Lớp khác hàng:

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Drawing;
using System.Data;
using System.Windows.Forms;
using System.IO;
using System.ComponentModel;


namespace ClassPlaneTicket
{
    public enum sex { Male, Female };
    public class Customer
    {
        public string CustomerID { get; set; }
        public string CustomerName { get; set; }
        public sex Gender { get; set; }
        public DateTime Birthday { get; set; }
        public string email { get; set; }
        public Image Avatar { get; set; }
        public Customer()
        {
            CustomerID = "Not Assigned";
        }
        public Customer(string CustomerID, string CustomerName, sex Gender,
DateTime Birthday, string email, Image Avatar)
        {
            this.CustomerID = CustomerID;
            this.CustomerName = CustomerName;
            this.Gender = Gender;
            this.Birthday = Birthday;
            this.email = email;
            this.Avatar = Avatar;
        }
    }
    public class User
    {
        public string UserName { get; set; }
        public string Password { get; set; }
        public string CustomerID { get; set; }
        public User()
```
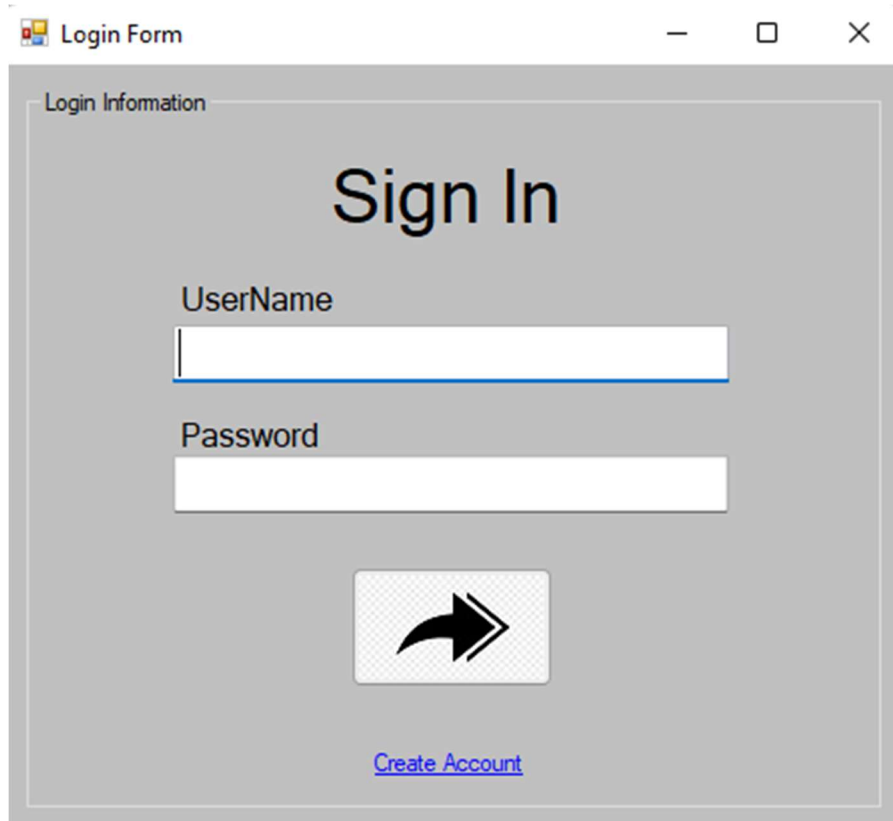
```csharp
        {
            UserName = "Not Assigned";
        }
        public User(string UserName, string Password, string CustomerID)
        {
            this.UserName = UserName;
            this.Password = Password;
            this.CustomerID = CustomerID;
        }
    }
    public class Flight
    {
        public string FlightID { get; set; }
        public string TimeDepart { get; set; }
        public string TimeArrival { get; set; }
        public string FlightType { get; set; }
        public Flight()
        {
            FlightID = "Not Assigned";
        }
        public Flight(string FlightID, string TimeDepart, string TimeArrival,
string FlightType)
        {
            this.FlightID = FlightID;
            this.TimeDepart = TimeDepart;
            this.TimeArrival = TimeArrival;
            this.FlightType = FlightType;
        }
    }
    public class FlightRegistration
    {
        public string CustomerID { get; set; }
        public List<Flight> FlightEnrollList;
        public FlightRegistration()
        {
            CustomerID = "Not Assigned";
            FlightEnrollList = new List<Flight>();
        }
        public FlightRegistration(string CustomerID)
        {
            this.CustomerID = CustomerID;
            FlightEnrollList = new List<Flight>();
        }
    }
}
```

Form Login:


```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.IO;

namespace ClassPlaneTicket
{
    public partial class LoginForm : Form
    {
        public static LoginForm OriginalForm;
        public List<Customer> CustomerList;
        public List<User> UserList;
        public List<Flight> FlightList;
        public List<FlightRegistration> FlightRegList;
        public string startupPath;
```

```csharp
        public bool Resetlogin;
        public LoginForm()
        {
            InitializeComponent();
            OriginalForm = this;
            startupPath =
Directory.GetParent(Directory.GetCurrentDirectory()).Parent.FullName;
            CustomerList = new List<Customer>();
            CustomerList.Add(new Customer("F001", "Admin", sex.Male,
DateTime.Now, "123@gmail.com",
                            Image.FromFile(startupPath +
"\\Img\\Nobita.jpg")));

            UserList = new List<User>();
            UserList.Add(new User("Admin", "123456", "F001"));//ten dang nhap,
mat khau, ID

            FlightList = new List<Flight>();
            FlightList.Add(new Flight("HN_HCM", "9h15", "12h00", "Vietnam
Airline"));
            FlightList.Add(new Flight("VN_HQ", "8h15", "14h30", "Vietnam
Airline"));
            FlightList.Add(new Flight("VN_NB", "7h30", "14h00", "Vietnam
Airline"));
            FlightList.Add(new Flight("ĐN_HCM", "20h15", "21h45", "VietJack"));
            FlightList.Add(new Flight("VN_TL", "13h00", "15h00", "Vietnam
Airline"));
            FlightList.Add(new Flight("HCM_PQ", "15h00", "16h30", "VietJack"));
            FlightList.Add(new Flight("PQ_HN", "8h00", "11h30", "Bamboo"));
            FlightList.Add(new Flight("HN_ĐN", "21h00", "22h30", "Vietnam
Airline"));

            FlightRegList = new List<FlightRegistration>();
            Resetlogin = true;
        }

        private void textBox1_TextChanged(object sender, EventArgs e)
        {

        }

        private void label2_Click(object sender, EventArgs e)
        {

        }
```

```csharp
        private void LoginForm_Load(object sender, EventArgs e)
        {

        }

        private void groupBox1_Enter(object sender, EventArgs e)
        {
            if (Resetlogin == true)
            {
                txtUserName.Text = "";
                txtPassword.Text = "";
            }

        }

        private void btnLogin_Click(object sender, EventArgs e)
        {
            if (txtUserName.Text.Length == 0)
            {
                MessageBox.Show("Please enter user name", "Input Error",
MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
                txtUserName.Focus();
                return;
            }
            if (txtPassword.Text.Length == 0)
            {
                MessageBox.Show("Please enter password", "Input Error",
MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
                txtPassword.Focus();
                return;
            }
            User Specificone = UserList.Find(x => (x.UserName ==
txtUserName.Text) && (x.Password == txtPassword.Text));
            if (Specificone == null)
            {
                MessageBox.Show("Username and Password are not matched. \n Please
reinput or register a new one",
                                "User Not Found", MessageBoxButtons.OK,
MessageBoxIcon.Exclamation);
                txtUserName.Text = "";
                txtPassword.Text = "";
                txtUserName.Focus();
            }
```

```csharp
            AirTicketBooking obj = new AirTicketBooking();
            User currentuser = UserList.Find(x => (x.UserName ==
txtUserName.Text) && (x.Password == txtPassword.Text));
            obj.SetCurrentuser(currentuser);
            this.Hide();
            obj.Show();
        }

        private void txtPassword_TextChanged(object sender, EventArgs e)
        {

        }

        private void linkCrAcc_LinkClicked(object sender,
LinkLabelLinkClickedEventArgs e)
        {
            RegistrationForm form = new RegistrationForm();
            this.Hide();
            form.Show();
        }
    }
}
```

Form Registration Account:


```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.IO;

namespace ClassPlaneTicket
{
    public partial class RegistrationForm : Form
    {
        string startupPath;
        string AvatarPath;
        LoginForm ParentForm;
        public RegistrationForm()
        {
            InitializeComponent();
            startupPath = LoginForm.OriginalForm.startupPath;
            ParentForm = LoginForm.OriginalForm;
        }
```

```csharp
        private void RegistrationForm_Load(object sender, EventArgs e)
        {

        }

        private void btnRemove_Click(object sender, EventArgs e)
        {
            ComponentResourceManager resources = new
ComponentResourceManager(typeof(RegistrationForm));
            picAvatar.Image =
((System.Drawing.Image)(resources.GetObject("picAvatar.Image")));
            picAvatar.SizeMode = PictureBoxSizeMode.StretchImage;
        }

        private void btnBrowse_Click(object sender, EventArgs e)
        {
            openFileDlg.Title = "Find Avatar Images";
            openFileDlg.Filter = "JPG files|*.jpg";
            openFileDlg.InitialDirectory = startupPath;

            if (openFileDlg.ShowDialog() == DialogResult.OK)
                AvatarPath = openFileDlg.FileName;
            picAvatar.Image = Image.FromFile(AvatarPath);
            startupPath = Path.GetDirectoryName(AvatarPath);
            picAvatar.SizeMode = PictureBoxSizeMode.StretchImage;
        }

        private void btnCreate_Click(object sender, EventArgs e)
        {
            User obj = new User();
            Customer objCustomer = new Customer();
            if (txtUserID.Text.Trim().Length == 0 ||
txtPassword.Text.Trim().Length == 0 || txtCustomerID.Text.Trim().Length == 0)
            {
                MessageBox.Show("CustomerID, UserName, Password are not blank",
"Input Error", MessageBoxButtons.OK,
                                MessageBoxIcon.Exclamation);
                return;
            }
            if (txtPassword.Text != txtPasswordConfirm.Text)
            {
                MessageBox.Show("Password and Comfirm Password are not matched",
"Input Error", MessageBoxButtons.OK,
                                MessageBoxIcon.Exclamation);
                return;
```

```csharp
            }
            User Specificone = ParentForm.UserList.Find(x => (x.UserName ==
txtUserID.Text) & (x.Password == txtPassword.Text));
            if (Specificone != null)
            {
                MessageBox.Show("UserID is existed", "Input Error",
MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
                return;
            }
            obj.UserName = txtUserID.Text;
            obj.Password = txtPassword.Text;
            obj.CustomerID = txtCustomerID.Text;
            objCustomer.CustomerID = txtCustomerID.Text;
            objCustomer.CustomerName = txtCustomerName.Text;
            objCustomer.Avatar = picAvatar.Image;
            objCustomer.Birthday = dtBirthday.Value;
            ParentForm.UserList.Add(obj);
            ParentForm.CustomerList.Add(objCustomer);

            MessageBox.Show(" New IserID is Created", "Account Created",
MessageBoxButtons.OK, MessageBoxIcon.Information);

        }

        private void btncbLogin_Click(object sender, EventArgs e)
        {
            this.Close();
            ParentForm.Show();
        }
    }
}
```

Form AirTicket Booking:


```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.IO;

namespace ClassPlaneTicket
{
    public partial class AirTicketBooking : Form
    {
        LoginForm ParentForm;
        string strRegistration;
        public Customer currentCustomer;
        public User currentUser;
        public int idxRegistration;

        public AirTicketBooking()
        {
            InitializeComponent();
            ParentForm = LoginForm.OriginalForm;
            foreach (Flight obj in ParentForm.FlightList)
                lsbFlightList.Items.Add(obj.FlightID);
```

```csharp
            rtxRegistrationInfo.Text = "";
        }

        public void SetCurrentuser(User user)
        {
            currentUser = user;
            currentCustomer = ParentForm.CustomerList.Find(x => (x.CustomerID ==
currentUser.CustomerID));
            idxRegistration = ParentForm.FlightRegList.FindIndex(x =>
(x.CustomerID == currentCustomer.CustomerID));
            if (idxRegistration >= 0)
            {
                foreach (Flight obj in
ParentForm.FlightRegList[idxRegistration].FlightEnrollList)
                {
                    int idx = lsbFlightList.FindString(obj.FlightID.Trim());
                    lsbFlightList.SetSelected(idx, true);
                }
            }
            ShowRegistrationInfo();
        }
        public string ShowRegistrationInfo()
        {
            strRegistration = "\t\t\t Flight Registration of Customer \n";
            strRegistration += "-----------------------------------------------
----------------------------------------\n";
            strRegistration += String.Format("\tCustomerID: {0}\n \tCustomer
Name: {1} \n", currentCustomer.CustomerID

        , currentCustomer.CustomerName);

            strRegistration += "-----------------------------------------------
-----------------------------------------";
            strRegistration += "\n" + "FlightID" + "\t\t" + "TimeDepart" + "\t" +
"TimeArrival"+ "\t" + "Flight Type";
            Flight obj;
            foreach (Object selectedItem in lsbFlightList.SelectedItems)
            {
                obj = ParentForm.FlightList.Find(x => (x.FlightID ==
selectedItem.ToString()));
                if (obj != null)
                    strRegistration += "\n" + obj.FlightID + "\t\t" +
obj.TimeDepart + "\t\t" + obj.TimeArrival+ "\t\t" + obj.FlightType;
            }
            rtxRegistrationInfo.Text = strRegistration;
```

```csharp
            return strRegistration;
        }
        private void btnAdd_Click(object sender, EventArgs e)
        {
            if (idxRegistration < 0)
            {
                ParentForm.FlightRegList.Add(new
FlightRegistration(currentCustomer.CustomerID));
                idxRegistration = ParentForm.FlightRegList.FindIndex(x =>
(x.CustomerID == currentCustomer.CustomerID));
                Flight obj;
                foreach (Object selectedItem in lsbFlightList.SelectedItems)
                {
                    obj = ParentForm.FlightList.Find(x => (x.FlightID ==
selectedItem.ToString()));
                    ParentForm.FlightRegList[idxRegistration].FlightEnrollList.Ad
d(obj);


                }
            }
            ShowRegistrationInfo();
        }

        private void btnLogOut_Click(object sender, EventArgs e)
        {
            this.Close();
            ParentForm.Resetlogin = true;
            ParentForm.Show();
        }

        private void btnConfirm_Click(object sender, EventArgs e)
        {
            MessageBox.Show(ShowRegistrationInfo(), "Thank You",
MessageBoxButtons.OK, MessageBoxIcon.Information);
        }

        private void lsbFlightList_SelectedIndexChanged(object sender, EventArgs
e)
        {

        }

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

```
        }
    }
}
```