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Published: Wednesday, July 26, 2006

# Sending Email in ASP.NET 2.0

Message Board

By Scott Mitchell

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#### Introduction

Email serves as a ubiquitous, asynchronous notification and information distribution system. Not sidevelopment scenarios where server-side code needs to generate an email and scuttle it off to the may be destined for a user of the website, informing them of their newly created user account, repassword, or emailing them an invoice. Or it may be destined for a web developer or site administration and unhandled exception that just transpired or user feedback.

Fortunately, ASP.NET makes sending email a breeze. The .NET Framework version 1.x included a System.Web.Mail class that allowed programmatically sending an email with a few scant lines of these classes still exist in the .NET Framework version 2.0, they have been deprecated in favor or in the <a href="System.Net.Mail namespace">System.Net.Mail namespace</a>. (For an article on sending email in ASP.NET version 1.x, see 1.x Web Page or consult <a href="https://www.SystemWebMail.com">www.SystemWebMail.com</a>.)

In this article we'll look at the classes in the System.Net.Mail namespace and see how to send a page's code-behind class. We'll also look at specifying relay server information in Web.config and used in some of the built-in ASP.NET server controls for sending emails (such as when a user creat password reminder/reset). Read on to learn more!

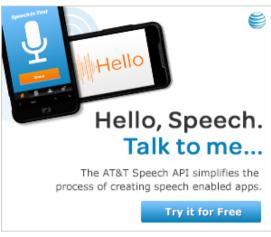
After reading this article, be sure to check out <u>Sending Email in ASP.NET 2.0: HTML-Form Attachments</u>, and <u>Gracefully Handling SMTP Exceptions</u>, where we'll look at sending HTM emails with attachments, and gracefully handling SMTP exceptions! Then mosey over to ASP.NET 2.0: Reply-To, Priority, and Read Receipts for even more great email content.

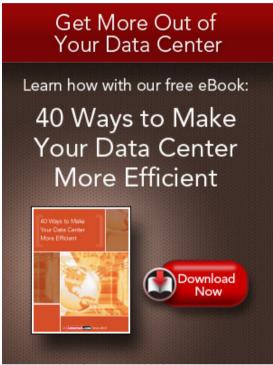
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## Exploring the Classes in the System. Net. Mail Namespace

There are 16 different classes in the System.Net.Mail namespace, all related to send email to a Protocol (SMTP) server for delivery. The two core classes in this namespace are:

- MailMessage represents an email message; has properties like From, To, Subject, Body
- SmtpClient sends a specified MailMessage instance to a specified SMTP server.

When sending an email from an ASP.NET 2.0 page you will, typically:

- 1. Create a MailMessage object
- 2. Assign its properties
- 3. Create an instance of the  ${\tt SmtpClient}$  class
- 4. Specify details about the SMTP server to use (if they're not already specified within Web.cc
- 5. Send the MailMessage via the SmtpClient object's Send method

Steps 1 and 2 may be bypassed as the SmtpClient class's Send method can accept either a Mail representing the from, to, subject, and body contents of the email message.

The System.Net.Mail namespace's other classes allow for more advanced email functionality. The to add attachments to an email message, to embed objects within an email, to specify SMTP serve and Exception-derived classes for handling SMTP-specific exceptions. We'll examine using some advanced scenarios in future articles.

#### **Providing the SMTP Server's Details**

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When sending an email to a friend from Outlook or GMail, the email program establishes a conne sends the contents of the email message, along with information such as the date the email was  $\alpha$  format (text or HTML, for example), the recipient(s), and so on. The relay server accepts the me recipient's SMTP server and sends the message. Once the message has been delivered, the recipi time, pull down the message using a different protocol (such as  $\underline{IMAP}$  or  $\underline{POP3}$ ).

Therefore, to send an email from an ASP.NET page we need to provide the <code>SmtpClient</code> class with server. Along with the hostname of the relay server, you can specify the port (typically port 25 is when communicating your email message contents to the relay server, and authentication creder if you have a local SMTP service installed on your web server, it may periodically monitor a partic any messages that appear in that directory. You can configure whether the <code>SmtpClient</code> class related separate relay server or if it drops it off in a specified pickup directory through the <code>DeliveryMeth</code>

The relay server information used by the SmtpClient class can be specified programmatically, the properties, or can be centralized in Web.config. To use the Web.config approach, add a <system <configuration > element. Then, add a <a href="mailSettings"><a href="mailSettings"

```
<configuration>
  <!-- Add the email settings to the <system.net> element -->
  <system.net>
    <mailSettings>
      <smtp>
        <network
             host="relayServerHostname"
             port="portNumber"
             userName="username"
             password="password" />
      </smtp>
    </mailSettings>
  </system.net>
  <system.web>
  </system.web>
</configuration>
```

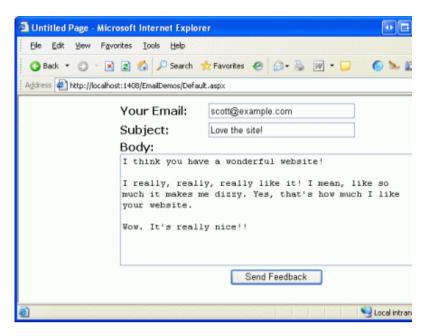
The host attribute contains the *relayServerHostname*. If you are using an external relay server, be something like <code>smtp.yourisp.com</code>. If the relay server's port number is something other than through the <code>port</code> attribute. Most external relay servers require authentication of some sort (in or spammers from sending their garbage through the relay). The <code>userName</code> and <code>password</code> attributes where username/password authentication is needed.

Only a subset of the SmtpClient properties can be specified through settings in Web.config. To opposition of the SmtpClient properties - EnableSsl, Timeout, and so on - set them programmatically when sending the emain steps examined earlier in this article).

## Sending an Administrator Email Through a Feedback Web Page

To illustrate sending an email using the MailMessage and SmtpClient classes, I've created a sim this page the user is prompted for their email address, the subject of their feedback, and their fee

```
<b>Your Email:</b>
     <asp:TextBox runat="server" ID="UsersEmail" Columns="30"></asp:TextI
   <b>Subject:</b>
     <asp:TextBox runat="server" ID="Subject" Columns="30"></asp:TextBox>
   <b>Body:</b><br />
        <asp:TextBox runat="server" ID="Body" TextMode="MultiLine" Columns='</pre>
</asp:TextBox>
```



Once the user has supplied the feedback information and clicked the "Send Feedback" button, a p Click event fires. Inside the event handler, a MailMessage object is created and its To, From, St set according to the information provided by the user. With the MailMessage object created and email is then sent through the SmtpClient class's Send method.

Protected Sub SendEmail\_Click(ByVal sender As Object, ByVal e As System.EventArg

```
'!!! UPDATE THIS VALUE TO YOUR EMAIL ADDRESS
Const ToAddress As String = "you@youremail.com"

'(1) Create the MailMessage instance
Dim mm As New MailMessage(UsersEmail.Text, ToAddress)

'(2) Assign the MailMessage's properties
mm.Subject = Subject.Text
mm.Body = Body.Text
mm.IsBodyHtml = False
```

'(4) Send the MailMessage (will use the Web.config settings) smtp.Send(mm)
End Sub

'(3) Create the SmtpClient object Dim smtp As New SmtpClient

SendEmail.Click

We didn't need to set any of the SmtpClient class's properties here in code because they have be (download the complete code at the end of this article to run this application on your computer).



#### Conclusion

Along with a plethora of other improvements from ASP.NET 1.x, the email sending capabilities in and moved to a new namespace, <code>System.Net.Mail</code>. In 2.0 the relay server settings can easily be code and moved into the <code>Web.config</code> file, as we saw in this example. Moreover, there's better su authentication. Future articles will explore more advanced email scenarios, such as: crafting HTM attachments, embedding objects within the email body, handling SMTP/relay server-related exce

See <u>Sending Email in ASP.NET 2.0: HTML-Formatted Emails, Attachments, and Graceful Exceptions</u> for a look at sending HTML-formatted emails, emails with attachments, and SMTP exceptions...

#### Happy Programming!

By Scott Mitchell

#### **Attachments**

• Download the complete code samples examined in this article (in ZIP format)

#### **Suggested Readings**

- Sending Email with System.Net.Mail (includes a C# example)
- www.SystemNetMail.com (a great set of FAQs and samples for sending email using the System
- Sending Email in ASP.NET 2.0: HTML-Formatted Emails, Attachments, and Gracefully Handling
- Sending Email in ASP.NET 2.0: Reply-To, Priority, and Read Receipts

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