06/02/2020 python file 1.py

```
1 # Source: Oppia - https://github.com/oppia/oppia - an online learning tool
   that enables anyone to easily create and share interactive activities
 2
 3
   """Provides email services."""
 4
 5 from __future__ import absolute_import # pylint: disable=import-only-modules
  from __future__ import unicode_literals # pylint: disable=import-only-
   modules
 7
 8 import feconf
9 import python_utils
10
11 from google.appengine.api import mail
12
13
14 def get_incoming_email_address(reply_to_id):
       """Gets the incoming email address. The client is responsible for
15
   recording
16
       any audit logs.
17
       Args:
           reply_to_id: str. The unique id of the sender.
18
19
       Returns:
           str. The email address of the sender.
20
21
       return 'reply+%s@%s' % (reply_to_id, feconf.INCOMING_EMAILS_DOMAIN_NAME)
22
23
24
25 def _is_email_valid(email_address):
26    """Determines whether an email address is invalid.
27
           email_address: str. Email address to check.
28
29
       Returns:
           bool. Whether specified email address is valid.
30
31
       if not isinstance(email_address, python_utils.BASESTRING):
32
33
           return False
34
       stripped_address = email_address.strip()
35
       if not stripped_address:
36
37
           return False
38
39
       return True
40
41
       _is_sender_email_valid(sender_email):
42 def
       """Gets the sender_email address and validates it is of the form
43
44
       'SENDER NAME <SENDER EMAIL ADDRESS>'.
45
       Args:
           sender_email: str. The email address of the sender.
46
47
       Returns:
           bool. Whether the sender_email is valid.
48
49
50
       if not _is_email_valid(sender_email):
51
           return False
52
       split_sender_email = sender_email.split(' ')
53
       if len(split_sender_email) < 2:</pre>
54
55
           return False
56
       email_address = split_sender_email[-1]
```

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         if not email_address.startswith('<') or not email_address.endswith('>'):
  58
  59
             return False
  60
  61
         return True
  62
  63
  64 def send mail(
             sender_email, recipient_email, subject, plaintext_body, html_body,
  65
             bcc admin=False, reply to id=None):
  66
         """Sends an email. The client is responsible for recording any audit
  67
     logs.
         In general this function should only be called from
  68
         email_manager._send_email().
  69
  70
         Args:
  71
             sender email: str. The email address of the sender. This should be in
  72
                 the form 'SENDER_NAME <SENDER_EMAIL_ADDRESS>'.
             recipient_email: str. The email address of the recipient.
  73
             subject: str. The subject line of the email.
  74
  75
             plaintext_body: str. The plaintext body of the email.
             html body: str. The HTML body of the email. Must fit in a datastore
  76
  77
                 entity.
             bcc admin: bool. Whether to bcc feconf.ADMIN EMAIL ADDRESS on the
  78
     email.
             reply_to_id: str or None. The unique reply-to id used in reply-to
  79
     email
                 sent to recipient.
  80
  81
         Raises:
             ValueError: If 'sender_email' or 'recipient_email' is invalid,
     according
  83
                 to App Engine.
             Exception: If the configuration in feconf.py forbids emails from
  84
     being
  85
                 sent.
  86
  87
         if not feconf.CAN_SEND_EMAILS:
  88
             raise Exception('This app cannot send emails.')
  89
  90
         if not is email valid(recipient email):
  91
             raise ValueError(
  92
                 'Malformed recipient email address: %s' % recipient_email)
  93
         if not _is_sender_email_valid(sender_email):
  94
  95
             raise ValueError(
  96
                 'Malformed sender email address: %s' % sender_email)
  97
  98
         msg = mail.EmailMessage(
             sender=sender email, to=recipient email,
  99
             subject=subject, body=plaintext_body, html=html body)
 100
 101
         if bcc admin:
             msg.bcc = [feconf.ADMIN EMAIL ADDRESS]
102
103
         if reply to id:
104
             msg.reply_to = get_incoming_email_address(reply_to_id)
105
         # Send message.
 106
         msg.send()
107
108
109
110 def send bulk mail(
             sender_email, recipient_emails, subject, plaintext_body, html_body):
111
```

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```
"""Sends an email. The client is responsible for recording any audit
112
    logs.
113
        In general this function should only be called from
114
        email manager. send email().
115
            sender_email: str. The email address of the sender. This should be in
116
                the form 'SENDER_NAME <SENDER_EMAIL_ADDRESS>'.
117
118
            recipient_emails: list(str). The list of recipients' email addresses.
            subject: str. The subject line of the email.
119
            plaintext_body: str. The plaintext body of the email.
120
            html body: str. The HTML body of the email. Must fit in a datastore
121
122
                entity.
123
        Raises:
124
            ValueError: If 'sender_email' or 'recipient_email' is invalid,
    according
125
                to App Engine.
            Exception: If the configuration in feconf.py forbids emails from
126
    being
127
                sent.
        . . . .
128
129
        if not feconf.CAN SEND EMAILS:
130
            raise Exception('This app cannot send emails.')
131
        for recipient_email in recipient_emails:
132
133
            if not is email valid(recipient email):
                raise ValueError(
134
                    'Malformed recipient email address: %s' % recipient_email)
135
136
        if not _is_sender_email_valid(sender_email):
137
            raise ValueError(
138
                'Malformed sender email address: %s' % sender email)
139
140
        for recipient_email in recipient_emails:
141
142
            mail.send mail(
                sender_email, recipient_email, subject, plaintext_body,
143
144
                html=html body)
```