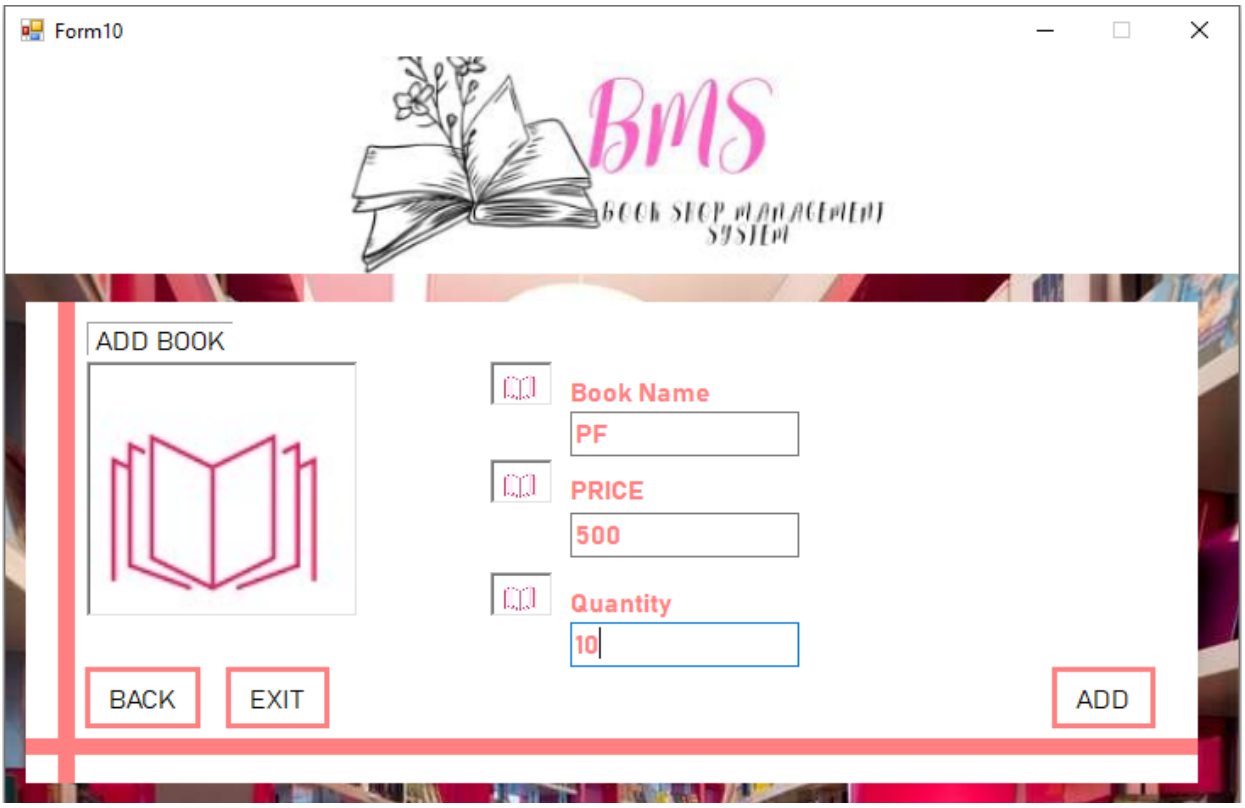
>>Admin Menu



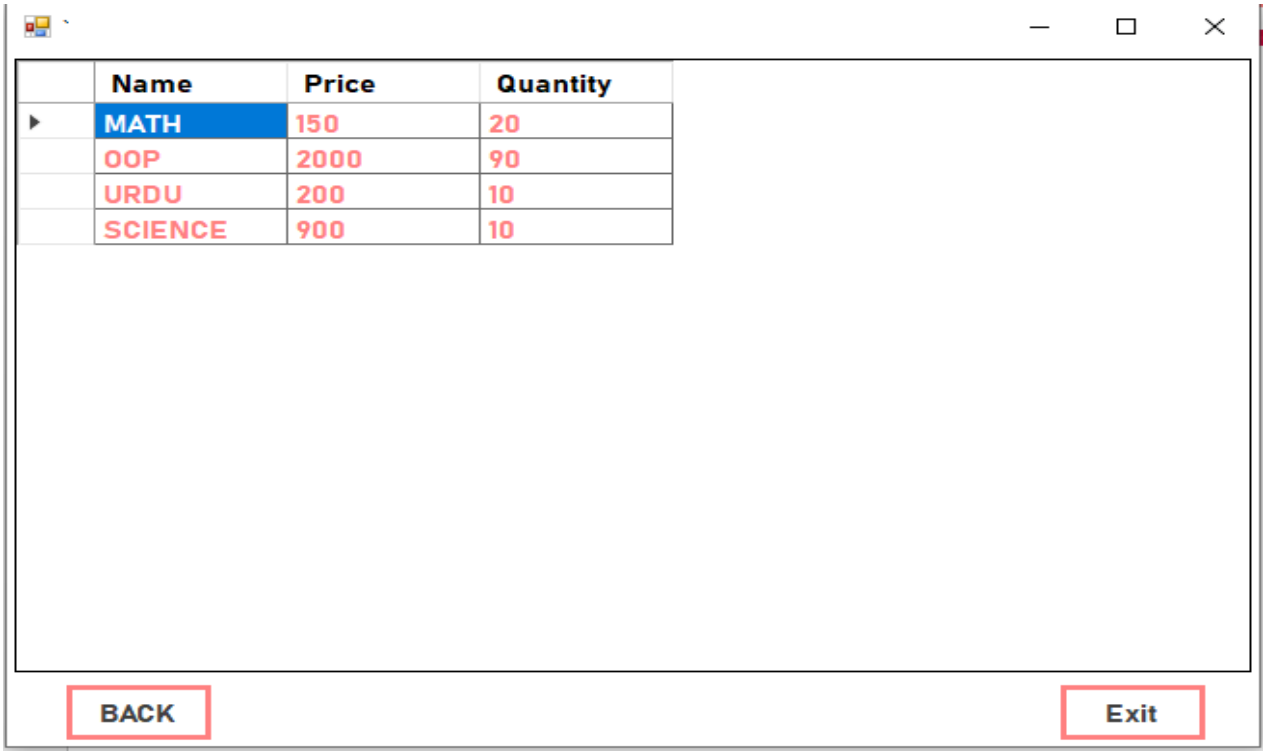
>> Menu



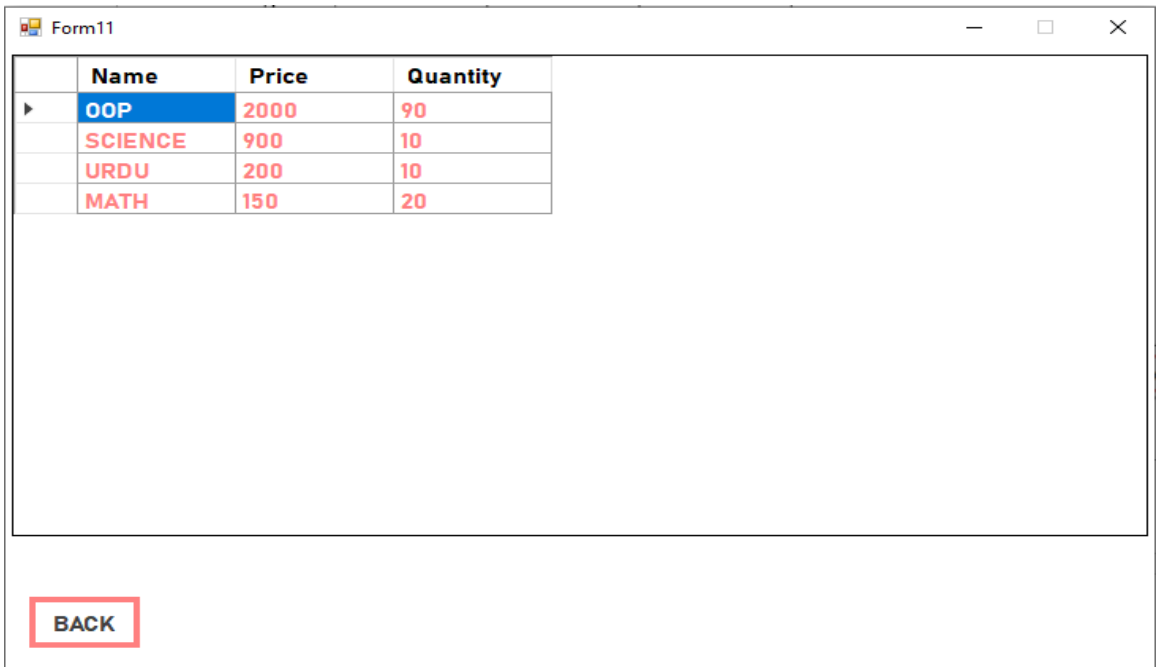
>> Add Book



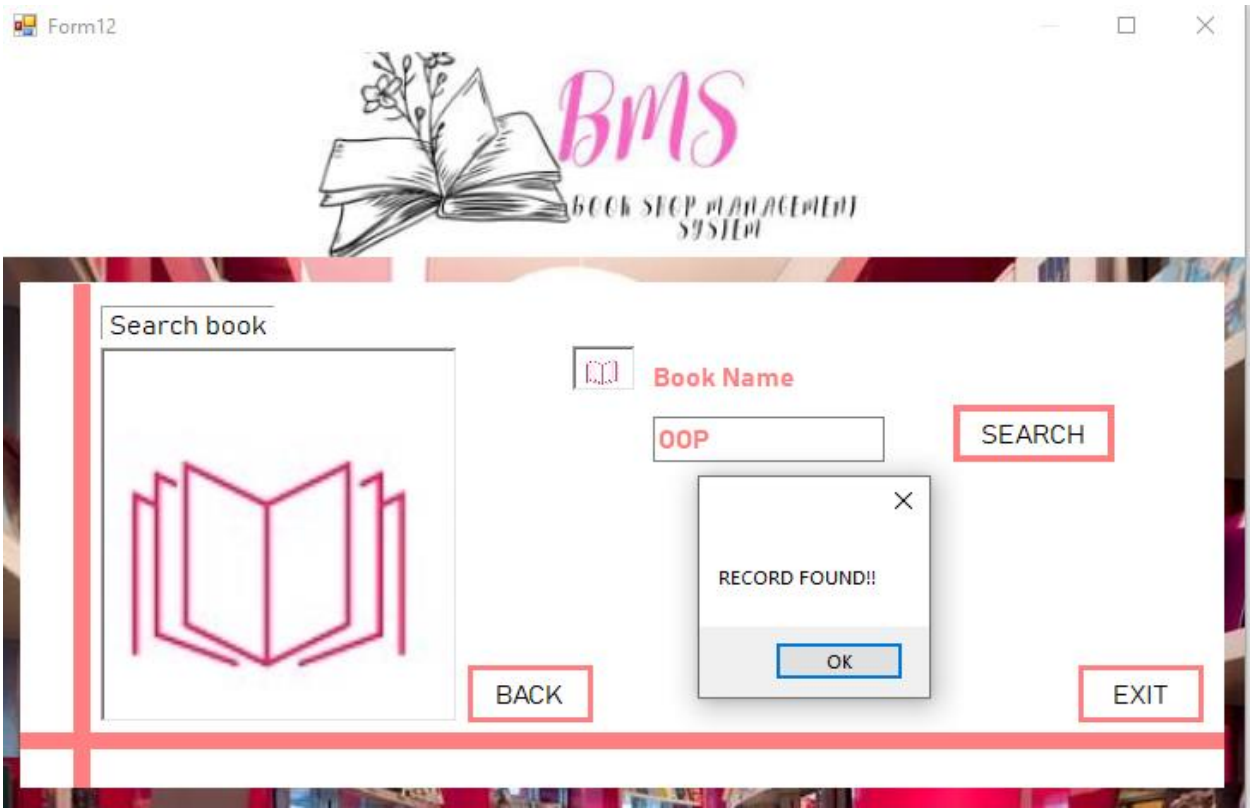
>> View Book



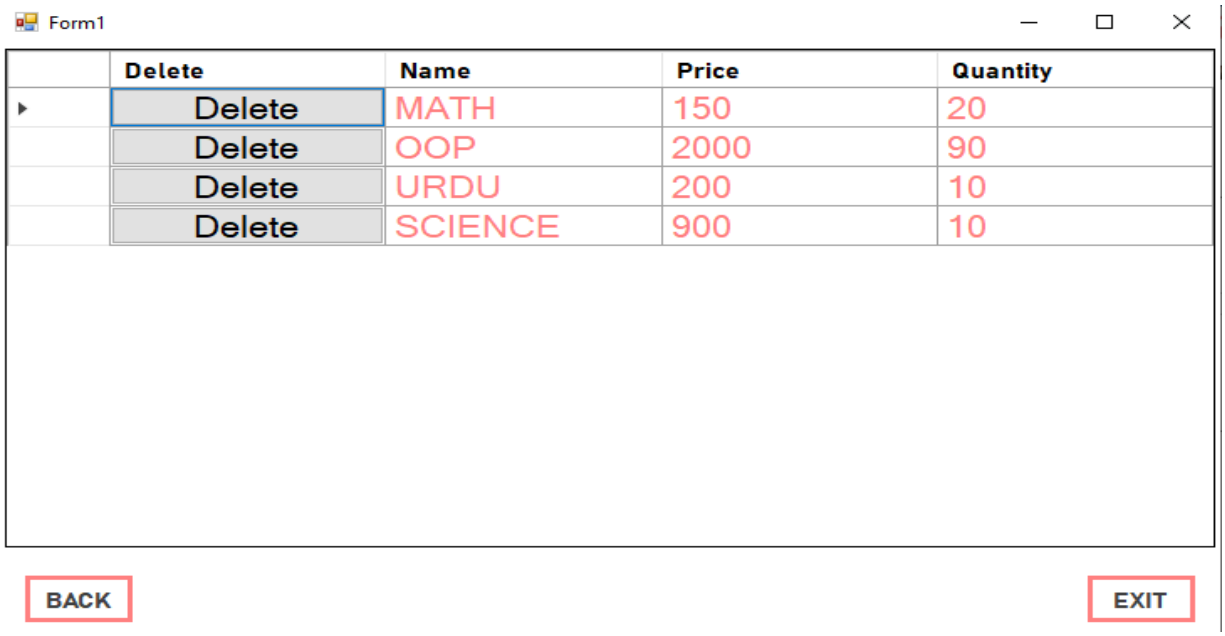
>> Sort Books



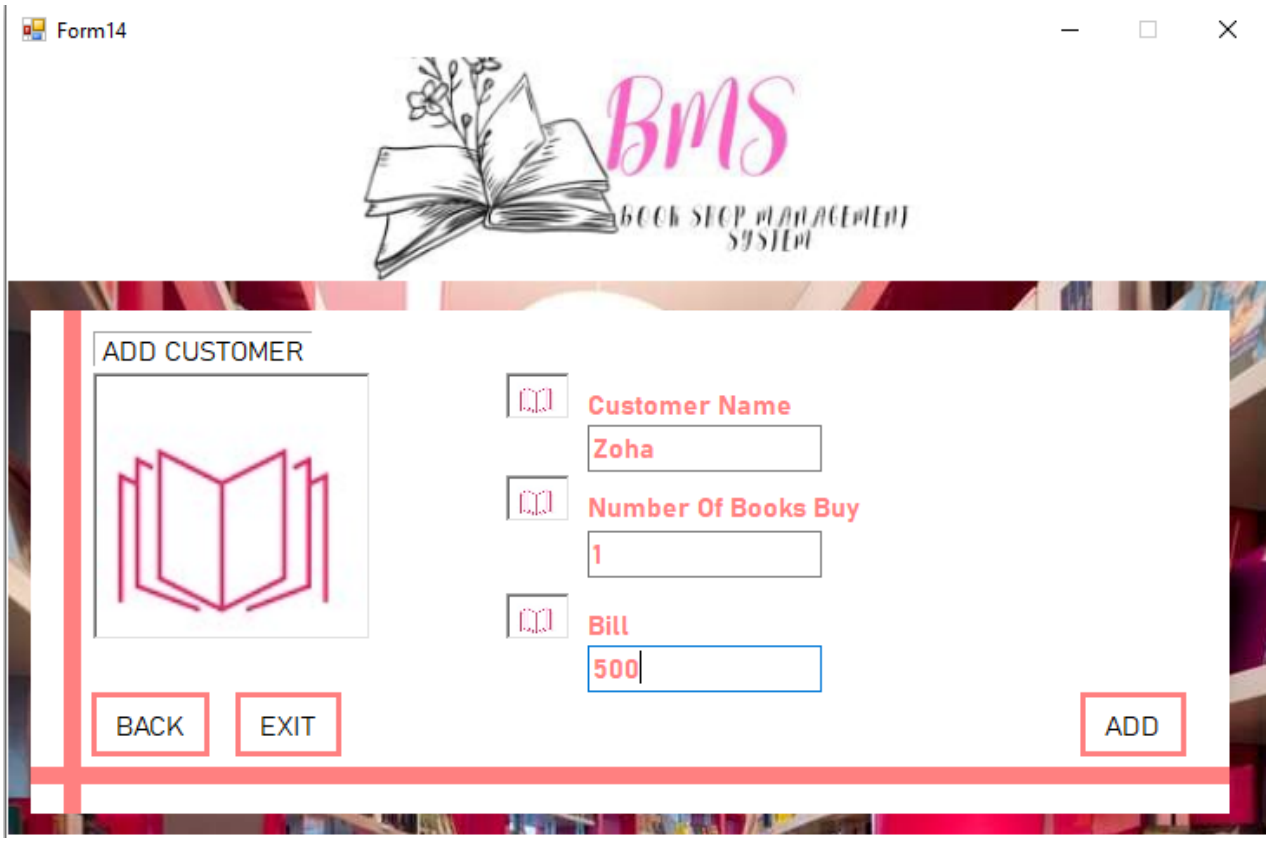
>> Search Book



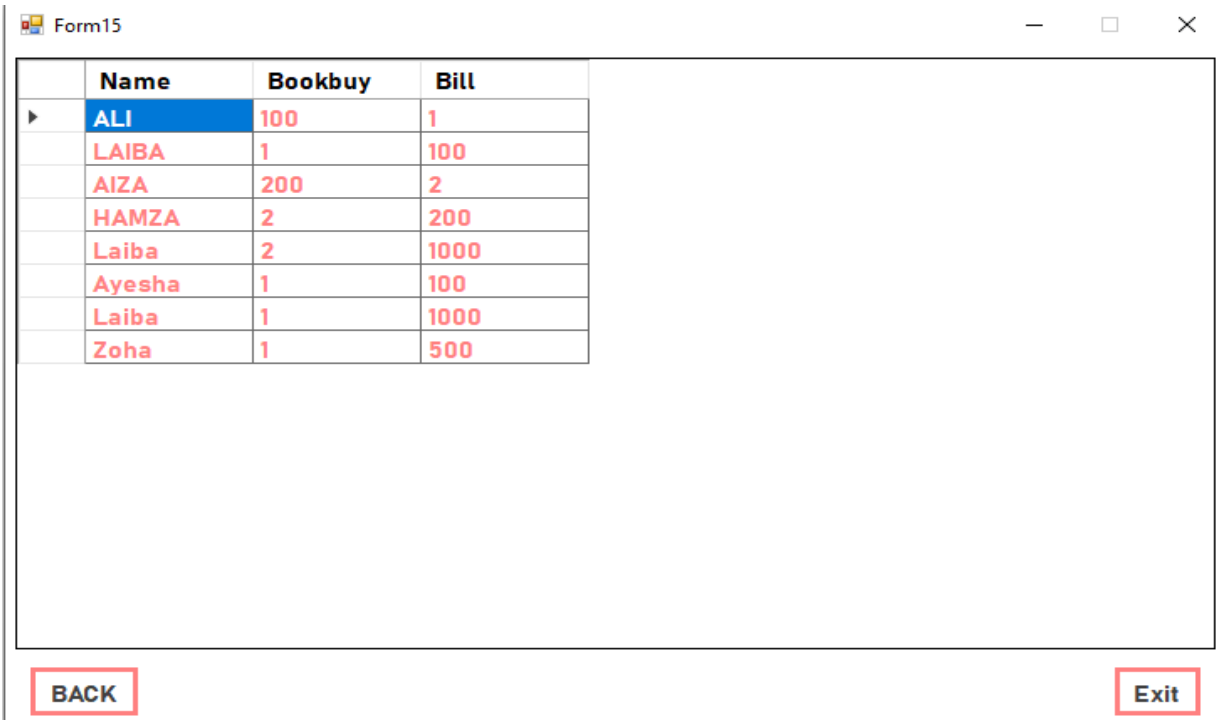
>> Delete Book



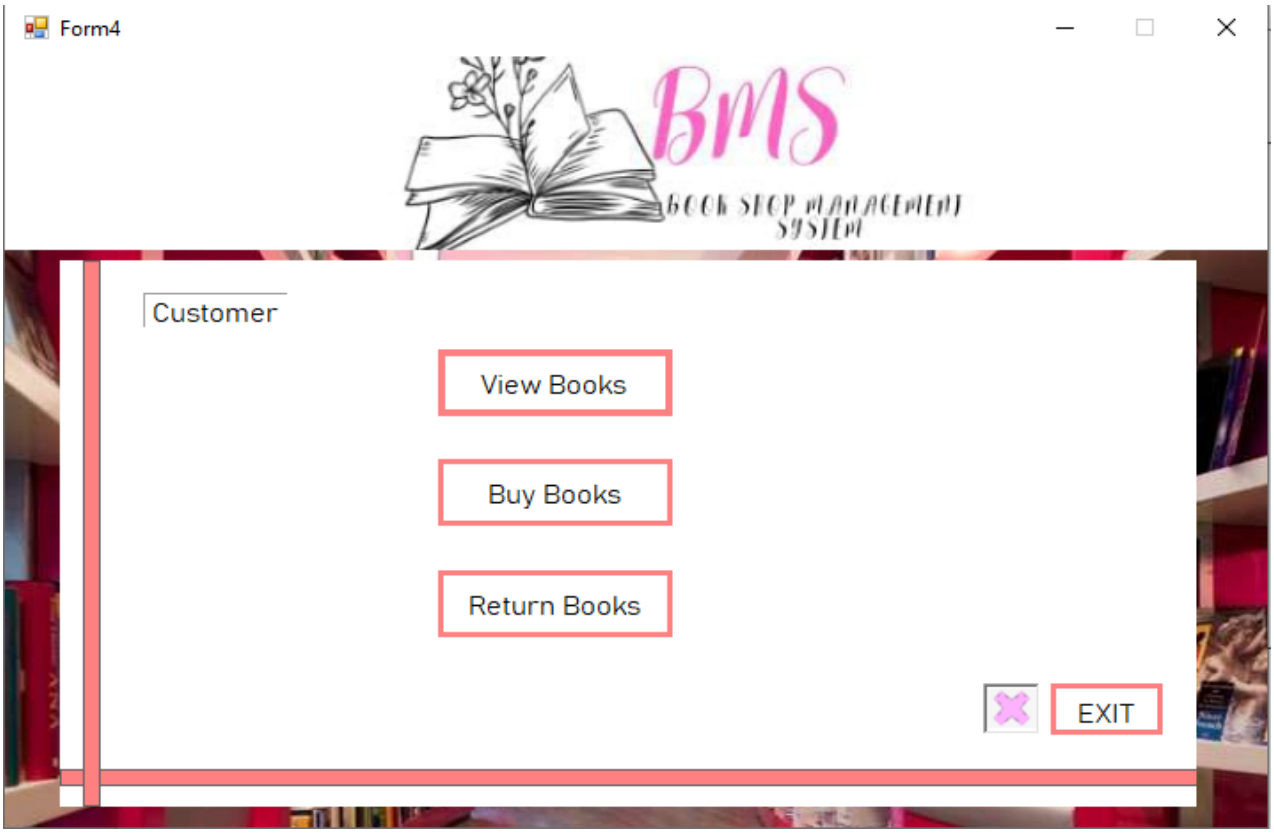
>> Add Customer



>> View customer

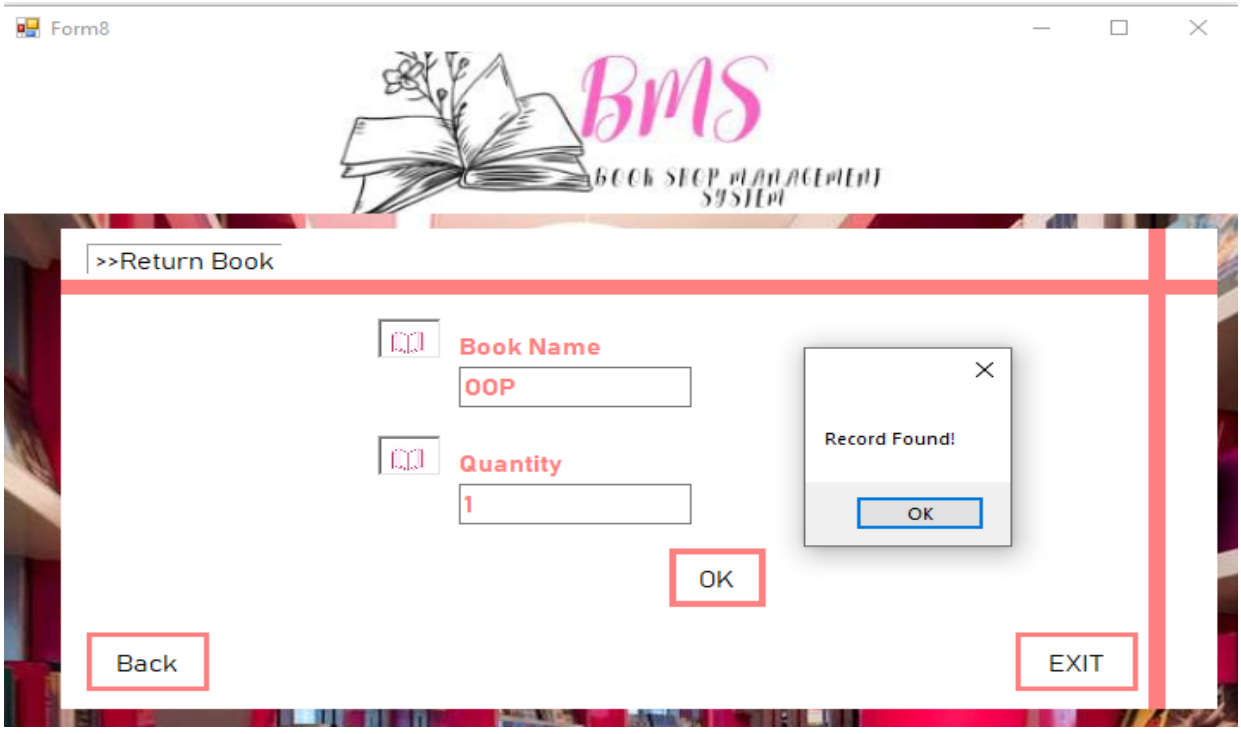


>> Customer Menu



>> Buy Book

>> Return Book



>> Exit

Code for Classes

Form1 Code

```
public partial class Form1 : Form
  {
      public Form1()
      {
          InitializeComponent();
          string path = "credentials.txt";
          CredentialsDL.readDataFromFile(path);
      }
      private void button2_Click(object sender, EventArgs e)
      {
          Application.Exit();
      }

      private void button1_Click(object sender, EventArgs e)
      {
          string path = "credentials.txt";
          string name = textBox1.Text;
          string password = textBox2.Text;
          string role = textBox3.Text;
          Credentials user = new Credentials(name, password, role);
          CredentialsDL.addUserIntoList(user);
          CredentialsDL.storeUserintoFile(user, path);
          MessageBox.Show("User Added!");
          textBox1.Text = "";
          textBox2.Text = "";
          textBox3.Text = "";
```

```
        }

        private void label5_Click(object sender, EventArgs e)
        {
            this.Hide();
            Form2 f2 = new Form2();
            f2.Show();
        }
    }
```

Form 2 Code

```
public partial class Form2 : Form
    {
        public Form2()
        {
            InitializeComponent();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            this.Hide();
            Form1 f1 = new Form1();
            f1.Show();
        }

        private void clearTextBox()
        {
            textBox1.Text = "";
            textBox2.Text = "";
        }

        private void button1_Click(object sender, EventArgs e)
        {
            string userName = textBox1.Text;
            string password = textBox2.Text;
            Credentials user = new Credentials(userName, password);
            Credentials validUser = CredentialsDL.SignIn(user);
            if (validUser != null)
            {
                string role = validUser.role();
                if (role == "Admin")
                {
                    Form3 f3 = new Form3();
                    f3.Show();
                    this.Hide();
                }
                else if(role == "Customer")
                {
                    Form4 f4 = new Form4();
                    f4.Show();
                    this.Hide();
                }
                else if(role == "Seller")
                {

                }
            }
            else
```

```
            {
                MessageBox.Show("InValid");
            }
            clearTextBox();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }
    }
```

Form 3 Code

```
public partial class Form3 : Form
    {
        public Form3()
        {
            InitializeComponent();
        }

        private void label2_Click(object sender, EventArgs e)
        {
            Form2 f2 = new Form2();
            f2.Show();
            this.Hide();
        }

        private void label3_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }

        private void label1_Click(object sender, EventArgs e)
        {
            Form9 f9 = new Form9();
            f9.Show();
            this.Hide();
        }
    }
```

Form 4 Code

```
public Form4()
        {
            InitializeComponent();
        }

        private void pictureBox2_Click(object sender, EventArgs e)
        {

        }

        private void panel2_Paint(object sender, PaintEventArgs e)
        {

        }        private void button1_Click(object sender, EventArgs e)
        {
            Form5 f5 = new Form5();
```

```
            f5.Show();
            this.Hide();
        }
        private void button2_Click(object sender, EventArgs e)
        {
            Form6 f6 = new Form6();
            f6.Show();
            this.Hide();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            Form8 f8 = new Form8();
            f8.Show();
            this.Hide();
        }
    }
```

Form 5 Code

```
public partial class Form5 : Form
    {
        public Form5()
        {
            InitializeComponent();
        }

        private void Form5_Load(object sender, EventArgs e)
        {
            BookDL.Books.Clear();
            string path = "addbook.txt";
            BookDL.readBook(path);
            dataGridView1.DataSource = BookDL.Books;
        }

        public void dataBind()
        {
            dataGridView1.DataSource = null;
            dataGridView1.DataSource = BookDL.Books;
            dataGridView1.Refresh();
        }
        private void button1_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Form9 f9 = new Form9();
            f9.Show();
            this.Hide();
        }
    }
```

Form 6 Code

```
public partial class Form6 : Form
    {
        public Form6()
```

```
        {
            InitializeComponent();
        }
        private void clearTextBox()
        {
            textBox1.Text = "";
            textBox2.Text = "";
        }
        private void button1_Click(object sender, EventArgs e)
        {
            bool flag = false;
            string path = "customerBook.txt";
            string name = textBox1.Text;
            float Quantity = float.Parse(textBox2.Text);
            CustomerBook cBook = new CustomerBook(name, Quantity);
            for (int i = 0; i < BookDL.Books.Count; i++)
            {
                if (name == BookDL.Books[i].Name)
                {
                    CustomerBookDL.addCustomerBookIntoList(cBook);
                    CustomerBookDL.storeCustomerBookintoFile(cBook, path);
                    Form7 f7 = new Form7();
                    f7.Show();
                    this.Hide();
                    flag = true;
                    break;
                }
            }
            if(flag == false)
            {
                MessageBox.Show("Not Available!");
            }
            clearTextBox();
        }

        private void Form6_Load(object sender, EventArgs e)
        {
            string path = "customerBook.txt";
            string pathBook = "addbook.txt";
            CustomerBookDL.readCustomerBook(path);
            BookDL.readBook(pathBook);
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Form4 f4 = new Form4();
            f4.Show();
            this.Hide();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }
    }
```

Form 7 Code

```
public partial class Form7 : Form
```

```
    {
        public Form7()
        {
            InitializeComponent();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }
    }
```

Form 8 Code

```
public partial class Form8 : Form
{
    public Form8()
    {
        InitializeComponent();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        this.Hide();
        Form4 f4 = new Form4();
        f4.Show();
    }

    private void button3_Click(object sender, EventArgs e)
    {
        Application.Exit();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        bool flag = false;
        string path = "customerBook.txt";
        string name = textBox1.Text;
        for (int i = 0; i < CustomerBookDL.customerBook.Count; i++)
        {
            textBox1.Text = CustomerBookDL.customerBook[i].BookName;
            if (name == CustomerBookDL.customerBook[i].BookName)
            {
                MessageBox.Show("Record Found!");
                Form7 f7 = new Form7();
                f7.Show();
                this.Hide();
                flag = true;
                break;
            }
        }
        if (flag == false)
        {
            MessageBox.Show("Record Not Found!");
        }
        clearTextBox();
    }

    private void clearTextBox()
    {
```

```
            textBox1.Text = "";
            textBox2.Text = "";
        }

        private void Form8_Load(object sender, EventArgs e)
        {

        }

        private void Form8_Load_1(object sender, EventArgs e)
        {
            string path = "customerBook.txt";
            CustomerBookDL.readCustomerBook(path);
        }
    }
```

Form 9 Code

```
public partial class Form9 : Form
{
    public Form9()
    {
        InitializeComponent();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        Form5 f5 = new Form5();
        this.Hide();
        f5.Show();
    }

    private void button11_Click(object sender, EventArgs e)
    {
        Application.Exit();
    }

    private void button10_Click(object sender, EventArgs e)
    {
        Form3 f3 = new Form3();
        f3.Show();
        this.Hide();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        Form10 f10 = new Form10();
        this.Hide();
        f10.Show();
    }

    private void button4_Click(object sender, EventArgs e)
    {
        Form12 f12 = new Form12();
        f12.Show();
        this.Hide();
    }

    private void button5_Click(object sender, EventArgs e)
    {
```

```
            Form13 f13 = new Form13();
            f13.Show();
            this.Hide();
        }

        private void button7_Click(object sender, EventArgs e)
        {
            Form14 f14 = new Form14();
            this.Hide();
            f14.Show();
        }

        private void button8_Click(object sender, EventArgs e)
        {
            Form15 f15 = new Form15();
            f15.Show();
            this.Hide();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            Form11 f11 = new Form11();
            f11.Show();
            this.Hide();
        }
    }
```

Form 10 Code

```
 public partial class Form10 : Form
{
    public Form10()
    {
        InitializeComponent();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        string name = textBox1.Text;
        float price = float.Parse(textBox2.Text);
        float quantity = float.Parse(textBox3.Text);
        string path = "addbook.txt";
        Book book = new Book(name, price, quantity);
        BookDL.addBookintoFile(book,path);
        BookDL.addBookintoList(book);
        MessageBox.Show("BOOK ADDED!");
    }

    private void button3_Click(object sender, EventArgs e)
    {
        Application.Exit();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        Form9 f9 = new Form9();
        f9.Show();
        this.Hide();
    }
}
```

Form 11 Code

```
public partial class Form11 : Form
    {
        public Form11()
        {
            InitializeComponent();
        }

        private void Form11_Load(object sender, EventArgs e)
        {
            BookDL.sorting();
            BookDL.Books.Clear();
            string path = "addbook.txt";
            BookDL.readBook(path);
            dataGridView1.DataSource = BookDL.SortedList1;
        }
        public void dataBind()
        {
            dataGridView1.DataSource = null;
            dataGridView1.DataSource = BookDL.SortedList1;
            dataGridView1.Refresh();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Form9 f9 = new Form9();
            f9.Show();
            this.Hide();
        }
    }
```

Form 12 Code

```
  public partial class Form12 : Form
    {
        public Form12()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }

        private void button11_Click(object sender, EventArgs e)
        {
            bool flag = false;
            string name = textBox1.Text;
            for (int i = 0; i < BookDL.Books.Count; i++)
            {
                if (name == BookDL.Books[i].Name)
                {
                    MessageBox.Show("RECORD FOUND!!");
                    MessageBox.Show("Name\t\tPrice\t\tQuantity"+"\n"+BookDL.Books[i].Name + "\t\t" +
BookDL.Books[i].Price + "\t\t" + BookDL.Books[i].Quantity);
                    flag = true;
                    break;
                }
            }
```

```
            if (flag == false)
            {
                MessageBox.Show("Not Available!");
            }
            textBox1.Text = " ";
        }

        private void Form12_Load(object sender, EventArgs e)
        {
            string pathBook = "addbook.txt";
            BookDL.readBook(pathBook);
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Form9 f9 = new Form9();
            f9.Show();
            this.Hide();
        }
    }
```

Form 13 Code

```
public partial class Form13 : Form
    {
        private string path = "addbook.txt";
        public Form13()
        {
            InitializeComponent();

        }

        public void dataBind()
        {

            usersGV.DataSource = null;
            usersGV.DataSource = BookDL.Books;
            usersGV.Refresh();
        }
        private void Form1_Load(object sender, EventArgs e)
        {
            BookDL.Books.Clear();
            BookDL.readBook(path);
            usersGV.DataSource = BookDL.Books; // introspection
        }
        private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs e)
        {
            Book user = (Book)usersGV.CurrentRow.DataBoundItem;
            if (usersGV.Columns["Delete"].Index == e.ColumnIndex)
            {
                BookDL.deleteUserFromList(user);
                BookDL.storeAllDataIntoFile(path);
                dataBind();
            }
        }
        private void button2_Click(object sender, EventArgs e)
        {
            Form9 f9 = new Form9();
            f9.Show();
            this.Hide();
        }
```

```
        private void button3_Click_1(object sender, EventArgs e)
        {
            Application.Exit();
        }
    }
```

Form 14 Code

```
public partial class Form14 : Form
    {
        public Form14()
        {
            InitializeComponent();
        }        private void button2_Click(object sender, EventArgs e)
        {
            Form9 f9 = new Form9();
            this.Hide();
            f9.Show();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            string name = textBox1.Text;
            float bookbuy = float.Parse(textBox2.Text);
            float bill = float.Parse(textBox3.Text);
            string path = "customer.txt";
            Customer customer = new Customer(name, bookbuy, bill);
            CustomerDL.addCustomerintoFile(customer, path);
            CustomerDL.addCustomerintoList(customer);
            MessageBox.Show("BOOK ADDED!");
        }        private void button3_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }
    }
```

Form 15 Code

```
public partial class Form15 : Form
    {
        public Form15()
        {
            InitializeComponent();
        }

        private void Form15_Load(object sender, EventArgs e)
        {
            CustomerDL.Customer.Clear();
            string path = "customer.txt";
            CustomerDL.readCustomer(path);
            dataGridView1.DataSource = CustomerDL.Customer;
        }
        public void dataBind()
        {
            dataGridView1.DataSource = null;
            dataGridView1.DataSource = CustomerDL.Customer;
            dataGridView1.Refresh();
        }

        private void button3_Click(object sender, EventArgs e)
        {
```

```
            Application.Exit();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Form9 f9 = new Form9();
            f9.Show();
            this.Hide();
        }
    }
```

Program Code

```
 namespace Book_Store
{
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
    }
}
```