using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.IO;

using System.Linq;

using System.Net;

using System.Net.Sockets;

using System.Runtime.Serialization.Formatters.Binary;

using System.Text;

using System.Threading;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace Client

{

public partial class Client : Form

{

public Client()

{

InitializeComponent();

CheckForIllegalCrossThreadCalls = false;

Connect();

}

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

{

Send();

AddMessage(txbMessage.Text);

}

IPEndPoint IP;

Socket client;

void Connect()

{

//Dia chi IP

IP = new IPEndPoint(IPAddress.Parse("127.0.0.1"), 9999);

client = new Socket(AddressFamily.InterNetwork,SocketType.Stream,ProtocolType.IP); //Luon dung

try

{

client.Connect(IP); //Ket noi

}

catch

{

MessageBox.Show("Khong the ket noi sever", "Loi", MessageBoxButtons.OK, MessageBoxIcon.Error);

return;

}

//Lang nghe

Thread listen = new Thread(Receive);

listen.IsBackground = true;

listen.Start();

}

void Close()

{

client.Close();

}

void Send() //Gui Tin

{

if (txbMessage.Text !=string.Empty) //khac rong

client.Send(Serialize(txbMessage.Text));

}

void Receive() //Nhan tin

{

try

{

while (true)

{

byte[] data = new byte[1024 \* 5000];

client.Receive(data);

string message = (string)Deserialize(data);

AddMessage(message);

}

}

catch

{

Close();

}

}

void AddMessage(string s) //Them tin nhan vao listView

{

lsvMessage.Items.Add(new ListViewItem() { Text = s });

txbMessage.Clear();

}

byte[] Serialize(object obj) //Phan manh

{

MemoryStream stream = new MemoryStream();

BinaryFormatter formatter = new BinaryFormatter();

formatter.Serialize(stream, obj); //chuyen obj thanh day byte

return stream.ToArray(); //chuyen thanh mang 01..

}

object Deserialize(byte[] data) //Gom manh

{

MemoryStream stream = new MemoryStream(data); //lay ma

BinaryFormatter formatter = new BinaryFormatter();

return formatter.Deserialize(stream); //chuyen ma

}

private void Client\_FormClosed(object sender, FormClosedEventArgs e)

{

Close();

}

private void Client\_Load(object sender, EventArgs e)

{

}

}

}