

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

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

## Creating an API Key

The screenshot shows a web browser window with the SendGrid interface. The address bar shows the URL `app.sendgrid.com/settings/api_keys`. A notification banner at the top says, "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 with the user name "Aswini Chittibabu" at the top. Below it are links to Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, and Settings.

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

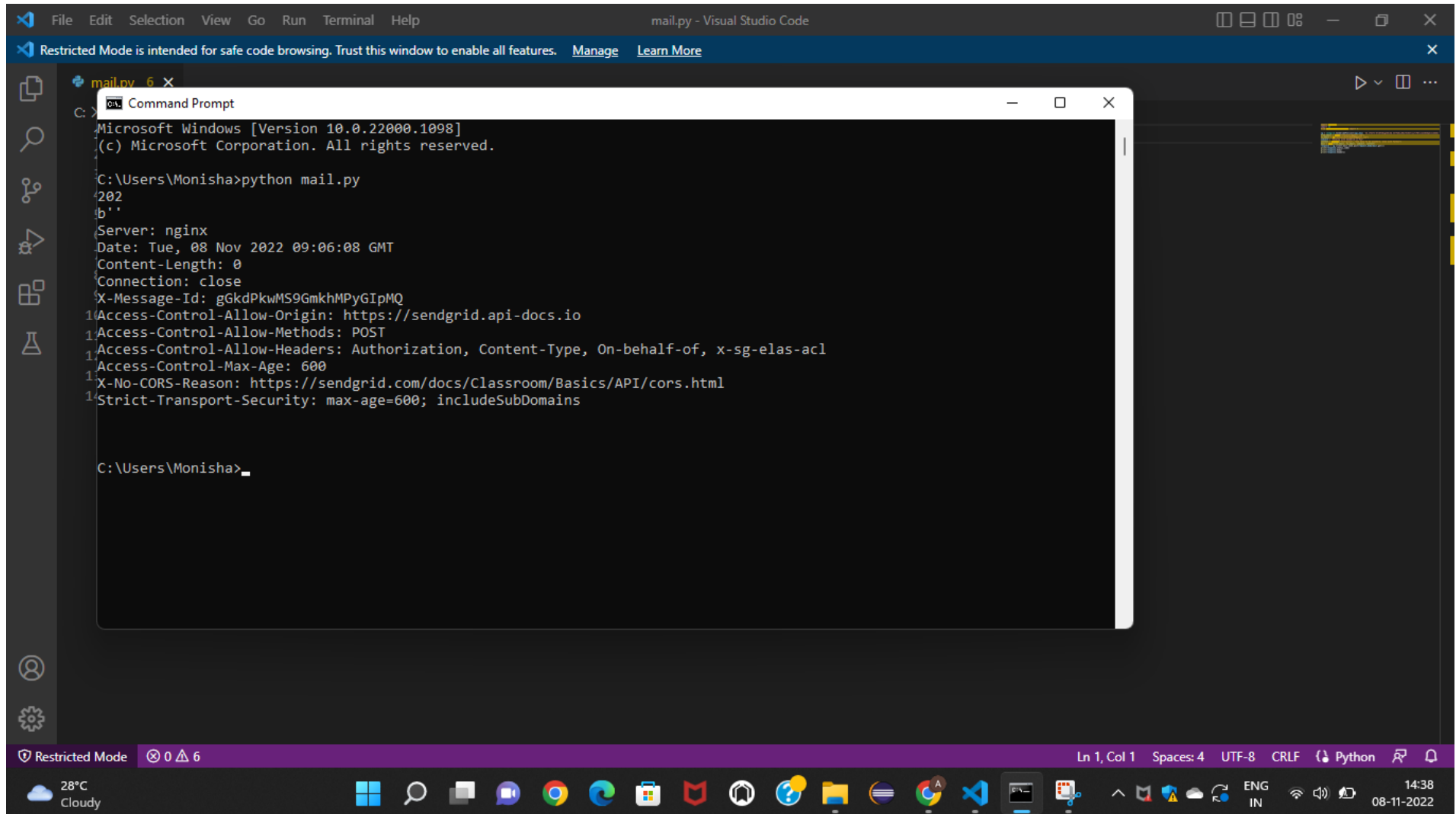
NAME	API KEY	ACTION
<b>mail 1</b> API Key ID: CFGhYh-RTCWFXWug3KOcKQ	.....	▾

The Windows taskbar at the bottom shows the system clock as 14:36 on 08-11-2022, with a temperature of 28°C and "Cloudy" weather.

**Creating a Virtual Environment “EmailTest” and creating mail.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("itaswinic@gmail.com")
to_email = To("aswinichittibabu05@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 named `mail.py` open. A terminal window is overlaid on the editor, showing the execution of the `python mail.py` command. The terminal output displays a series of headers and a message ID, indicating a successful execution of the script. The status bar at the bottom shows the file is in 'Restricted Mode' and provides details about the current line and column.

```
mail.py - Visual Studio Code
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

mail.py 6 X
C:\> Command Prompt
C:\> Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Monisha>python mail.py
202
b''
Server: nginx
Date: Tue, 08 Nov 2022 09:06:08 GMT
Content-Length: 0
Connection: close
X-Message-Id: gGkdPkWMS9GmkhMPyGIpMQ
1Access-Control-Allow-Origin: https://sendgrid.api-docs.io
1Access-Control-Allow-Methods: POST
1Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
1Access-Control-Max-Age: 600
1X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
1Strict-Transport-Security: max-age=600; includeSubDomains

C:\Users\Monisha>
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python

28°C Cloudy 14:38 08-11-2022

## Test mail received via SendGrid

The screenshot shows a web browser window with two tabs: 'SendGrid' and 'Sending with SendGrid is Fun - a...'. The address bar shows the URL: [mail.google.com/mail/u/1/?ogbl#inbox/FMfcgzGqRQJjwpbtPDdHgRNBwINRtLkC](mailto:mail.google.com/mail/u/1/?ogbl#inbox/FMfcgzGqRQJjwpbtPDdHgRNBwINRtLkC). The Gmail interface is visible, with the left sidebar showing navigation options like Mail, Chat, Spaces, and Meet. The main inbox area displays an email titled 'Sending with SendGrid is Fun' from 'itaswinic@gmail.com via sendgrid.net'. The email content includes the text 'and easy to do anywhere, even with Python' and buttons for 'Reply' and 'Forward'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the temperature (28°C), weather (Cloudy), and time (14:41, 08-11-2022).

SendGrid

Sending with SendGrid is Fun - a

mail.google.com/mail/u/1/?ogbl#inbox/FMfcgzGqRQJjwpbtPDdHgRNBwINRtLkC

Gmail

Search in emails

Active

Compose

Mail

Inbox 10

Starred

Snoozed

Sent

Drafts 14

More

Labels +

2 of 982

Sending with SendGrid is Fun

itaswinic@gmail.com via sendgrid.net

to me

14:36 (4 minutes ago)

and easy to do anywhere, even with Python

Reply Forward

28°C Cloudy

14:41 08-11-2022