SENDGRID INTEGRATION WITH PYTHON

Team ID	PNT2022TMID21261
Project Name	Personal Expense Tracker Application

1) Install Package Sendgrid

pip install sendgrid

```
Command Prompt

Users\shriv>pip install sendgrid
aulting to user installation because normal site-packages is not writeable
uirement already satisfied: sendgrid in c:\users\shriv\appdata\roaming\python\python310\site-packages (6.9.7)
uirement already satisfied: starkbank-ecdsa>=2.0.1 in c:\users\shriv\appdata\roaming\python\python310\site-packages (from sendgrid) (2.2.0)
uirement already satisfied: python-http-client>=3.2.1 in c:\users\shriv\appdata\roaming\python\python310\site-packages (from sendgrid) (3.3.7)
```

2) Permanently set the environment variable (accessible in all subsequent CLI sessions)

```
setx SENDGRID_API_KEY "YOUR_API_KEY"
```

3) Temporarily set the environment variable (accessible only during the current CLI session)

```
set SENDGRID_API_KEY=YOUR_API_KEY
```

Code:

1.Web_API_Usage_With_Fluent_Interface.py:

```python
import os
from sendgrid import SendGridAPIClient

sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
response = sg.client.suppression.bounces.get()
print(response.status_code)
print(response.body)
print(response.headers)
```

2. Web_API_Usage_Without_Fluent_Interface.py:

```
import os
from sendgrid import SendGridAPIClient

sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
response = sg.client._('suppression/bounces').get()
print(response.status_code)
print(response.body)
print(response.headers)
```

3. Sendgrid integration with py.txt

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


message = Mail(
    from_email="sit19cs102@sairamtap.edu.in",
    to_emails="receiver@gmail.com",
    subject="test",
    html_content="<p>hi</hi>"
)

try:
    sg = SendGridAPIClient("XXXX API key XXXXXX")
    response = sg.send(message)
except Exception as e:
    print(e)
```

4. With_Mail_Helper_Class.py

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

```python
message = Mail(
    from_email='sit19cs102@sairamtap.edu.in',
    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(str(e))
```

5. Without_Mail_Helper_Class.py

```python
import os
from sendgrid import SendGridAPIClient

message = {
    'personalizations': [
        {
            'to': [
                {
                    'email': 'test@example.com'
                }
            ],
            'subject': 'Sending with Twilio SendGrid is Fun'
        }
    ],
    'from': {
        'email': 'test@example.com'
    },
    'content': [
```

```python
        {
            'type': 'text/plain',
            'value': 'and easy to do anywhere, even with Python'
        }
    ]
}
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(str(e))
```