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 Sever

{

public partial class Sever : Form

{

public Sever()

{

InitializeComponent();

CheckForIllegalCrossThreadCalls = false;

Connect();

}

IPEndPoint IP;

Socket sever;

List<Socket> clientList;

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

{

Connect();

}

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

{

foreach (Socket item in clientList)

{

Send(item);

}

txbMessage.Clear();

}

void Connect()

{

clientList = new List<Socket>();

//Dia chi IP

IP = new IPEndPoint(IPAddress.Any, 9999);

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

sever.Bind(IP);

//Lang nghe

Thread listen = new Thread(() =>

{

try

{

while (true) //lang nghe nhieu client

{

sever.Listen(100); //lang nghe

Socket client = sever.Accept(); //Lay client

clientList.Add(client);

Thread receive = new Thread(Receive);

receive.IsBackground = true;

receive.Start(client);

}

}

catch

{

//khoi tao

IP = new IPEndPoint(IPAddress.Any, 9999);

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

}

});

listen.IsBackground = true;

listen.Start();

}

void Close()

{

sever.Close();

}

void Send(Socket client) //Gui Tin

{

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

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

}

void Receive(object obj) //Nhan tin

{

Socket client = obj as Socket;

try

{

while (true)

{

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

client.Receive(data);

string message = (string)Deserialize(data);

AddMessage(message);

}

}

catch

{

clientList.Remove(client);

client.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

}

}

}