

Integrating SendGrid Service
SendGrid Integration With Python Code



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|--------------|--------------------------|
| 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 logo in the top left corner. The address bar displays `app.sendgrid.com/settings/api_keys`. A light blue banner at the top contains a message: "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 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), and "Settings" (with a dropdown arrow).

The main content area is titled "API Keys" in large bold text. In the top right corner of this area is a blue button labeled "Create API Key". Below the title is a table with three columns: "NAME", "API KEY", and "ACTION".

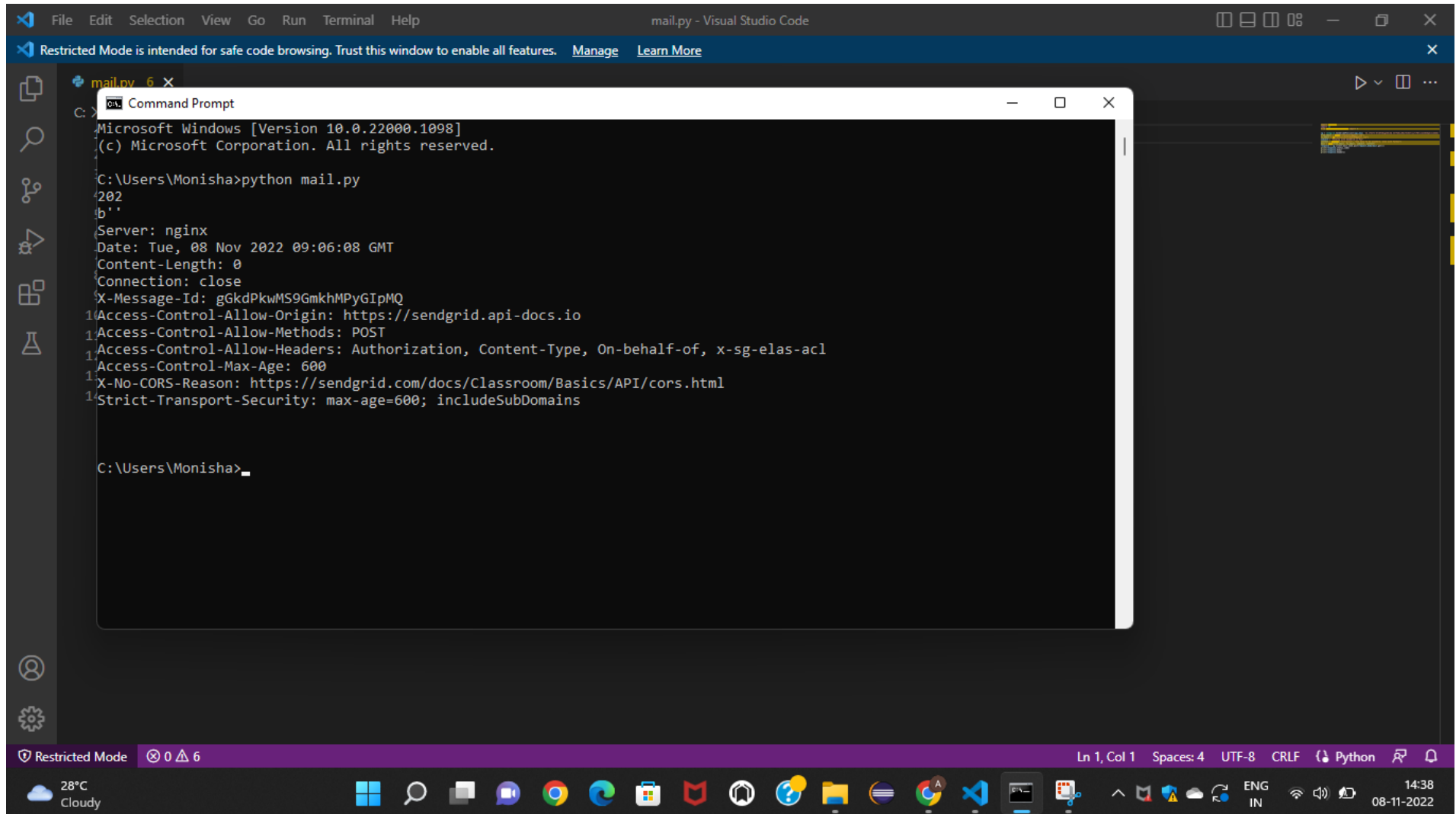
| NAME | API KEY | ACTION |
|---|---|---|
| mail 1 API Key ID: CFGhYh-RTCWFXWug3KOcKQ |  |  ▾ |

The Windows taskbar is visible at the bottom, showing the weather as 28°C Cloudy, various application icons, and the system clock displaying 14:36 on 08-11-2022.

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 status code, indicating a successful execution of the script.

```
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>
```

The status bar at the bottom of the Visual Studio Code window shows "Restricted Mode", "0 6", "Ln 1, Col 1", "Spaces: 4", "UTF-8", "CRLF", "Python", and the system clock showing "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. The Gmail interface is visible, with the left sidebar showing navigation options like Mail (10), 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 indicating the time as 14:41 on 08-11-2022.

SendGrid x Sending with SendGrid is Fun - a x +

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

Gmail

Search in emails

Active

Compose

Mail 10

Chat

Spaces

Meet

Inbox 10

Starred

Snoozed

Sent

Drafts 14

More

Labels +

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Sending with SendGrid is Fun Inbox x

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