POP3

```csharp
using System;
using System.Drawing;
using System.IO;
using System.Net;
using System.Net.Sockets;
using System.Text;
using System.Threading;
using System.Windows.Forms;

namespace PopMailProject
{
    public partial class Form1 : Form
    {
        public string server;
        public string username;
        public Form1()
        {
            InitializeComponent();
            ColumnHeader header1 = lstmail.Columns.Add("No.", 5 *
            Convert.ToInt32(lstmail.Font.SizeInPoints), HorizontalAlignment.Center);
                    ColumnHeader header2 = lstmail.Columns.Add("From", 20 *
            Convert.ToInt32(lstmail.Font.SizeInPoints), HorizontalAlignment.Center);
                    ColumnHeader header3 = lstmail.Columns.Add("To", 20 *
            Convert.ToInt32(lstmail.Font.SizeInPoints), HorizontalAlignment.Center);
                    ColumnHeader header4 = lstmail.Columns.Add("Subject", 20 *
            Convert.ToInt32(lstmail.Font.SizeInPoints), HorizontalAlignment.Left);
                    ColumnHeader header5 = lstmail.Columns.Add("Date", 20 *
            Convert.ToInt32(lstmail.Font.SizeInPoints), HorizontalAlignment.Left);


        }

        private void cmdexit_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }
        private TcpClient mailclient;
        private NetworkStream ns;
        private StreamReader sr;
        private StreamWriter sw;

        private void cmdlogin_Click(object sender, EventArgs e)
        {
            lblstatus.Text = "Status: Checking for messages...";
            Thread startlogin = new Thread(new ThreadStart(loginandretr));
            startlogin.IsBackground = true;
            startlogin.Start();
            server = txtserver.Text;
            username = txtusername.Text;

        }
        void loginandretr()
        {
            string response;
            string from = "";
```

```csharp
string to = "";
string subject = "";
string date = "";

int totmessages;
try
{
    mailclient = new TcpClient(txtserver.Text, 110);
}
catch (SocketException)
{
    lblstatus.Text = "Status: Unable to connect to server";
    return;
}
ns = mailclient.GetStream();
sr = new StreamReader(ns);
sw = new StreamWriter(ns);
response = sr.ReadLine(); //Get opening POP3 banner
sw.WriteLine("User " + txtusername.Text); //Send username
sw.Flush();
response = sr.ReadLine();
if (response.Substring(0, 3) == "-ER")
{
    lblstatus.Text = "Status: Unable to log into server";
    return;
}
sw.WriteLine("Pass " + txtpassword.Text); //Send password
sw.Flush();
try
{
    response = sr.ReadLine();
}
catch (IOException)
{
    lblstatus.Text = "Status: Unable to log into server";
    return;
}
if (response.Substring(0, 4) == "-ERR")
{
    lblstatus.Text = "Status: Unable to log into server";
    return;
}
sw.WriteLine("stat"); //Send stat command to get number of messages
sw.Flush();
response = sr.ReadLine();
string[] nummess = response.Split(' ');
totmessages = Convert.ToInt16(nummess[1]);
System.Windows.Forms.Control.CheckForIllegalCrossThreadCalls = false;
if (totmessages > 0)
{
    lblstatus.Text = "Status: you have " + totmessages + " messages";
}
else
{
    lblstatus.Text = "Status: You have no messages";
}
for (int i = 1; i <= totmessages; i++)
{
```

```csharp
            sw.WriteLine("top " + i + " 0"); //read header of each message
            sw.Flush();
            response = sr.ReadLine();

            while (true)
            {
                response = sr.ReadLine();
                if (response == ".")
                    break;
                if (response.Length > 4)
                {
                    if (response.Substring(0, 5) == "From:")
                        from =  response;
                    if (response.Substring(0, 3) == "To:")
                        to = response;
                    if (response.Substring(0, 8) == "Subject:")
                        subject = response;
                    if (response.Substring(0, 5) == "Date:")
                        date = response;
                }
            }
            if (from != "")
            {
                string[] myItems = new string[]
               {i+"",
                from + " ",
                to + " "  ,
                subject + "",
                date+""


               };
                ListViewItem lvi = new ListViewItem(myItems);
                lstmail.Items.Add(lvi);
            }




    }
}

private void Form1_Load(object sender, EventArgs e)
{


}

private void Form1_Load_1(object sender, EventArgs e)
{

}

private void cdmsendmail_Click(object sender, EventArgs e)
{
    this.Visible = false;
    SMTP f2 = new SMTP(txtserver.Text,txtusername.Text);
    f2.Show();
```

```csharp
        }


        private void lstmail_SelectedIndexChanged(object sender, EventArgs e)
        {
            if (lstmail.SelectedItems.Count > 0)
            {
                ListViewItem lstItem = lstmail.SelectedItems[0];
                lblfrom.Text = lstItem.SubItems[1].Text;
                lblto.Text = lstItem.SubItems[2].Text;
                lblsubject.Text = lstItem.SubItems[3].Text;
                ShowMessage(lstItem.Text);

            }

        }
        public void  ShowMessage(string messnumber)
            {
            StreamReader sr = new StreamReader(ns);
            StreamWriter sw = new StreamWriter(ns);
            string response;
            sw.WriteLine("retr " + messnumber); //Retrieve entire message
            sw.Flush();
            response = sr.ReadLine();
            while (true)
                {   response = sr.ReadLine();
                    if (response == ".")
                    break;
                    txtbody.Text += response + "\r\n";
                }
        }



        }
        }
```

SMTP

```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Web.Mail;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

namespace PopMailProject
{
    public partial class SMTP : Form
    {
        public string f2server;
        public string f2username;
        Form1 server = new Form1();
        public SMTP(string server,string username)
```

```csharp
        {
            InitializeComponent();
            f2server = server;
            f2username = username;
            txtfrom.Text =username;

         }

        private void cmdexit_Click(object sender, EventArgs e)
        {
            this.Visible = false;
            Form1 f1 = new Form1();
            f1.Show();

        }

        private void cmdattach_Click(object sender, EventArgs e)
        {
            string dir;
            OpenFileDialog op = new OpenFileDialog();
            op.ShowDialog();
            dir = op.FileName;
            txtattach.Text = dir;
        }

        private void cmdsend_Click(object sender, EventArgs e)
        {
            MailAttachment myattach = new MailAttachment(txtattach.Text,
MailEncoding.Base64);
            MailMessage newmessage = new MailMessage();
            newmessage.From = txtfrom.Text;
            newmessage.To = txtto.Text;
            if (txtcc.Text != "")
            {
                newmessage.Cc = txtcc.Text;
            }

            newmessage.Subject = txtsubject.Text;
            newmessage.Priority = MailPriority.High;
            newmessage.Attachments.Add(myattach);
            newmessage.Body = txtbody.Text;
            try
            {
                SmtpMail.SmtpServer = f2server;
                SmtpMail.Send(newmessage);
                lblstatus.Text = "Send mail successful!";
            }
            catch (System.Web.HttpException)
            {
                lblstatus.Text="Error send mail !!!";
            }

            txtto.Text = "";
            txtcc.Text = "";
            txtattach.Text = "";
            txtsubject.Text = "";
            txtbody.Text = "";
```

```csharp
        }

        private void SMTP_Load(object sender, EventArgs e)
        {

        }


    }
}
```