

**Integrating SendGrid Service**  
**SendGrid Integration With Python Code**

Date	18 November, 2022
Team ID	PNT2022TMID24120
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

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Design Library

Stats

Activity

Suppressions

Settings

Account Details

## API Keys

Create API Key

NAME	API KEY	ACTION
<b>Test1</b> API Key ID: 6YTeLF_DRPi3gR29itPR6Q	.....	⚙️

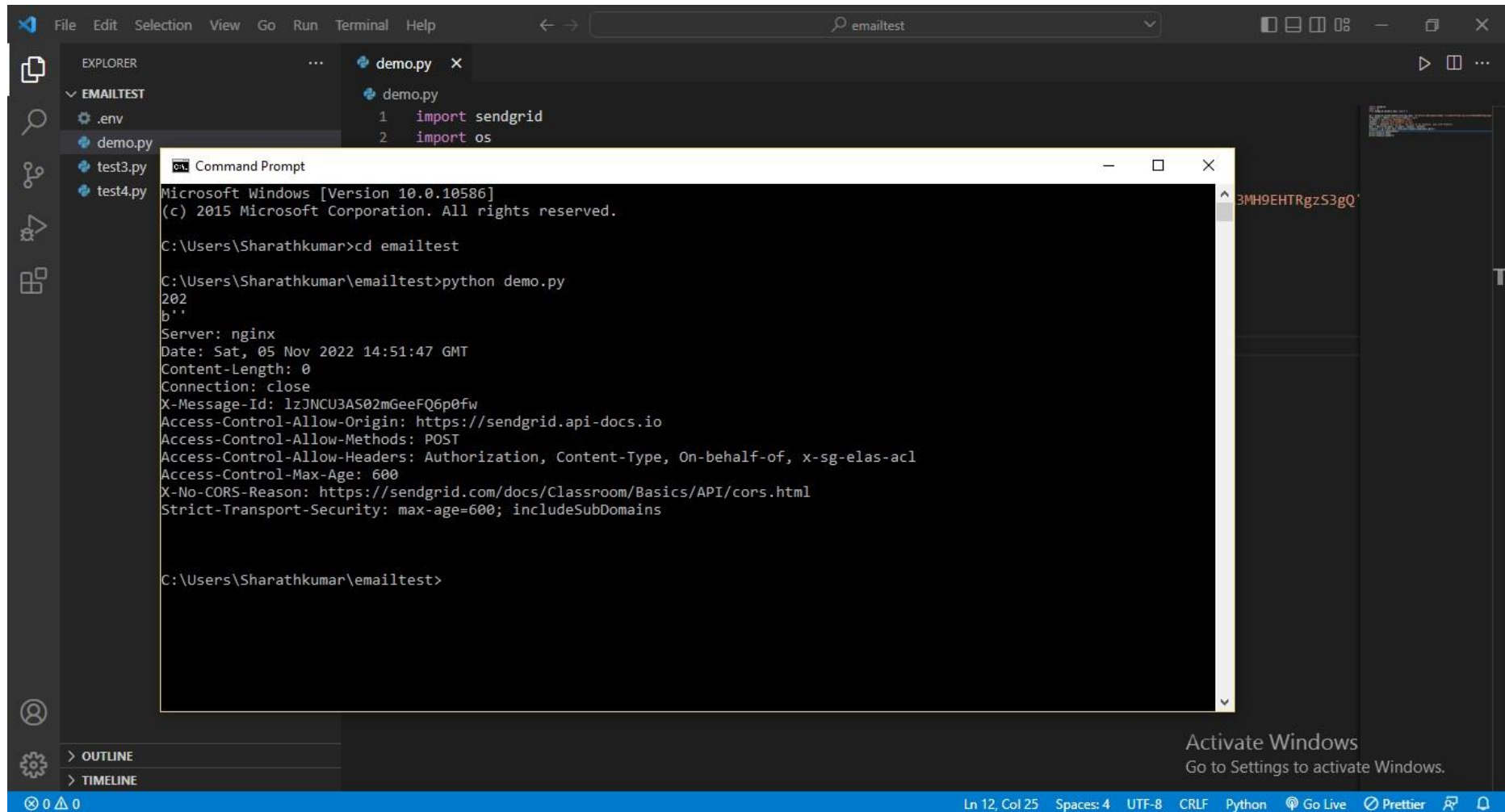
Activate Windows  
Go to Settings to activate Windows.

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= 'SG.6YTeLF_DRP3gR29itPR6Q.-frB9XTVfFJ4Dt_HwL2fb1rDP0A3MH9EHTRgzS3gQ' )
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 screenshot shows the Visual Studio Code interface with a file explorer on the left, a code editor in the center, and a terminal window at the bottom. The file explorer shows a project named 'EMAILTEST' with files '.env', 'demo.py', 'test3.py', and 'test4.py'. The code editor displays the content of 'demo.py', which contains two lines of Python code: `import sendgrid` and `import os`. The terminal window, titled 'Command Prompt', shows the execution of the Python script. It displays the current directory, the command to run the script, and the output, which includes a 202 status code, a blank body, and various HTTP headers such as 'Server: nginx', 'Date: Sat, 05 Nov 2022 14:51:47 GMT', and 'Access-Control-Allow-Origin: https://sendgrid.api-docs.io'.

```
File Edit Selection View Go Run Terminal Help
demo.py x
demo.py
1 import sendgrid
2 import os

Command Prompt
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: 1zJNCU3AS02mGeeFQ6p0fw
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>
```

Activate Windows  
Go to Settings to activate Windows.

Ln 12, Col 25 Spaces: 4 UTF-8 CRLF Python Go Live Prettier

## Test mail received via Sendgrid

