

.Net Programming Lab

Assingment-3

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Create a DLL for User authentication system. Create a form and using remoting concept validate user.

Userauthclass.dll

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace userauthclass
{
    public class user:MarshalByRefObject
    {
        public string uname="nikhil", pass="chintu";
        public int verify(string n, string p)
        {
            if (n == uname)
                if (p == pass)
                    return 1;
            return 0;
        }
    }
}
```

Userauthserver console application:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Runtime.Remoting;
using System.Runtime.Remoting.Channels;
using System.Runtime.Remoting.Channels.Http;
using userauthclass;

namespace userauthserver
{
    class Program
    {
        static void Main(string[] args)
        {
            HttpChannel c = new HttpChannel(1432);
            ChannelServices.RegisterChannel(c, false);
        }
    }
}
```

```

RemotingConfiguration.RegisterWellKnownServiceType(typeof(userauthclass.user),
"userauth.soap", WellKnownObjectMode.Singleton);
    Console.WriteLine("Server Started");
    Console.ReadKey();
}
}
}

```

Userauthclient windows application:

```

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.Runtime.Remoting;
using System.Runtime.Remoting.Channels;
using System.Runtime.Remoting.Channels.Http;
using userauthclass;

namespace userauthclient
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
            HttpChannel c = new HttpChannel();
            ChannelServices.RegisterChannel(c, false);
        }

        private void button1_Click(object sender, EventArgs e)
        {
            Object obj=Activator.GetObject(typeof(userauthclass.user),
                "http://localhost:1432/userauth.soap");
            user s = (user)obj;
            string u = textBox1.Text;
            string p = textBox2.Text;
            int a = s.verify(u, p);
            if (a == 1)
            {
                MessageBox.Show("User is Valid");
            }
            if(a==0)
            {
                MessageBox.Show("Invalid User");
            }
        }
    }
}

```

Output:



