

Integrating SendGrid Service
SendGrid Integration With Python Code

Date	2 nd November, 2022
Team ID	PNT2022TMID27090
Project Name	Plasma Donor Application

Creating an API Key

← → ↻ app.sendgrid.com/settings/api_keys

Finish your account setup in order to select a paid plan and unlock the full potential of Twilio SendGrid. [Let's do it!](#)

Sharath kumar .R

Dashboard

Email API

Marketing

Design Library

Stats

Activity

Suppressions

Settings

Account Details

API Keys

Create API Key

NAME	API KEY	ACTION
Test1 API Key ID: 6YTeLF_DRPj3gR29itPR6Q	🔑	⚙️ ▾

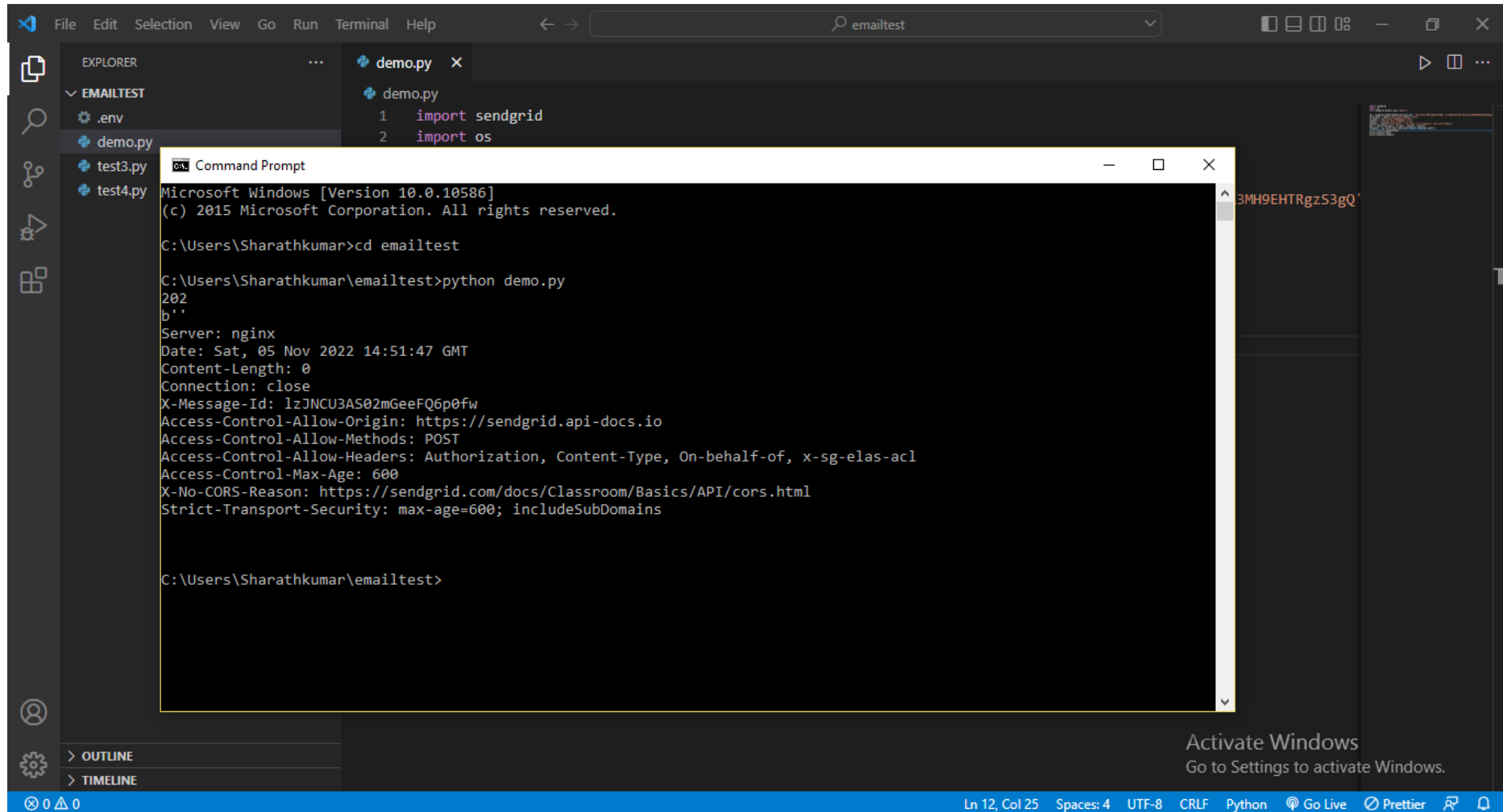
Activate Windows
Go to Settings to activate Windows.

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

```
import sendgrid
import os
from sendgrid.helpers.mail import *

sg = sendgrid.SendGridAPIClient(api_key= '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' )
from_email = Email("chinnukool72@gmail.com")
to_email = To("chinnukool72@gmail.com")
subject = "Sending with SendGrid is Fun"
content = Content("text/plain", "and easy to do anywhere, even with Python")
mail = Mail(from_email, to_email, subject, content)
response = sg.client.mail.send.post(request_body=mail.get())
print(response.status_code)
print(response.body)
print(response.headers)
```

Running the python file through the terminal



The image shows a Visual Studio Code editor window with a file explorer on the left and a terminal window open in the foreground. The file explorer shows a project named 'EMAILTEST' with files '.env', 'demo.py', 'test3.py', and 'test4.py'. The 'demo.py' file is open in the editor, showing two lines of Python code: `import sendgrid` and `import os`. The terminal window, titled 'Command Prompt', shows the following output:

```
Microsoft Windows [Version 10.0.10586]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\Sharathkumar>cd emailtest

C:\Users\Sharathkumar\emailtest>python demo.py
202
b''
Server: nginx
Date: Sat, 05 Nov 2022 14:51:47 GMT
Content-Length: 0
Connection: close
X-Message-Id: lzJNCU3AS02mGeeFQ6p0fw
Access-Control-Allow-Origin: https://sendgrid.api-docs.io
Access-Control-Allow-Methods: POST
Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
Access-Control-Max-Age: 600
X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
Strict-Transport-Security: max-age=600; includeSubDomains

C:\Users\Sharathkumar\emailtest>
```

The status bar at the bottom of the VS Code window shows 'Ln 12, Col 25', 'Spaces: 4', 'UTF-8', 'CRLF', 'Python', 'Go Live', 'Prettier', and a notification icon.

Test mail received via Sendgrid

