

Login.cs

```
1
2 using System;
3 using System.Collections.Generic;
4 using System.ComponentModel;
5 using System.Data;
6 using System.Drawing;
7 using System.Text;
8 using System.Linq;
9 using System.Threading.Tasks;
10 using System.Windows.Forms;
11 using System.IO;
12
13
14
15 namespace Assignment_04
16 {
17     10 references
18     public partial class LoginForm : Form
19     {
20         public static LoginForm OriginalForm;
21         public List<Customer> CustomerList;
22         public List<User> UserList;
23         public List<Flight> FlightList;
24         public List<FlightRegistration> FlightRegistrationList;
25         public string startupPath;
26         public bool ResetLogin;
27
28
29         1 reference
30         public LoginForm()
31         {
32             InitializeComponent();
33             OriginalForm = this;
34             startupPath = Directory.GetParent(Directory.GetCurrentDirectory()).Parent.FullName;
35             CustomerList = new List<Customer>();
36             CustomerList.Add(new Customer("ST001", "Adrem", DateTime.Now, Sex.Male, "USA001", "USA", "admin@gmail.com",
37                 Image.FromFile(startupPath + "\\Images\\Nobita.jpg")));
38
39             UserList = new List<User>();
40             UserList.Add(new User("Admin", "1234", "ST001"));
41
42             FlightList = new List<Flight>();
43             FlightList.Add(new Flight("AL001", "Vietnam Airline", "8:00pm", "10:00pm"));
44             FlightList.Add(new Flight("AL002", "BamBoo Airline", "8:00am", "10:00am"));
45             FlightList.Add(new Flight("AL003", "VietJet Air", "10:00pm", "2:00am"));
46             FlightList.Add(new Flight("AL004", "Jetstar Pacific Airlines", "9:00am", "11:00am"));
47             FlightRegistrationList = new List<FlightRegistration>();
48             ResetLogin = true;
49         }
50
51         1 reference
52         private void btnLogin_Click(object sender, EventArgs e)
53         {
54             if (textUserName.Text.Length == 0)
55             {
56                 MessageBox.Show("Please enter user name", "Input Error", MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
57                 textUserName.Focus();
58                 return;
59             }
60             if (textPassword.Text.Length == 0)
61             {
62                 MessageBox.Show("Please enter password", "Input Error", MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
63                 textPassword.Focus();
64                 return;
65             }
66
67             User SpecificOne = UserList.Find(x => (x.UserName == textUserName.Text) && (x.Password == textPassword.Text));
68             if (SpecificOne == null)
69             {
70                 MessageBox.Show("Username and Password are not matched. \n Please reinput or register a new one",
71                     "User Not Found", MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
72                 textUserName.Text = "";
73                 textPassword.Text = "";
74                 textUserName.Focus();
75             }
76
77             AirTicketBooking obj = new AirTicketBooking();
78             User currentUser = UserList.Find(x => (x.UserName == textUserName.Text) && (x.Password == textPassword.Text));
79             obj.SetCurrentUser(currentUser);
80             this.Hide();
81             obj.Show();
82
83         1 reference
84         private void btnCancel_Click(object sender, EventArgs e)
85         {
86             System.Environment.Exit(0);
87         }
88
89         1 reference
90         private void linkLblRegister_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)
91         {
92             RegistrationAccount obj = new RegistrationAccount();
93             this.Hide();
94             obj.Show();
95         }
96
97         0 references
98         private void LoginForm_VisibleChanged(object sender, EventArgs e)
99         {
100             if (ResetLogin == true)
101             {
102                 textUserName.Text = "";
103                 textPassword.Text = "";
104             }
105         }
106     }
107 }
```

RegistrationAccount.cs

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace Assignment_04
12 {
13     7 references
14     public partial class RegistrationAccount : Form
15     {
16         string startupPath;
17         string AvatarPath;
18         LoginForm ParentForm;
19
20         1 reference
21         public RegistrationAccount()
22         {
23             InitializeComponent();
24             startupPath = LoginForm.OriginalForm.startupPath;
25             ParentForm = LoginForm.OriginalForm;
26         }
27
28         1 reference
29         private void btnBrowse_Click(object sender, EventArgs e)
30         {
31             openFileDialog.Title = "Find Avatar Images";
32             openFileDialog.Filter = "JPG files|*.jpg";
33             openFileDialog.InitialDirectory = startupPath;
34
35             if (openFileDialog.ShowDialog() == DialogResult.OK)
36             {
37                 AvatarPath = openFileDialog.FileName;
38                 picAvatar.Image = Image.FromFile(AvatarPath);
39                 picAvatar.SizeMode = PictureBoxSizeMode.StretchImage;
40             }
41         }
42
43         1 reference
44         private void btnClose_Click(object sender, EventArgs e)
45         {
46             this.Close();
47             ParentForm.Show();
48         }
49
50         1 reference
51         private void btnRemove_Click(object sender, EventArgs e)
52         {
53             ComponentResourceManager resources = new ComponentResourceManager(typeof(RegistrationAccount));
54             picAvatar.Image = ((System.Drawing.Image)(resources.GetObject("picAvatar.Image")));
55             picAvatar.SizeMode = PictureBoxSizeMode.StretchImage;
56         }
57     }
58 }
```

```

52 1 reference
53 private void btnCreate_Click(object sender, EventArgs e)
54 {
55     User obj = new User();
56     Customer objcustomer = new Customer();
57
58     if (textCustomerID.Text.Trim().Length == 0)
59     {
60         MessageBox.Show("CustomerID are blank!", "Input Error", MessageBoxButtons.OK,
61             MessageBoxIcon.Exclamation);
62     }
63     if (textCustomerName.Text.Trim().Length == 0)
64     {
65         MessageBox.Show("CustomerName are blank!", "Input Error", MessageBoxButtons.OK,
66             MessageBoxIcon.Exclamation);
67     }
68     if (textUserName.Text.Trim().Length == 0)
69     {
70         MessageBox.Show("UserName are blank!", "Input Error", MessageBoxButtons.OK,
71             MessageBoxIcon.Exclamation);
72     }
73     if (textPassword.Text.Trim().Length == 0)
74     {
75         MessageBox.Show("Password are blank!", "Input Error", MessageBoxButtons.OK,
76             MessageBoxIcon.Exclamation);
77     }
78     if (textPassPortNbr.Text.Trim().Length == 0)
79     {
80         MessageBox.Show("PassPortNbr are blank!", "Input Error", MessageBoxButtons.OK,
81             MessageBoxIcon.Exclamation);
82     }
83     if (textNationality.Text.Trim().Length == 0)
84     {
85         MessageBox.Show("Nationality are blank!", "Input Error", MessageBoxButtons.OK,
86             MessageBoxIcon.Exclamation);
87     }
88     if (textEmail.Text.Trim().Length == 0)
89     {
90         MessageBox.Show("Email are blank!", "Input Error", MessageBoxButtons.OK,
91             MessageBoxIcon.Exclamation);
92     }
93     if (textPassword.Text != textConfirmendPassword.Text)
94     {
95         MessageBox.Show("Password aren't matched", "Input Error", MessageBoxButtons.OK,
96             MessageBoxIcon.Exclamation);
97         return;
98     }
99
100     User SpecificOne = ParentForm.UserList.Find(x => (x.UserName == textUserName.Text) && (x.Password == textPassword.Text));
101     if (SpecificOne != null)
102     {
103         MessageBox.Show("UserName is existed", "Input Error", MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
104         return;
105     }

```

```

105     }
106
107     obj.UserName = textUserName.Text;
108     obj.Password = textPassword.Text;
109     obj.CustomerID = textCustomerID.Text;
110
111     objcustomer.CustomerID = textCustomerID.Text;
112     objcustomer.CustomerName = textCustomerName.Text;
113     objcustomer.Email = textEmail.Text;
114     objcustomer.Avatar = picAvatar.Image;
115     objcustomer.Birthday = dtBirthday.Value;
116     objcustomer.Gender = (rdMale.Checked == true) ? Sex.Male : Sex.Female;
117     objcustomer.PassPortNbr = textPassPortNbr.Text;
118     objcustomer.Nationality = textNationality.Text;
119
120     ParentForm.UserList.Add(obj);
121     ParentForm.CustomerList.Add(objcustomer);
122
123     MessageBox.Show("New UserName is Cereated", "Account Created", MessageBoxButtons.OK, MessageBoxIcon.Information);
124 }
125
126 1 reference
127 private void btnClean_Click(object sender, EventArgs e)
128 {
129     textCustomerID.Text = "";
130     textCustomerName.Text = "";
131     textUserName.Text = "";
132     textPassword.Text = "";
133     textConfirmendPassword.Text = "";
134     dtBirthday.Value = DateTime.Now;
135     textPassPortNbr.Text = "";
136     textNationality.Text = "";
137     rdMale.Checked = true;
138     rdFemale.Checked = false;
139     textEmail.Text = "";
140
141     ComponentResourceManager resources = new ComponentResourceManager(typeof(RegistrationAccount));
142     picAvatar.Image = ((System.Drawing.Image)(resources.GetObject("picAvatar.Image")));
143     picAvatar.SizeMode = PictureBoxSizeMode.StretchImage;
144 }
145
146
147
148

```

AirTicketBooking.cs

```

1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Data;
5  using System.Drawing;
6  using System.Linq;
7  using System.Text;
8  using System.Threading.Tasks;
9  using System.Windows.Forms;
10
11 namespace Assignment_04
12 {
13     5 references
14     public partial class AirTicketBooking : Form
15     {
16         LoginForm ParentForm;
17         string strRegistration;
18         public Customer currentCustomer;
19         public User currentUser;
20         public int idxRegistration;
21
22         1 reference
23         public AirTicketBooking()
24         {
25             InitializeComponent();
26             ParentForm = LoginForm.OriginalForm;
27
28             foreach (Flight obj in ParentForm.FlightList)
29                 lsbFlightList.Items.Add(obj.FlightType);
30
31             rtxtRegistrationInfo.Text = "";
32
33         1 reference
34         public void SetCurrentUser(User user)
35         {
36             currentUser = user;
37             currentCustomer = ParentForm.CustomerList.Find(x => (x.CustomerID == currentUser.CustomerID));
38
39             idxRegistration = ParentForm.FlightRegistrationList.FindIndex(x => (x.CustomerID == currentCustomer.CustomerID));
40             if (idxRegistration >= 0)
41             {
42                 foreach (Flight obj in ParentForm.FlightRegistrationList[idxRegistration].FlightEnrollList)
43                 {
44                     int idx = lsbFlightList.FindString(obj.FlightType.Trim());
45                     lsbFlightList.SetSelected(idx, true);
46                 }
47             }
48
49             ShowRegistrationInfo();
50         }
51     }
52 }

```

```

50     3 references
51     public string ShowRegistrationInfo()
52     {
53         strRegistration = "\t\t\t Flight Registration of Customer \n";
54         strRegistration += "-----\n";
55         strRegistration += String.Format("CustomerID: {0}\nCustomer Name: {1}\n", currentCustomer.CustomerID, currentCustomer.CustomerName);
56
57         Flight obj;
58         foreach (Object selectedItem in lsbFlightList.SelectedItems)
59         {
60             obj = ParentForm.FlightList.Find(x => (x.FlightType == selectedItem.ToString()));
61
62             if (obj != null)
63                 strRegistration += "\n" + obj.FlightID + "\t" + obj.FlightType + " " + obj.TimeDepart + "-" + obj.TimeArrival;
64         }
65
66         rtxtRegistrationInfo.Text = strRegistration;
67
68         return strRegistration;
69     }
70
71     1 reference
72     private void btnAdd_Click(object sender, EventArgs e)
73     {
74         if (idxRegistration < 0)
75         {
76             ParentForm.FlightRegistrationList.Add(new FlightRegistration(currentCustomer.CustomerID));
77             idxRegistration = ParentForm.FlightRegistrationList.FindIndex(x => (x.CustomerID == currentCustomer.CustomerID));
78
79             Flight obj;
80             foreach (Object selectedItem in lsbFlightList.SelectedItems)
81             {
82                 obj = ParentForm.FlightList.Find(x => (x.FlightType == selectedItem.ToString()));
83                 ParentForm.FlightRegistrationList[idxRegistration].FlightEnrollList.Add(obj);
84             }
85             ShowRegistrationInfo();
86         }
87
88     1 reference
89     private void btnConfirm_Click(object sender, EventArgs e)
90     {
91         MessageBox.Show(ShowRegistrationInfo(), "thank you", MessageBoxButtons.OK, MessageBoxIcon.Information);
92     }
93
94     1 reference
95     private void btnLogOut_Click(object sender, EventArgs e)
96     {
97         this.Close();
98         ParentForm.ResetLogin = true;
99         ParentForm.Show();
100     }
101 }

```

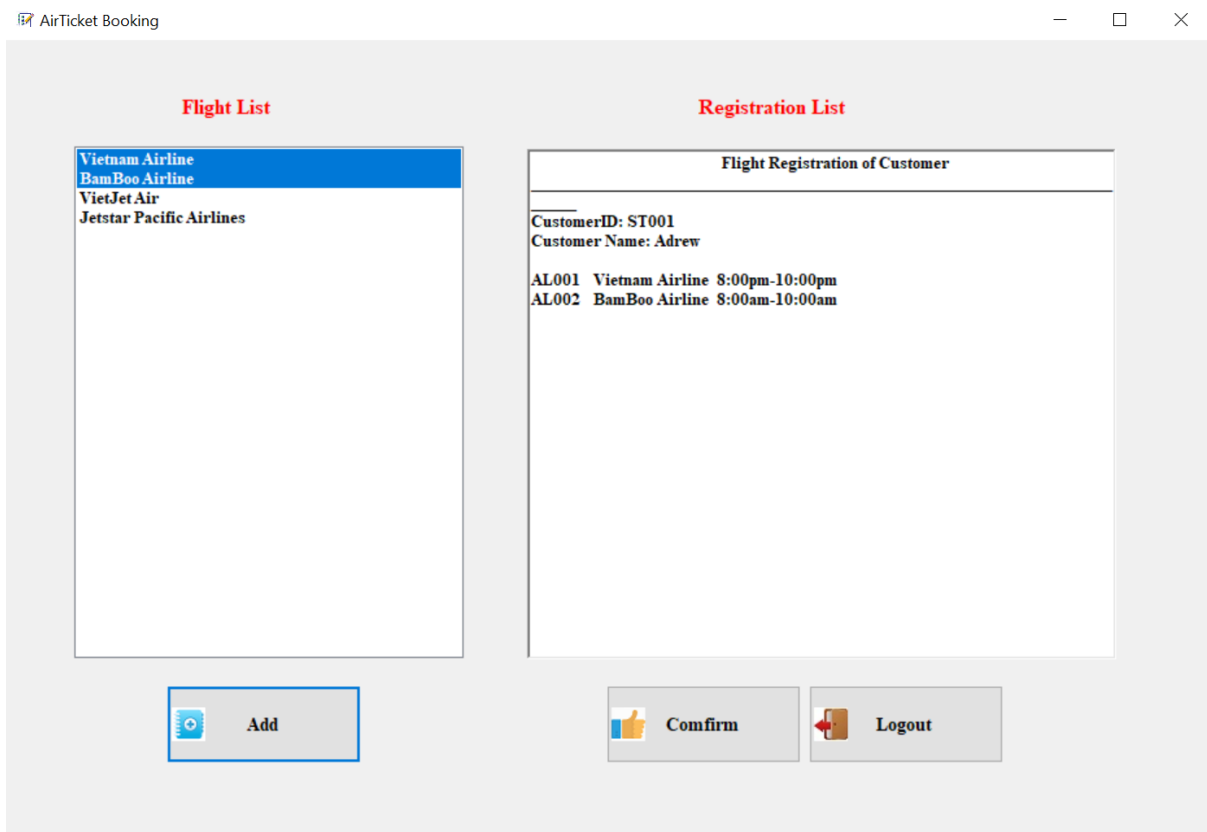
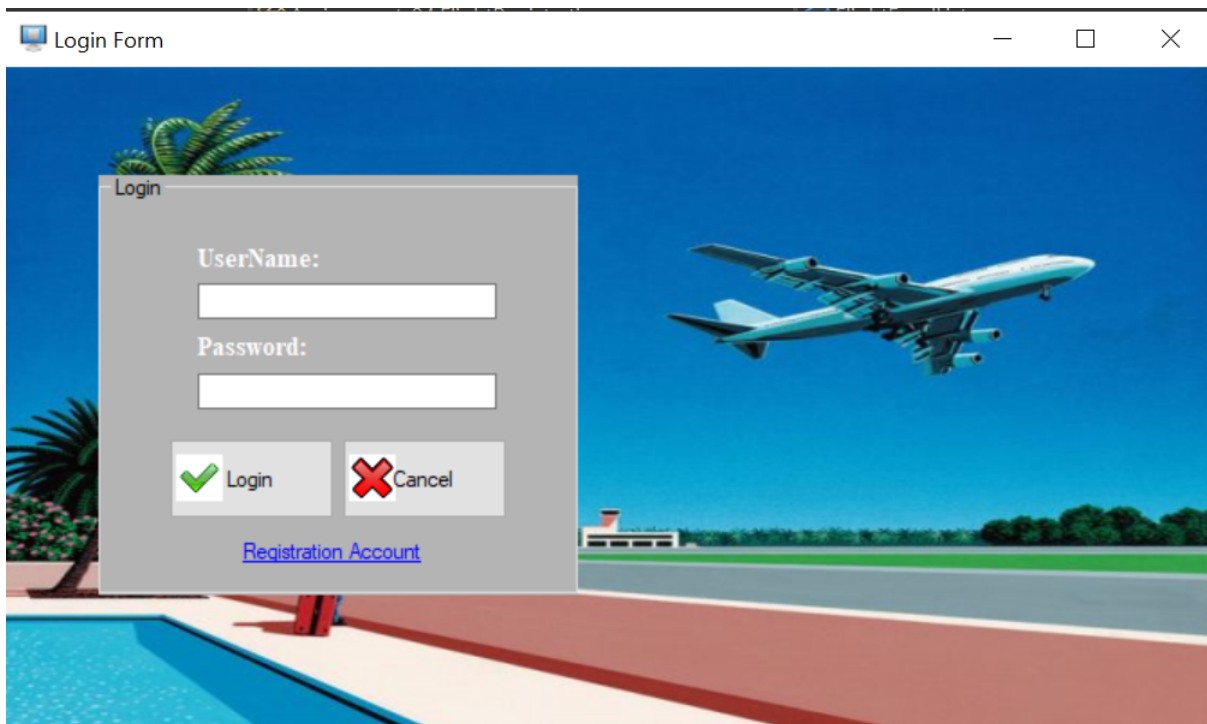
Customer.cs

```
1  using System;
2  using System.Collections.Generic;
3  using System.Drawing;
4  using System.IO;
5  using System.Linq;
6  using System.Text;
7  using System.Threading.Tasks;
8
9  namespace Assignment_04
10 {
11     5 references
12     public enum Sex { Male, Female };
13     8 references
14     public class Customer
15     {
16         8 references
17         public string CustomerID { get; set; }
18         3 references
19         public string CustomerName { get; set; }
20         2 references
21         public DateTime Birthday { get; set; }
22         2 references
23         public Sex Gender { get; set; }
24         2 references
25         public string PassPortNbr { get; set; }
26         2 references
27         public string Nationality { get; set; }
28         2 references
29         public string Email { get; set; }
30         2 references
31         public Image Avatar { get; set; }
32
33         1 reference
34         public Customer()
35         {
36             CustomerID = "Not Assigned";
37         }
38
39         1 reference
40         public Customer(string CustomerID, string CustomerName, DateTime Birthday, Sex Gender,
41             string PassPortNbr, string Nationality, string Email, Image Avatar)
42         {
43             this.CustomerID = CustomerID;
44             this.CustomerName = CustomerName;
45             this.Birthday = Birthday;
46             this.Gender = Gender;
47             this.PassPortNbr = PassPortNbr;
48             this.Nationality = Nationality;
49             this.Email = Email;
50             this.Avatar = Avatar;
51         }
52     }
53
54     12 references
55     public class User
56     {
57         6 references
58         public string UserName { get; set; }
59         5 references
60         public string Password { get; set; }
61         3 references
62         public string CustomerID { get; set; }
63
64         1 reference
65         public User()
66         {
67             UserName = "Not Assigned";
68         }
69
70         1 reference
71         public User(string UserName, string Password, string CustomerID)
72         {
73             this.UserName = UserName;
74             this.Password = Password;
75             this.CustomerID = CustomerID;
76         }
77     }
78 }
```

```

61 15 references
62 public class Flight
63 {
64     3 references
65     public string FlightID { get; set; }
66     6 references
67     public string FlightType { get; set; }
68     2 references
69     public string TimeDepart { get; set; }
70     2 references
71     public string TimeArrival { get; set; }
72
73     0 references
74     public Flight()
75     {
76         FlightID = "Not Assigned";
77     }
78
79     4 references
80     public Flight(string FlightID, string FlightType, string TimeDepart, string TimeArrival)
81     {
82         this.FlightID = FlightID;
83         this.FlightType = FlightType;
84         this.TimeDepart = TimeDepart;
85         this.TimeArrival = TimeArrival;
86     }
87
88     5 references
89     public class FlightRegistration
90     {
91         4 references
92         public string CustomerID { get; set; }
93         public List<Flight> FlightEnrollList;
94
95         0 references
96         public FlightRegistration()
97         {
98             CustomerID = "Not Assigned";
99             FlightEnrollList = new List<Flight>();
100         }
101
102         1 reference
103         public FlightRegistration(string CustomerID)
104         {
105             this.CustomerID = CustomerID;
106             FlightEnrollList = new List<Flight>();
107         }
108     }
109 }

```



AirTicket Booking

Flight List

Vietnam Airline

BamBoo Airline

VietJet Air

Jetstar Pacific Airlines

Registration List

Flight Registration of Customer

CustomerID: ST001

thank you

Flight Registration of Customer

CustomerID: ST001

Customer Name: Adrew

AL001 Vietnam Airline 8:00pm-10:00pm

AL002 BamBoo Airline 8:00am-10:00am

OK

Add

Confirm

Logout

Registration

CustomerID: ST002

Customer Name: Duy

BirthDay: 12/ 8/2021

Gender: ☒ Male ☐ Female

Nationality: VN

PassPortNbr: VN001

Email: duy@gmail.com

UserName: Duy

Password: ****

Confirmed Password: ****

Browse

Remove

Create

Clear

Close

AirTicket Booking

Flight List

Vietnam Airline
BamBoo Airline
VietJet Air
Jetstar Pacific Airlines

Add

Registration List

Flight Registration of Customer

CustomerID: ST002
Customer Name: Duy

AL001 Vietnam Airline 8:00pm-10:00pm
AL002 BamBoo Airline 8:00am-10:00am
AL003 VietJet Air 10:00pm-2:00am
AL004 Jetstar Pacific Airlines 9:00am-11:00am

Comfirm

Logout

AirTicket Booking

Flight List

Vietnam Airline
BamBoo Airline
VietJet Air
Jetstar Pacific Airlines

Add

Registration List

Flight Registration of Customer

CustomerID: ST002
Customer Name: Duy

AL001 Vietnam Airline 8:00pm-10:00pm
AL002 BamBoo Airline 8:00am-10:00am
AL003 VietJet Air 10:00pm-2:00am
AL004 Jetstar Pacific Airlines 9:00am-11:00am

Comfirm

Logout

thank you

Flight Registration of Customer

CustomerID: ST002
Customer Name: Duy

AL001 Vietnam Airline 8:00pm-10:00pm
AL002 BamBoo Airline 8:00am-10:00am
AL003 VietJet Air 10:00pm-2:00am
AL004 Jetstar Pacific Airlines 9:00am-11:00am

OK