Subject: WebMail package (POP/SMPT/IMAP)
Posted by Oblivion on Mon, 22 Sep 2008 15:05:36 GMT
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Hi,

I am working on a WebMail package, which will include the below classes:

MailSocket (actually, this class is created with the U++ SmtpMail code)

EMail
POP3Mail
SMTPMail (I know there is already a SmtpMail, but I found it hardly useful).
IMAP

Althoug the WebMail package is under heavy development, I would like to upload the source code here, for I will not add this class to the SVN until it becomes fully productive.

Currently, only the POP3Mail class is complete (has APOP) and EMail class can only parse plain text mails (other MIME types will be supported with a MIMEParser, but it's another story.

I've created a simple multihreading POP3 mail reader example, which I hope will give you an idea what can be done.

I would like to know your opinions. Also any feedbacks, help and criticisms are apperciated.

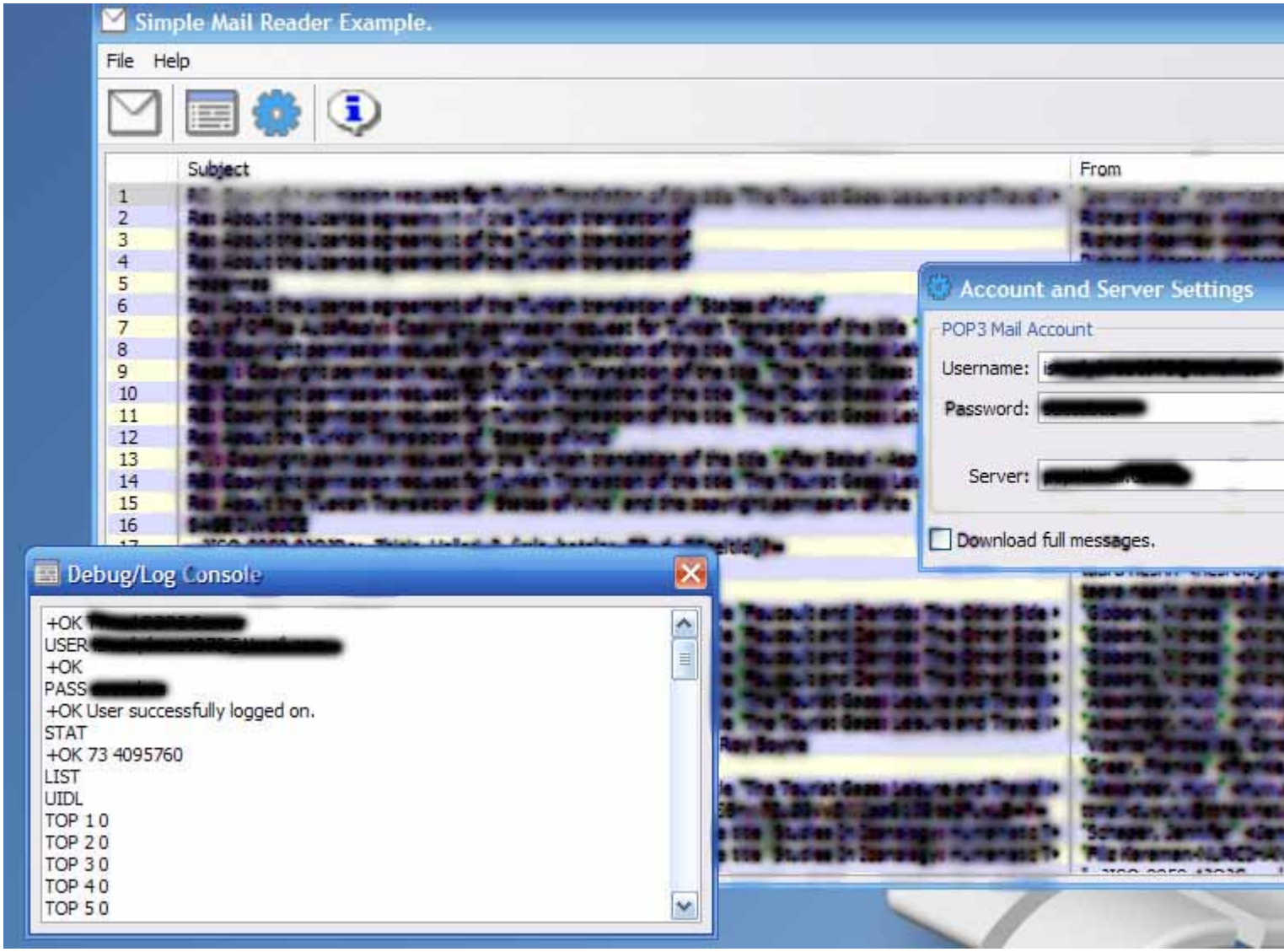
Regards.

File Attachments
1) WebMail package and example.zip, downloaded 621 times

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Oblivion on Mon, 22 Sep 2008 15:07:27 GMT
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Here is the Simple mail reader:

File Attachments
1) Mailreader.jpg, downloaded 2145 times



Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by forlano on Mon, 22 Sep 2008 17:03:34 GMT
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[quote title=Oblivion wrote on Mon, 22 September 2008 17:07]Here is the Simple mail reader: quote]

Hi Oblivion!

The program compiled without problem but didn't work: it crashed when I entered the site address like mail.vegachess.com.
Then I entered the numeric format xxx.yyy.uuu.vvv and it tried to connect but without success and without crush:
POP3Mail Error: Cannot open socket 216.115.108.245:110: Reason: socket(1660) / connect(216.115.108.245:110): Connection timed out. (WSAETIMEDOUT)

Instead with thunderbird I was able to connect without time delay.
Any idea?

It would be very nice to have saved one time for all the settings of the window "Account and Server Settings" and avoid to retype it each time. So the program should retrieve in some config file the last used parameters.

Luigi

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Oblivion on Mon, 22 Sep 2008 17:26:46 GMT
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forlano wrote on Mon, 22 September 2008 20:03Oblivion wrote on Mon, 22 September 2008 17:07
Here is the Simple mail reader:

Hi Oblivion!

The program compiled without problem but didn't work: it crashed when I entered the site address like mail.vegachess.com.
Then I entered the numeric format xxx.yyy.uuu.vvv and it tried to connect but without success and without crush:
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Any idea?

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Luigi

Hmm...

Confirmed. It works flawlesly when comipled with MSVC8 and MSVC9. But I reproduced the errors you mention on MinGW(did I mention that I hate that ever-complaining compiler?)
Probably a "reference" related bug, Also, the example should already "serialize" the settings window's content. I dont get it why it doesn't save and load the settings on MinGW. I'll try to find reason for this and I'll fix the problems asap.

Thanks.

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Oblivion on Mon, 22 Sep 2008 17:37:44 GMT
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Gotcha!
I've fixed the problem. And updated the package. Could you please test it again. I need confirmation. Also, serialization should work too.

Thank you

Regards.

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by forlano on Mon, 22 Sep 2008 18:38:41 GMT
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Oblivion wrote on Mon, 22 September 2008 19:37Gotcha!
I've fixed the problem. And updated the package. Could you please test it again. I need confirmation. Also, serialization should work too.

Thank you

Regards.

Serialization works. But still I experience a server timed out. Perhaps is my server?
I'll try to compile with MCV9 as soon as possible.
Luigi

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Oblivion on Mon, 22 Sep 2008 18:57:37 GMT
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Interesting. I didn't encounter any timeout errors after fixing the problem. Did you check your mail servers settings from thunderbird? Timeout error is likely to happen if your server is using TSL or SSL, or if you are trying to connect at a IMAP server. (POP3Mail class doesn't support TLS or SSL - not yet). Anyways, I'll examine the situation... Thanks.

Regards.

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by forlano on Mon, 22 Sep 2008 19:44:42 GMT
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Oblivion wrote on Mon, 22 September 2008 20:57Interesting. I didn't encounter any timeout errors after fixing the problem. Did you check your mail servers settings from thunderbird? Timeout error is likely to happen if your server is using TSL or SSL, or if you are trying to connect at a IMAP server. (POP3Mail class doesn't support TLS or SSL - not yet). Anyways, I'll examine the situation... Thanks.

Regards.

The timed out error disappeared after I used the correct IP , but no emails were retrieved. Tested with MSC9 with the same null result.
I saw that it is difficult (impossible) to exit the program when it is running and the program crush if I press two times read email.

Thanks,
Luigi

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by captainc on Mon, 22 Sep 2008 20:08:20 GMT
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Quote:(POP3Mail class doesn't support TLS or SSL - not yet
What are your plans for this? It would be great to work with a single Upp SSL package that could be used for many things like web, ftp, mail, etc... Or will they all be specific implementations anyway?

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by captainc on Tue, 23 Sep 2008 03:24:19 GMT
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Just found this: http://www.stunnel.org/
Quote:Stunnel -- Universal SSL Wrapper
Stunnel is a program that allows you to encrypt arbitrary TCP connections inside SSL (Secure Sockets Layer) available on both Unix and Windows.

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Mindtraveller on Tue, 23 Sep 2008 18:56:23 GMT
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I`ve just tried your MailReader application. It managed to read all the headers from my mail account by POP3 protocol:
Quote:+OK
USER **********
+OK Password required for user ********

PASS **********
+OK ********** maildrop has 133 messages (155829248 octets)
STAT
+OK 133 155829248
LIST
UIDL
QUIT
+OK POP3 server at ******* signing off Everything worked if I tick "Transcript" ckeckbox (no idea what that means). Without "Transcript" checked program fails to connect to server (no debug info shown) with GPF exception from time to time.

U++: latest SVN build
OS: WinXP SP2

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Oblivion on Tue, 23 Sep 2008 23:33:02 GMT
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Mindtraveller wrote on Tue, 23 September 2008 21:56I`ve just tried your MailReader application. It managed to read all the headers from my mail account by POP3 protocol:
Quote:+OK
USER **********
+OK Password required for user ********
PASS **********
+OK ********** maildrop has 133 messages (155829248 octets)
STAT
+OK 133 155829248
LIST
UIDL
QUIT
+OK POP3 server at ******* signing off Everything worked if I tick "Transcript" ckeckbox (no idea what that means). Without "Transcript" checked program fails to connect to server (no debug info shown) with GPF exception from time to time.

U++: latest SVN build
OS: WinXP SP2

Yes, you're right. I've changed the "transcript" to "enable logging". I hope this makes sense. As to the General page fault you mention, I've updated the code. It should be fixed now...
I would be grateful if you could test the new source.

Forlano wrote on Mon, 22 September 2008 22:44
The timed out error disappeared after I used the correct IP Embarassed , but no emails were retrieved. Tested with MSC9 with the same null result.
I saw that it is difficult (impossible) to exit the program when it is running and the program crush if I press two times read email.

Yes, it is because the socket is currently in blocking mode. I am going to make it a nonblocking socket but, frankly, I'm a little bit troubled with U++ Socket class since there is no documentation about it. Neither the MT forum topics nor the Httpcli/srv examples helped me much... If possible, I don't want to rewrite the whole code in pure Win32 and X11, so can someone briefly explain the necessary steps to be taken in creating nonblocking sockets with U++? Also, how can I use that SocketEvent class (which seems to be defined only under Win32)?

captainc wrote on Mon, 22 September 2008 23:08
What are your plans for this? It would be great to work with a single Upp SSL package that could be used for many things like web, ftp, mail, etc... Or will they all be specific implementations anyway?

Well It's really a good idea to have a single SSL wrapper. But it also might be very time consuming. OTOH, I can give it a try (but I have a lot of things waiting to be finished on my TODO list.That's why I wrote "not yet". The WCS classes and this WebMail package is on top of my list now. But again, it is worth trying).

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Mindtraveller on Sat, 27 Sep 2008 20:02:40 GMT
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Tested new sources. Seems to work without problem. Headers are fetched OK. Messages don`t seem to be fetched at all, even with "Download full messages" ticked.

Also, I`ll try to help with U++ socket classes as soon I have spare time.

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Sc0rch on Mon, 13 Apr 2009 17:41:17 GMT
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What about smtp? I'll need to send a simple mail with one or two files. So I'm thinking about the more simple and fast variants. Can you help me with a simple code-snippet or advice?

It will be great, if you could show a "conversation" with the socket, it will help to realize how to send a mail with attachments successfully. And I don't know much more about MIME format, and about free tools for it, >_<.

And I'm going to search the answers myself too, yeh, of cause.

Best regards, great man, and sorry for my English,
Anton.

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Oblivion on Mon, 13 Apr 2009 21:57:45 GMT
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Quote:
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It will be great, if you could show a "conversation" with the socket, it will help to realize how to send a mail with attachments successfully. And I don't know much more about MIME format, and about free tools for it, >_<.

And I'm going to search the answers myself too, yeh, of cause.

Best regards, great man, and sorry for my English,
Anton.

Hello Anton,

Actually, the code of this "yet-to-be-finished" (I'm sorry, I'm way too busy nowadays... I didn't have the time to finish it) class is based upon the original U++ SmtpMail class. So you should check "SMTPMail::Send()" method in Web/smtp.h. It will give you an idea about the socket "transaction" (or conversation, if you will). It works almost like my unfinished POP3Mail class.

Smtp example code should be something like this:

```
#ifndef _SmtpExample_SmtpExample_h
#define _SmtpExample_SmtpExample_h

#include <CtrlLib/CtrlLib.h>
#include <Web/Web.h>
using namespace Upp;

#define LAYOUTFILE <SmtpExample/SmtpExample.lay>
#include <CtrlCore/lay.h>

class SmtpExample : public WithSmtpExampleLayout<TopWindow> {
public:
 typedef SmtpExample CLASSNAME;
 SmtpExample();

 SmtpMail smtp;
```

```
 void Send();
};

SmtpExample::SmtpExample()
{
 CtrlLayout(*this, "Smtp Example");

 smtp.Transcript();
 smtp.Subject("Smtp Example");
 smtp.Port(25);
 smtp.Host("smtp.host.com");
 smtp.Auth("username", "password");
 smtp.From("from");
 smtp.To("to");
 smtp.AttachFile("filename", mimetype = 0);
 SendButton << THISBACK(Send);

}

void SmtpExample::Send()
{
 smtp.Send();
 LogConsole.Set(smtp.GetTranscript());
}


GUI_APP_MAIN
{
 SmtpExample().Run();
}
```

But beware, this code probably won't work; because most of the servers require at least a TLS encryption/session after the first "HELO" message.

For more information on SMTP protocol you should read RFC 821 and RFC 5321.

You can read and search POP3/SMTP/MIME/TLS/SLL etc. RFC documents at:

http://www.rfc-editor.org/rfcsearch.html

I hope that this will give you an idea on where to start.

Regards.

Oblivion

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Sc0rch on Wed, 15 Apr 2009 11:46:09 GMT
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You solved my problem. Thank you.

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by tojocky on Wed, 25 Aug 2010 07:01:27 GMT
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Hello!

What news about POP/SMPT/IMAP?

Is it the latest version?
If not where can I download the latest version?
I'm interested in this and want to test and improve if will need.

Thank you in advance!
Ion.

Oblivion wrote on Mon, 22 September 2008 18:05Hi,

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Regards.

Subject: Re: WebMail package (POP/SMPT/IMAP)
Posted by Oblivion on Wed, 25 Aug 2010 14:53:33 GMT
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tojocky wrote on Wed, 25 August 2010 10:01Hello!

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Regards.

Hello tojocky

Unfortunately, I have no spare time to develop this project all by myself (I have a job, and a PhD thesis to complete). But if someone will volunteer to takes over this project or help me, I will gladly help him and contribute to it

Recently I have added a basic and simple SSL & TLS support to the MailSocket class, and it seems to be working fine. Please feel free to modify, improve and maintain the package. If you would like to further develop WebMail class, there are some points you should know:

1. MailSocket class is a blocking socket and it should be made nonblocking.

2. POP3Mail class is almost complete. But, as always, it could be improved.

3. EMail parser class is only a scratch. It needs to be developed.

4. There is no SMTPMail class yet, but once MailSocket class is complete (made nonblocking), it should be relatively easy to create one.

One more thing: Since WebMail has basic SSL/TLS support, you will need OpenSSL packages to get the package compiled.

On Windows, you can download it from http://www.openssl.org

On Linux (on *buntu distros, at least), you should install "libssl-dev" package.

Regards

File Attachments

1) WebMail Package and Example Code.zip, downloaded 518 times