

## INTEGRATING SENDGRID SERVICE

Team ID	PNT2022TMID34980
Project Name	Nutrition Assistant Application

### Create an API key

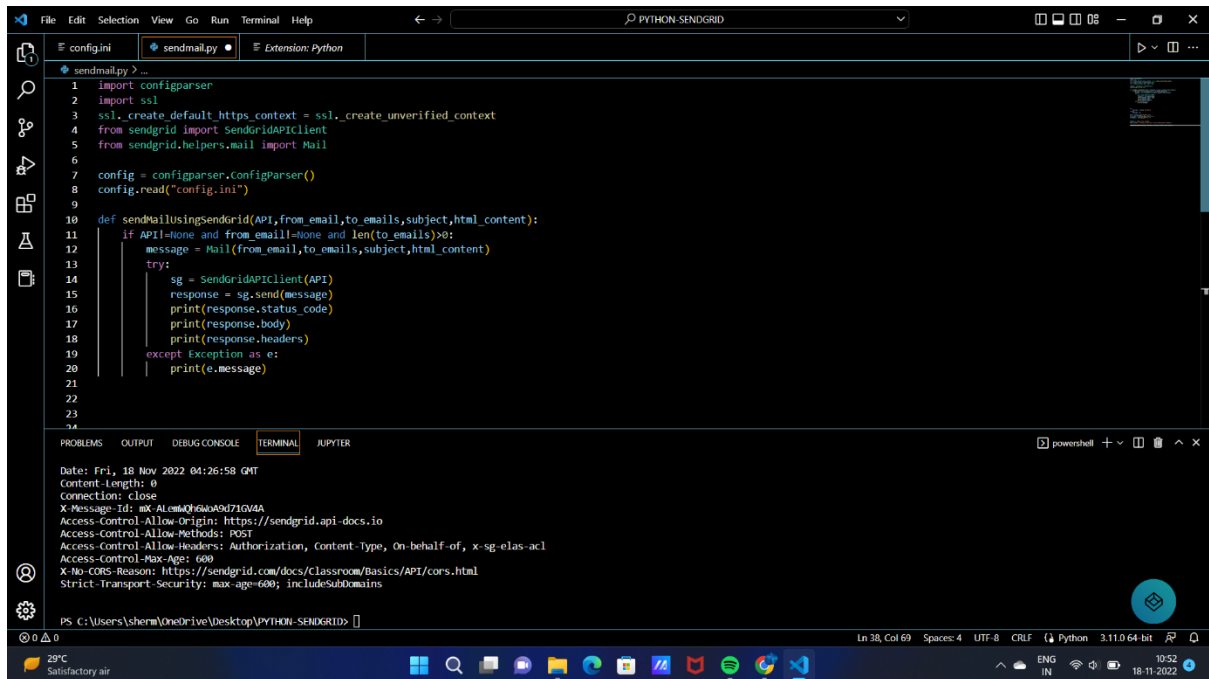
The screenshot shows the SendGrid 'API Keys' management interface. The browser address bar displays 'app.sendgrid.com/settings/api\_keys'. A notification at the top states: 'Finish your account setup in order to select a paid plan and unlock the full potential of Twilio SendGrid. [Let's do it!](#)'. The left sidebar lists navigation options: Retna Murugan, Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, Settings, Account Details, Alert Settings, and API Keys. The main content area, titled 'API Keys', features a 'Create API Key' button and a table with the following data:

NAME	API KEY	ACTION
<b>Foodnutritionapp123</b> API Key ID: nQYmQ6TMSuuCHFKID7Hw-w	*****	

The Windows taskbar at the bottom shows the date and time as 10:51 on 18-11-2022.

**Install package: >pip install Sendgrid**

**Send mail**

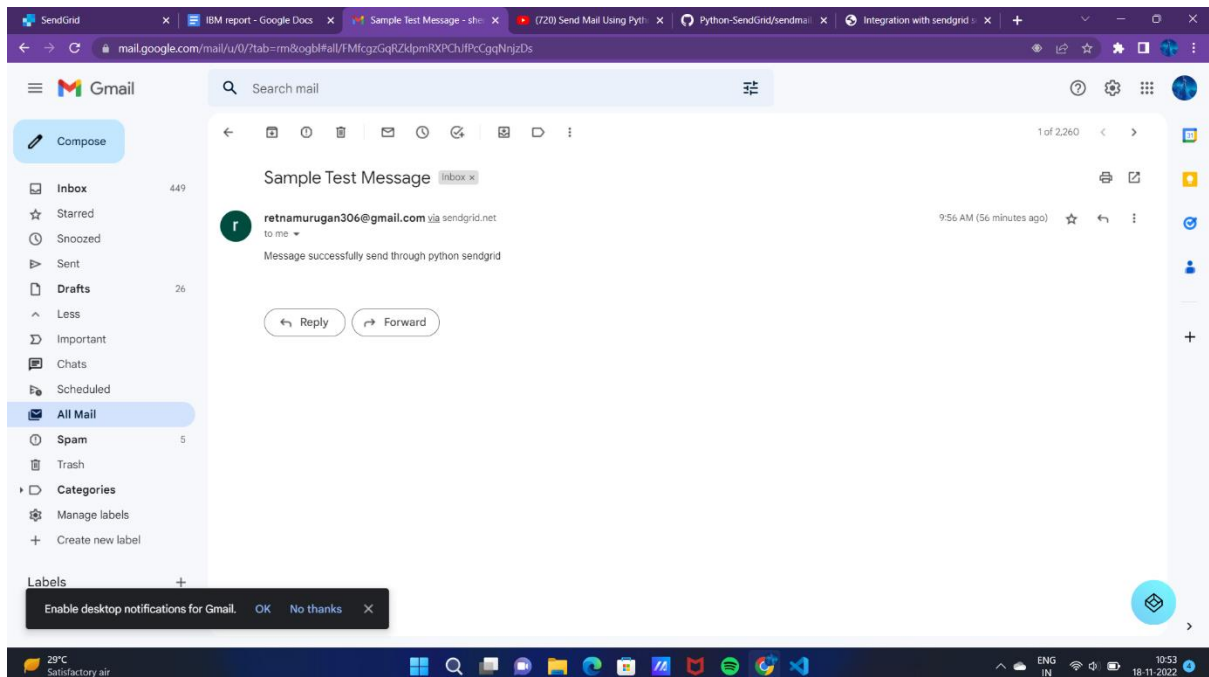


```
1 import configparser
2 import ssl
3 ssl.create_default_https_context = ssl._create_unverified_context
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 config = configparser.ConfigParser()
8 config.read("config.ini")
9
10 def sendMailUsingSendGrid(API,from_email,to_emails,subject,html_content):
11     if API!=None and from_email!=None and len(to_emails)>0:
12         message = Mail(from_email,to_emails,subject,html_content)
13         try:
14             sg = SendGridAPIClient(API)
15             response = sg.send(message)
16             print(response.status_code)
17             print(response.body)
18             print(response.headers)
19         except Exception as e:
20             print(e.message)
21
22
23
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Date: Fri, 18 Nov 2022 04:26:58 GMT  
Content-Length: 0  
Connection: close  
X-Message-Id: mxALeWuQh6wM9d71QV4A  
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-Ng-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html  
Strict-Transport-Security: max-age=600; includeSubDomains

PS C:\Users\sherm\OneDrive\Desktop\PYTHON-SENDGRID>



## Sendgrid mail activity

The screenshot shows the Twilio SendGrid dashboard for user Retna Murugan. The interface includes a sidebar with navigation links: Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, Settings, and Twilio SMS. A top banner prompts the user to 'Ready to unlock the full potential of Twilio SendGrid?' with a 'Let's do it!' button. Below this, a greeting says 'Hello Retna! Here's your recent email activity.' with 'Wk' and 'Mo' tabs. A row of six metrics is displayed: REQUESTS (0), DELIVERED (N/A, 0), OPENED (N/A, 0), CLICKED (N/A, 0), BOUNCES (N/A, 0), and SPAM REPORTS (N/A, 0). At the bottom left, a 'REPUTATION' bar is at 100% and a 'VIEW ACCOUNT USAGE' link is present. The Windows taskbar at the bottom shows the date as 18-11-2022 and time as 09:22.

SendGrid

IBM report - Google Docs

app.sendgrid.com

Retna Murugan

Dashboard

Email API

Marketing

Design Library

Stats

Activity

Suppressions

Settings

Twilio SMS **NEW**

REPUTATION 100%

VIEW ACCOUNT USAGE

Ready to unlock the full potential of Twilio SendGrid?

Finish your account setup in order to select a paid Email API or Marketing Campaigns plan.

Let's do it!

Hello Retna! Here's your recent email activity.

Wk Mo

REQUESTS	DELIVERED	OPENED	CLICKED	BOUNCES	SPAM REPORTS
0	N/A 0	N/A 0	N/A 0	N/A 0	N/A 0

27°C Partly sunny

ENG IN

09:22 18-11-2022