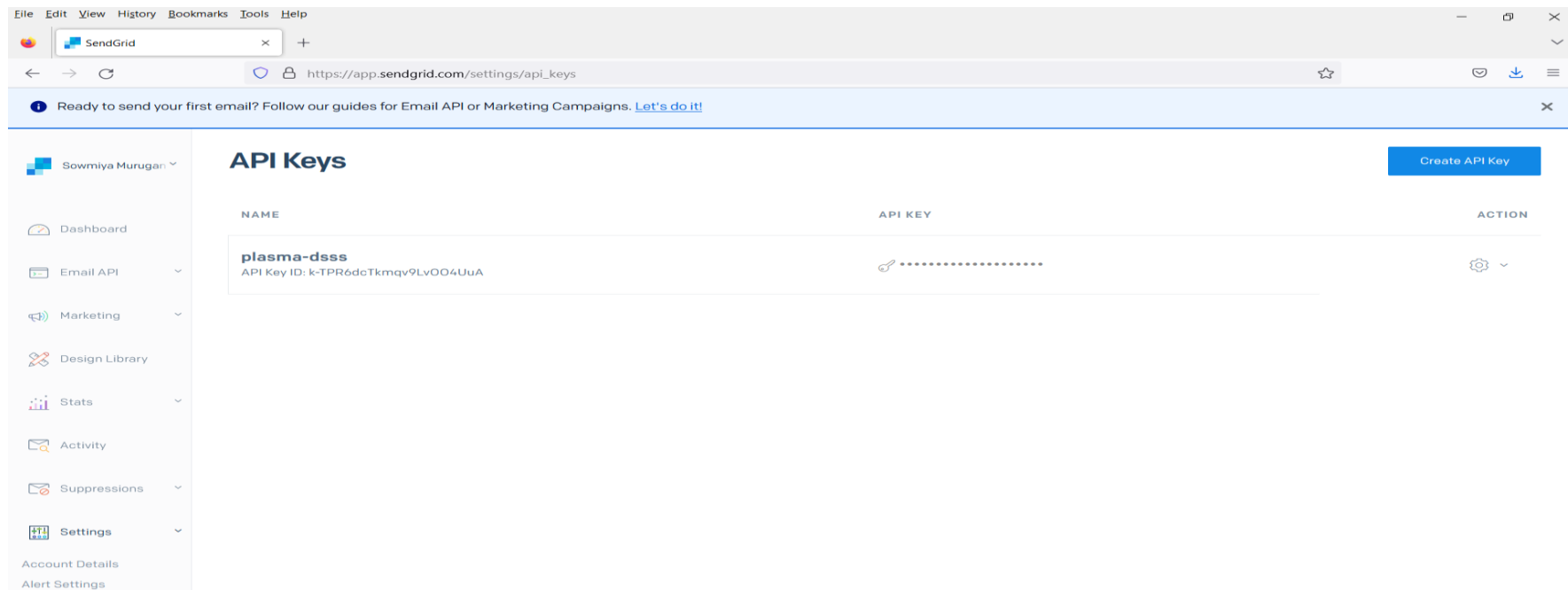


Integrating SendGrid Service

SendGrid Integration With Python Code

Date	03 November 2022
Team ID	PNT2022TMID48200
Project Name	Plasma Donor Application



Creating an API Key



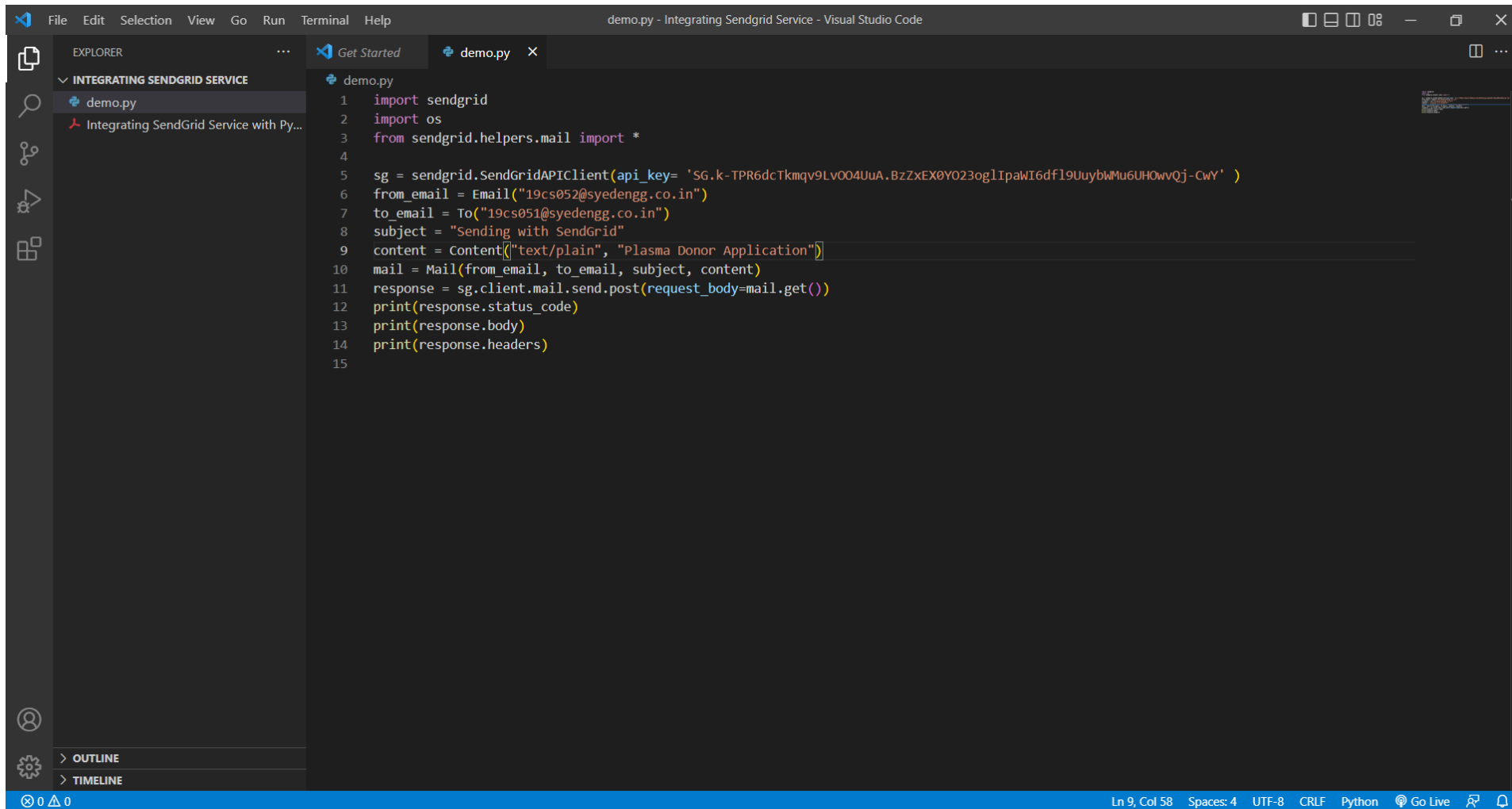
The screenshot shows a web browser window with the SendGrid interface. The address bar displays `https://app.sendgrid.com/settings/api_keys`. A blue notification banner at the top reads: "Ready to send your first email? Follow our guides for Email API or Marketing Campaigns. [Let's do it!](#)".

On the left is a sidebar menu for user "Sowmiya Murugan" with options: Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, and Settings (expanded to show Account Details and Alert Settings).

The main content area is titled "API Keys" and features a "Create API Key" button in the top right. Below the title is a table with the following structure:

NAME	API KEY	ACTION
plasma-dsss API Key ID: k-TPR6dcTkmqv9LvOO4UuA		 ▾

Creating a Virtual Environment “Integrating SendGrid Service” and creating demo.py file with the following code inside the virtual environment



The screenshot shows the Visual Studio Code interface with a file explorer on the left and a code editor in the center. The file explorer shows a folder named "INTEGRATING SENDGRID SERVICE" containing a file named "demo.py". The code editor displays the following Python code:

```
1 import sendgrid
2 import os
3 from sendgrid.helpers.mail import *
4
5 sg = sendgrid.SendGridAPIClient(api_key= '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' )
6 from_email = Email("19cs052@syedengg.co.in")
7 to_email = To("19cs051@syedengg.co.in")
8 subject = "Sending with SendGrid"
9 content = Content("text/plain", "Plasma Donor Application")
10 mail = Mail(from_email, to_email, subject, content)
11 response = sg.client.mail.send.post(request_body=mail.get())
12 print(response.status_code)
13 print(response.body)
14 print(response.headers)
15
```

The status bar at the bottom indicates the current position is Line 9, Column 58, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Python language mode.

Running the python file through the terminal

```
Command Prompt
C:\>cd \Users\msowm\OneDrive\Documents\IBM
C:\Users\msowm\OneDrive\Documents\IBM>cd integrating sendgrid service
C:\Users\msowm\OneDrive\Documents\IBM\Integrating Sendgrid Service>python sendgrid.py
Traceback (most recent call last):
  File "C:\Users\msowm\OneDrive\Documents\IBM\Integrating Sendgrid Service\sendgrid.py", line 1, in <module>
    import sendgrid
  File "C:\Users\msowm\OneDrive\Documents\IBM\Integrating Sendgrid Service\sendgrid.py", line 3, in <module>
    from sendgrid.helpers.mail import *
ModuleNotFoundError: No module named 'sendgrid.helpers'; 'sendgrid' is not a package
C:\Users\msowm\OneDrive\Documents\IBM\Integrating Sendgrid Service>python demo.py
Traceback (most recent call last):
  File "C:\Users\msowm\OneDrive\Documents\IBM\Integrating Sendgrid Service\demo.py", line 1, in <module>
    import sendgrid
ModuleNotFoundError: No module named 'sendgrid'
C:\Users\msowm\OneDrive\Documents\IBM\Integrating Sendgrid Service>cd/
C:\>cd Downloads
The system cannot find the path specified.
C:\>cd Downloads
The system cannot find the path specified.
C:\>cd \Users\msowm
C:\Users\msowm>pip install sendgrid
Collecting sendgrid
  Downloading sendgrid-6.9.7-py3-none-any.whl (101 kB)
    ----- 101.1/101.1 kB 8.0 kB/s eta 0:00:00
Collecting python-http-client>=3.2.1
  Downloading python_http_client-3.3.7-py3-none-any.whl (8.4 kB)
Collecting starkbank-ecdsa>=2.0.1
  Downloading starkbank-ecdsa-2.2.0.tar.gz (14 kB)
  Preparing metadata (setup.py) ... done
Installing collected packages: starkbank-ecdsa, python-http-client, sendgrid
  DEPRECATION: starkbank-ecdsa is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this beha
viour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
  Running setup.py install for starkbank-ecdsa ... done
Successfully installed python-http-client-3.3.7 sendgrid-6.9.7 starkbank-ecdsa-2.2.0

[notice] A new release of pip available: 22.3 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
C:\Users\msowm>
```

Test mail received via Sendgrid

