

Integrating SendGrid Service
SendGrid Integration With Python Code

Date	08 November, 2022
Team ID	PNT2022TMID27128
Project Name	Plasma Donor Application

Creating an API Key

The screenshot shows a web browser window with the SendGrid API Keys management interface. The browser's address bar shows the URL `app.sendgrid.com/settings/api_keys`. The page title is "API Keys". In the top right corner, there is a blue button labeled "Create API Key".

On the left side, there is a sidebar menu with the following items: "Aswini Chittibabu" (with a dropdown arrow), "Dashboard", "Email API" (with a dropdown arrow), "Marketing" (with a dropdown arrow), "Design Library", "Stats" (with a dropdown arrow), "Activity", "Suppressions" (with a dropdown arrow), "Settings" (with a dropdown arrow), "Account Details", and "Alert Settings".

The main content area displays a table with the following columns: "NAME", "API KEY", and "ACTION". There is one row in the table with the following data:

NAME	API KEY	ACTION
plasma donor	⚙️

The "NAME" cell contains the text "plasma donor" and has an orange border. The "API KEY" cell contains a series of dots, indicating a hidden key. The "ACTION" cell contains a gear icon, indicating settings.

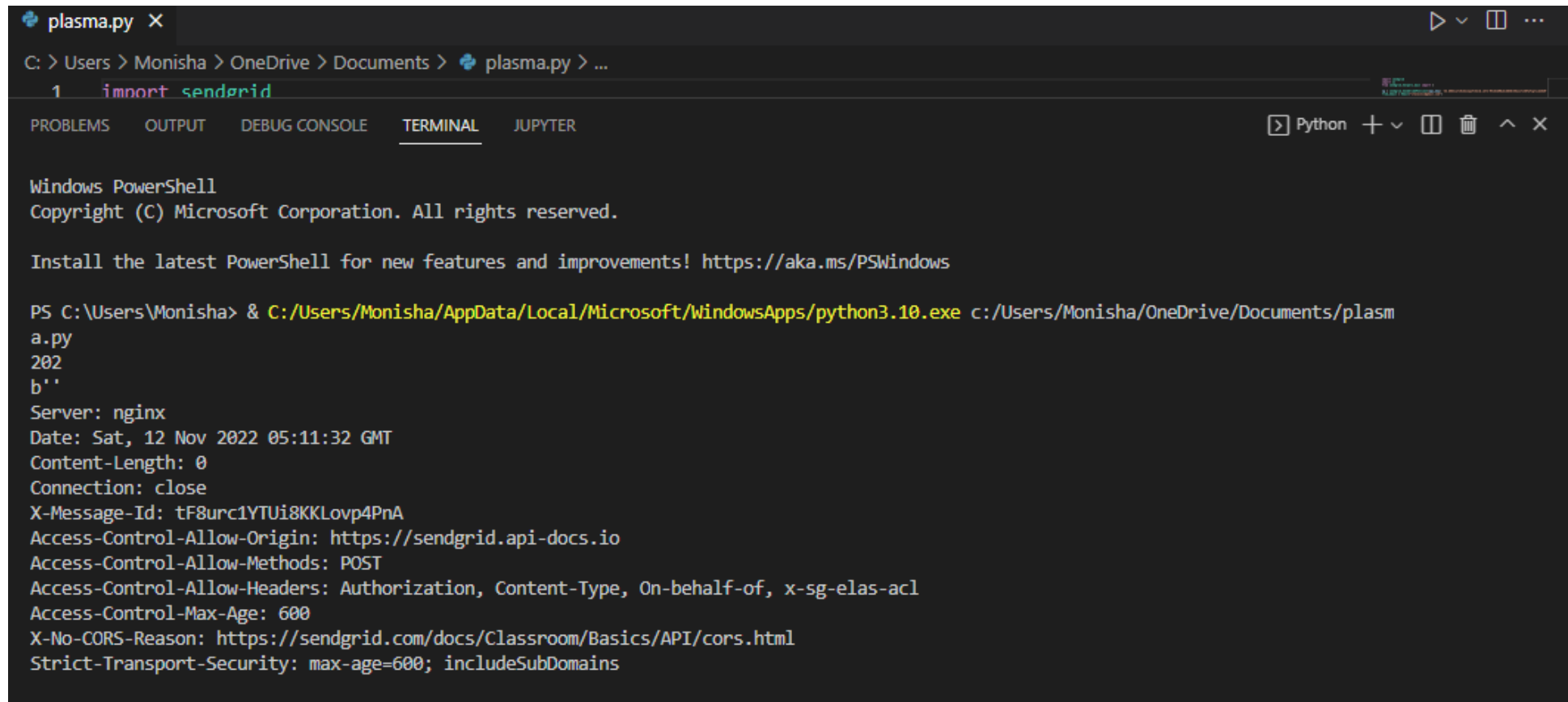
At the bottom of the screen, there is a Windows taskbar showing the system tray with the date and time "10:44 12-11-2022".

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

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

sg = sendgrid.SendGridAPIClient(api_key)
from_email = Email("itaswinic@gmail.com")
to_email = To("aswinichittibabu05@gmail.com")
subject = "Your little efforts can give others second chances to live life."
content = Content("text/plain", "Thank you for choosing our plasma donor application for donating plasma. Your account has been created and one step ahead to go, please verify your email ID.")
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)
```

Running the python file through the terminal



The image shows a Visual Studio Code editor window with a file named `plasma.py` open. The file's content is as follows:

```
1 import sendgrid
```

Below the editor, the **TERMINAL** panel is active, displaying the output of running the script. The terminal shows the Windows PowerShell prompt, the command to execute the script using Python 3.10, and the resulting HTTP response headers from the SendGrid API.

```
Windows PowerShell
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PS C:\Users\Monisha> & C:/Users/Monisha/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/Monisha/OneDrive/Documents/plasma.py
202
b''
Server: nginx
Date: Sat, 12 Nov 2022 05:11:32 GMT
Content-Length: 0
Connection: close
X-Message-Id: tF8urc1YTUi8KKLvp4PnA
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
```

Test mail received via SendGrid

