

Integrating SendGrid Service

SendGrid Integration With Python Code

Date	08 November, 2022
Team ID	PNT2022TMID27000
Project Name	Plasma Donor Application

Creating an API Key

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app.sendgrid.com/settings/api_keys

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Gmail YouTube Maps

⚠️ **Review.** Your account is under review and we'd like to know a little more about you and how you intend to use Twilio SendGrid. [Contact Us](#)

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THENDRAL TAMIL ▾

Dashboard

Email API ▾

Marketing ▾


Design Library

Stats ▾

Activity

Suppressions ▾

Settings ▾



API Key Created

Please copy this key and save it somewhere safe.
For security reasons, we cannot show it to you again

SG.TWayD19URAGv9jqL5ZXTRA.J8eAEnM8u6EPJcicz0jMtjUVAPem3ZbfceRulGnr1E

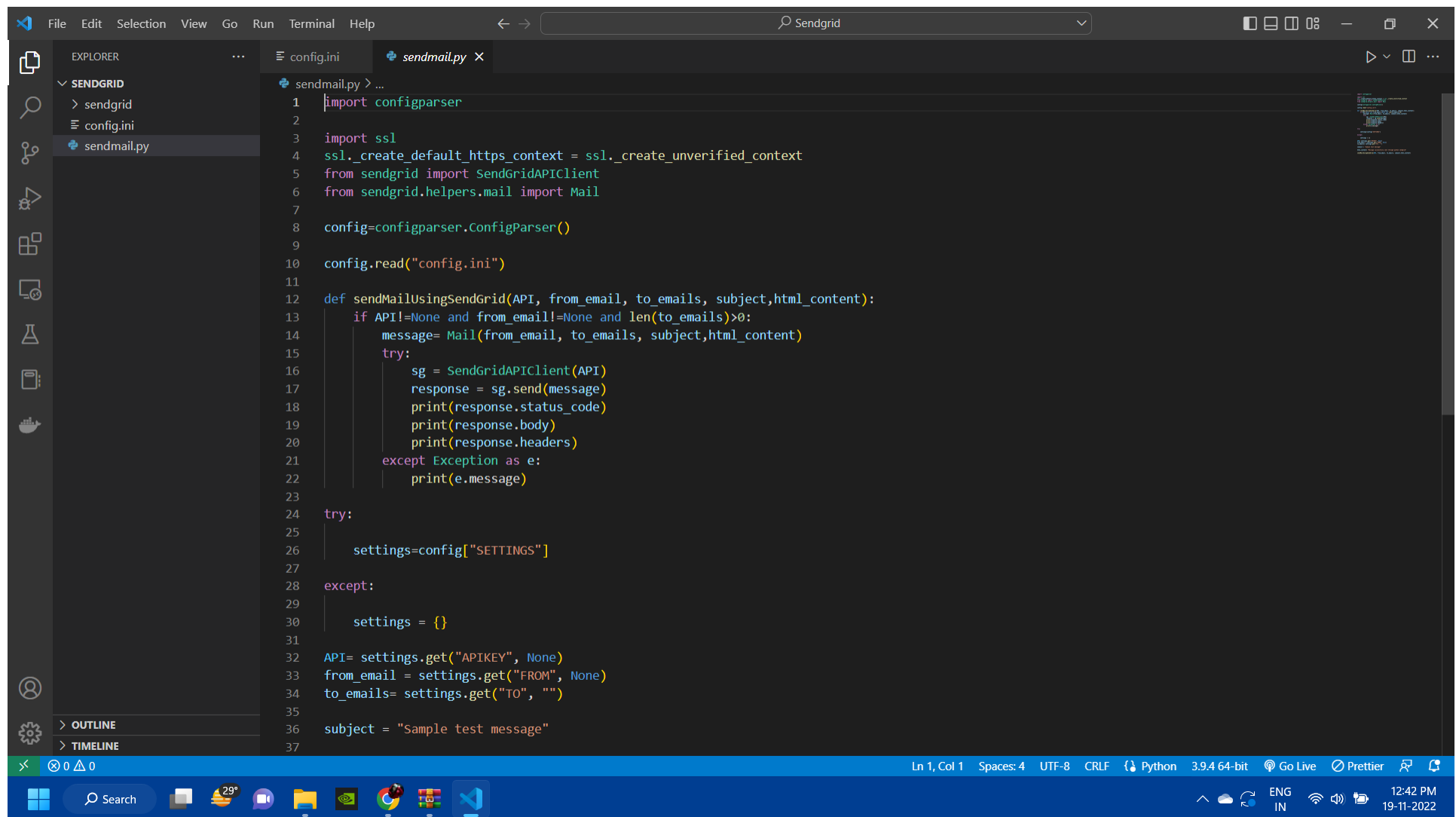
Done

Project%20Develo....zip ^

Final%20Code.zip ^

Show all ✕

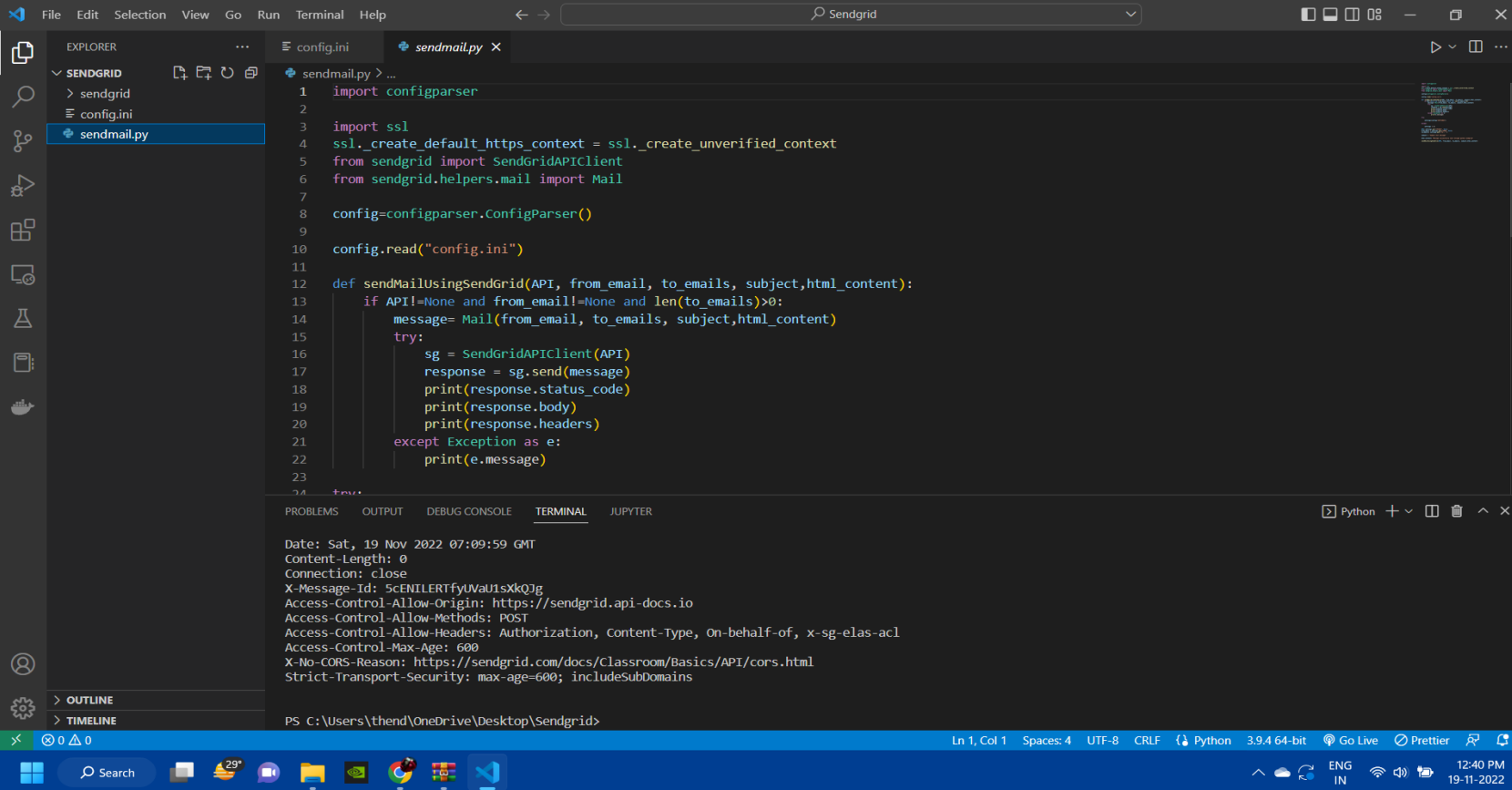
Creating a Virtual Environment “EmailTest” and creating main.py file with the following code inside the virtual environment



The image shows a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left shows a project named 'SENDGRID' with files 'sendgrid', 'config.ini', and 'sendmail.py'. The 'sendmail.py' file is open in the main editor. The code is a Python script that uses the 'configparser' module to read settings from 'config.ini' and the 'sendgrid' library to send emails. The script defines a function 'sendMailUsingSendGrid' that takes API key, from email, to emails, subject, and HTML content as arguments. It checks if the API key is present and if there are to-emails. It then creates a 'SendGridAPIClient' and sends the email. The script also reads settings from 'config.ini' and uses them to populate the function arguments. The status bar at the bottom shows the file is at line 1, column 1, with 4 spaces, UTF-8 encoding, and CRLF line endings. It also indicates the Python version is 3.9.4 64-bit and that Go Live and Prettier are installed.

```
1 import configparser
2
3 import ssl
4 ssl._create_default_https_context = ssl._create_unverified_context
5 from sendgrid import SendGridAPIClient
6 from sendgrid.helpers.mail import Mail
7
8 config=configparser.ConfigParser()
9
10 config.read("config.ini")
11
12 def sendMailUsingSendGrid(API, from_email, to_emails, subject,html_content):
13     if API!=None and from_email!=None and len(to_emails)>0:
14         message= Mail(from_email, to_emails, subject,html_content)
15         try:
16             sg = SendGridAPIClient(API)
17             response = sg.send(message)
18             print(response.status_code)
19             print(response.body)
20             print(response.headers)
21         except Exception as e:
22             print(e.message)
23
24 try:
25     settings=config["SETTINGS"]
26
27 except:
28     settings = {}
29
30 API= settings.get("APIKEY", None)
31 from_email = settings.get("FROM", None)
32 to_emails= settings.get("TO", "")
33
34 subject = "Sample test message"
```

Running the python file through the terminal



The image shows a Visual Studio Code (VS Code) editor window with a dark theme. The Explorer sidebar on the left shows a project named 'SENDGRID' with subfolders 'sendgrid' and 'config.ini', and a file 'sendmail.py'. The main editor area displays the 'sendmail.py' file, which contains Python code for sending emails using the SendGrid API. The code includes imports for 'configparser', 'ssl', 'SendGridAPIClient', and 'Mail', and a function 'sendMailUsingSendGrid'. The bottom panel shows the 'TERMINAL' tab with the output of running the script, displaying various headers and a status code. The status bar at the bottom indicates the file is at line 1, column 1, using UTF-8 encoding, and the Python interpreter is set to 3.9.4 64-bit.

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

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Date: Sat, 19 Nov 2022 07:09:59 GMT
Content-Length: 0
Connection: close
X-Message-Id: 5cENILERTfyUvAU1sXkQJg
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

PS C:\Users\thend\OneDrive\Desktop\Sendgrid>

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.9.4 64-bit Go Live Prettier

12:40 PM 19-11-2022

