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1  #!/usr/bin/env python
2
3  import datetime
4
5  from smtplib import SMTP
6  from smtplib import SMTP_SSL
7
8  import email
9  import email.mime.application
10 import email.mime.text
11
12 class smtpSender:
13
14     # Method = plain, SSL, TLS
15
16     default_port = {
17         'SSL': 465,
18         'TLS': 587,
19         'plain': 25
20     }
21
22     def __init__(self, server_addr=None, server_port=None, \
23                 username=None, password=None, \
24                 method='plain'):
25
26         self.server_addr = server_addr
27         self.server_port = server_port
28
29         self.username = username
30         self.password = password
31
32         self.method = method
33
34         if method not in self.default_port:
35             raise TypeError('Method not supported')
36
37         pass
38
39     def send(self, from_addr, to_addr, subject='', text='', attachments=[]):
40
41         # Check the port
42         if self.server_port is None:
43             self.server_port = self.default_port[self.method]
44
45         # Pick the correct class
46         if self.method == 'SSL':
47             smtp = SMTP_SSL(self.server_addr, self.server_port)
48         else:
49             smtp = SMTP(self.server_addr, self.server_port)
50
51         smtp.set_debuglevel(1) # Debug?
52
53         # Do specific tasks to initialize
54         if self.method == 'TLS':
55             smtp.ehlo()
56             smtp.starttls()
57
58         if self.username is not None:
59             smtp.login(self.username, self.password)
60
61         # Build the message
62
63         if len(attachments) > 0:
64             msg = email.mime.Multipart.MIMEMultipart()
65             msg.attach(email.mime.Text.MIMEText(text))
66
67             for filename in attachments:
68                 att = email.mime.application.MIMEApplication(file(filename).read())
69                 att.add_header('Content-Disposition', 'attachment', filename=filename)

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70         msg.attach(att)
71     else:
72         msg = email.mime.Text.MIMEText(text)
73
74     msg['Subject'] = subject
75     msg['From'] = from_addr
76     msg['To'] = ','.join(to_addr)
77
78     # Send
79     smtp.sendmail(from_addr, to_addr, msg.as_string())
80
81     # Close the connection
82     smtp.close()
83
84
85 # -----
86
87
88
89 if __name__ == "__main__":
90
91     # -----
92     # Common settings - Example for GMAIL
93
94     server_addr = "smtp.gmail.com"
95     server_port = 587
96     username = "your_email_address@gmail.com"
97     password = "your_password"
98     method = 'TLS'
99
100    # -----
101    # Test settings
102
103    from_addr = "sender@gmail.com"
104    to_addr = ["receiver@blabla.com"]
105
106    subj = "Test"
107    message_txt = "Hello! " + datetime.datetime.now().strftime( "%d/%m/%Y %H:%M" )
108
109    # -----
110    # Send the message
111
112    sender = smtpSender(server_addr, server_port, username, password, method)
113
114    # Just text!
115    sender.send(from_addr, to_addr, subj, message_txt)
116
117    # With attachment!
118    sender.send(from_addr, to_addr, subj, message_txt, ['attachment.txt'])
119

```