using System;

using System.Collections;

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;

namespace CustomerQueueManageUDT

{

public partial class CusQueManForm : Form

{

Queue<Customer> aCustomerQueue =new Queue<Customer>();

Customer aCustomer = new Customer();

ListViewItem itemSelect;

public int count;

public int presentSlNo;

private int dQserialNo;

public CusQueManForm()

{

InitializeComponent();

}

private void buttonEnqueue\_Click(object sender, EventArgs e)

{

//Customer aCustomer = new Customer();

count++;

aCustomer.name = textBoxName.Text;

aCustomer.complain = textBoxComplain.Text;

//aCustomer.serialNo = aCustomerQueue.Count+1;

aCustomer.serialNo = Convert.ToInt32(count);

aCustomerQueue.Enqueue(aCustomer);

//int dQserialNo = Convert.ToInt32(textBoxSerialNo.Text);

ListViewItem selectItem = new ListViewItem(aCustomer.serialNo.ToString());

selectItem.SubItems.Add(aCustomer.name);

selectItem.SubItems.Add(aCustomer.complain);

listViewQueue.Items.Add(selectItem);

//foreach (Customer see in aCustomerQueue)

//{

// int i = count++;

// listViewQueue.Items.Add(aCustomer.serialNo.ToString());

// listViewQueue.Items[i].SubItems.Add(aCustomer.name);

// listViewQueue.Items[i].SubItems.Add(aCustomer.complain);

// yield break;

//}

textBoxName.Clear();

textBoxComplain.Clear();

}

private void buttonDequeue\_Click(object sender, EventArgs e)

{

int dQserialNo = Convert.ToInt32(textBoxSerialNo.Text);

int presentSlNo = Convert.ToInt32(listViewQueue.Items[0].SubItems[0].Text);

if (listViewQueue.Items.Count==0) return;

textBoxNameShow.Text = listViewQueue.Items[0].SubItems[1].Text;

textBoxComplainShow.Text = listViewQueue.Items[0].SubItems[2].Text;

if (dQserialNo == presentSlNo)

{

aCustomerQueue.Dequeue();

listViewQueue.Items.RemoveAt(0);

}

else if (dQserialNo < presentSlNo)

{

textBoxNameShow.Text = "The Customer";

textBoxComplainShow.Text = "has been served";

}

else

{

textBoxNameShow.Text = "wrong guy";

textBoxComplainShow.Text = "can't be processed now";

}

//listViewQueue.Items.Clear();

//listViewQueue.Items.Add(itemSelect);

//ShowInList(aCustomer,out itemSelect);

}

}

}

class Customer

{

public string name;

public string complain;

public int serialNo;

}