SENDGRID INTEGRATION WITH PYTHON

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Project Name	NUTRITION ASSISTANT APPLICATION

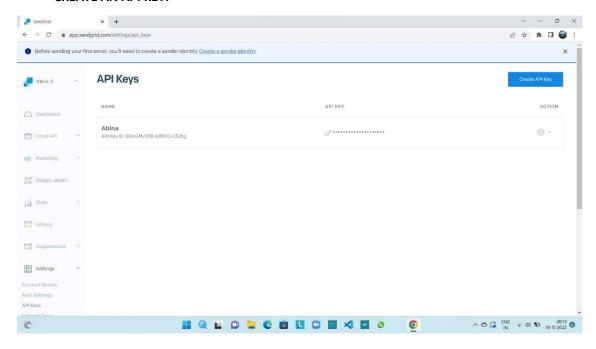
STEP 1:

REQUIREMENTS:

Python 2.6,2.7,3.4 or 3.5.

STEP 2:

CREATE AN API KEY:



STEP 3:

Install

PAKAGE:> pip installsendgrid

STEP 4:

SEND EMAIL

SENDGRID PYTHON CODE:

```
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail

message = Mail(
from email='from email@example.com',
to emails='to@example.com',
subject='Sending with Twilio SendGrid is Fun',
html content='<strong>and easy to do anywhere, even with
Python</strong>')
try:
sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
response = sg.send(message)
print(response.status_code)
print(response.body)
print(response.headers)
except Exception as e:
print(e.message)
```

HTTP CLIENT PROGRAM:

```
1 """HTTP Client library"""
2 import json
3 import logging
4 from .exceptions import handle_error
5
6 try:
7  # Python 3
8  import urllib.request as urllib
9  from urllib.parse import urlencode
10  from urllib.error import HTTPError
11 except ImportError:
12  # Python 2
```

```
self._status_code = response.getcode()
self._body = response.read()
```

```
self.request_headers = request_headers or ()
self._version = version
parameters
          :type query_params: dictionary
           if self.append_slash:
```

```
"""Make a new Client object

149

150 :param name: Name of the url segment

151 :type name: string

152 :return: A Client object

153 """

154 url_path = self._url_path + [name] if name else

155 return Client (host=self.host,

156 version=self.version,

157 request headers=self.request_headers,

158 url_path=url_path,

159 append_elash=self.append_slash,

160 timeout=self.timeout)

161

162 def _make_request(self, opener, request, timeout=None):

163 """Make the API call and return the response. This is

165 separated into

164 it's own function, so we can mock it easily for testing.

165

166 :param opener:

167 :type opener:

168 :param request: url payload to request

169 :type request: urllib.Request object

170 :param timeout: timeout value or None

171 :type timeout: float

172 :return: urllib response

173 """

174 timeout = timeout or self.timeout

175 try:

176 return opener.open(request, timeout=timeout)

177 except NTTPETFOR as err:

178 exc = handle_error(err)

179 exc._cause_= None

180 logger.debug('(method) Response: (status)
```

```
243
   data = json.dumps(request_body).encode('utf-8')
                           _logger.debug('(method) Request: (url)'.format(
    method=method,
                           response = Response(
self._make_request(opener, request,
                                method=method,
status=response.status_code,
```