

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

Date	08 November, 2022
Team ID	PNT2022TMID27200
Project Name	Nutrition Assistant 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 the URL `app.sendgrid.com/settings/api_keys`. A light blue banner at the top of the page contains the text: "Ready to send your first email? Follow our guides for Email API or Marketing Campaigns. [Let's do it!](#)".

On the left side, there is a sidebar menu with the user's name "Aswini Chittibabu" at the top. Below it are several menu items: "Dashboard", "Email API", "Marketing", "Design Library", "Stats", "Activity", "Suppressions", and "Settings".

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

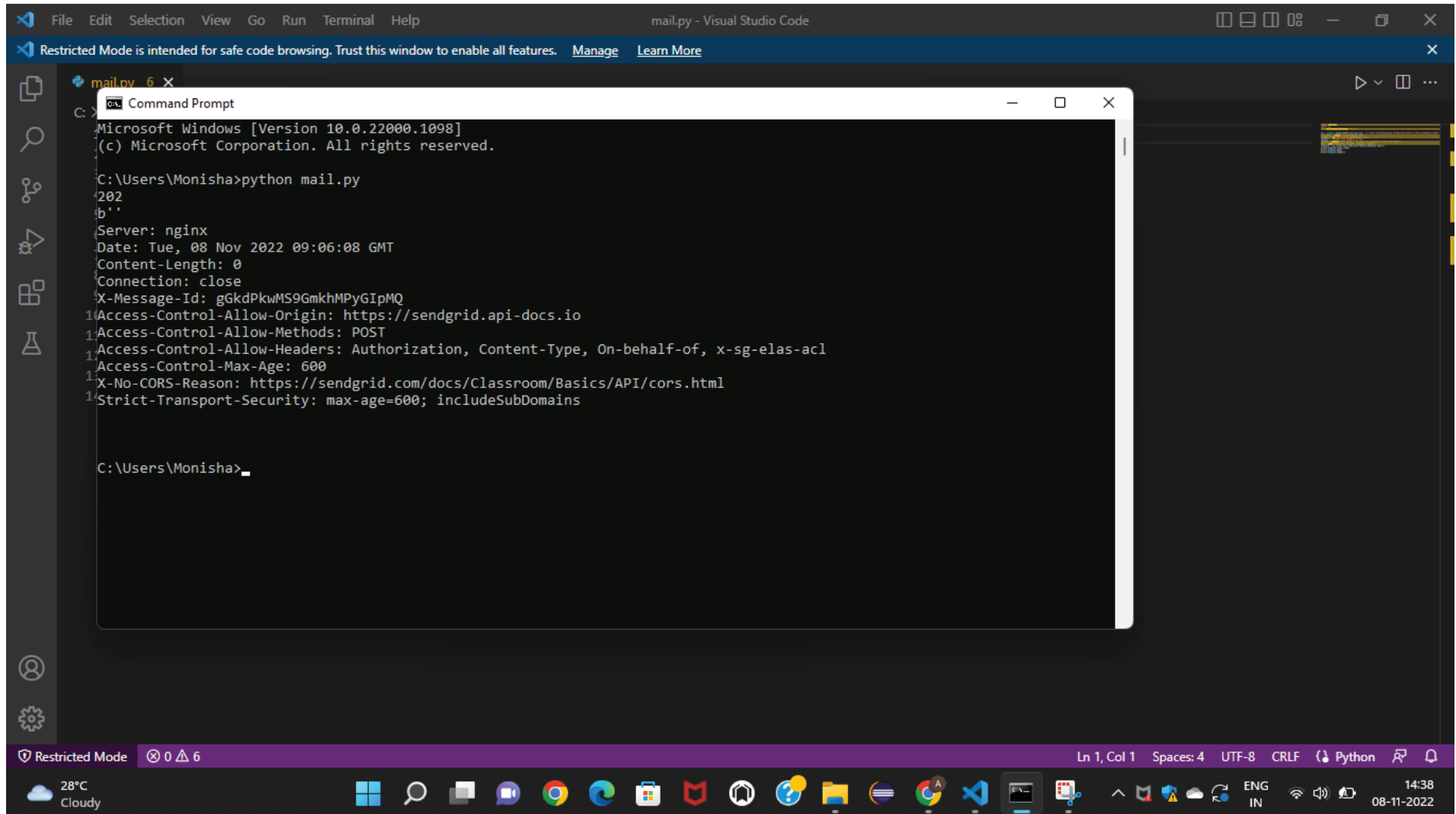
NAME	API KEY	ACTION
<b>mail 1</b> API Key ID: CFGhYh-RTCWFXWug3KOcKQ	.....	▾

At the bottom of the screen is a Windows taskbar. It shows the system clock as 14:36 on 08-11-2022, the language set to "ENG IN", and various system icons on the right. On the left side of the taskbar are icons for the Start menu, search, and several open applications including Chrome, Edge, and VS Code.

**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 the current cursor position is at line 1, column 1.

```
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 Gmail interface in a web browser. The browser's address bar displays the URL: `mail.google.com/mail/u/1/?ogbl#inbox/FMfcgzGqRQJjwpbtPDdHgRNBwINRtLkC`. The Gmail sidebar on the left includes navigation links for Mail (with a badge of 10), Chat, Spaces, and Meet. The main inbox area shows a list of folders: Compose, Inbox (10), Starred, Snoozed, Sent, Drafts (14), and More. The email being viewed is titled "Sending with SendGrid is Fun" and is from `itaswinic@gmail.com` via `sendgrid.net`. The email body contains the text "and easy to do anywhere, even with Python". Below the email content are buttons for "Reply" and "Forward". The bottom of the screen shows a Windows taskbar with various application icons, a system tray with weather information (28°C Cloudy), and the date and time (14:41, 08-11-2022).

SendGrid

Sending with SendGrid is Fun - a

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

Gmail

Compose

Inbox 10

Starred

Snoozed

Sent

Drafts 14

More

Labels +

Search in emails

Active

2 of 982

Sending with SendGrid is Fun

itaswinic@gmail.com via sendgrid.net

to me

and easy to do anywhere, even with Python

14:36 (4 minutes ago)

Reply Forward

28°C Cloudy

14:41 08-11-2022