

Integrating SendGrid Service

SendGrid Integration With Python Code

[Create API Key](#)

NAME	API KEY	ACTION
Vallinayagam API Key ID: izxOG6zGTXGDv8QSTWlnjA		

Creating a Virtual Environment “Email Test” and creating mail.py file with the following code inside the virtual environment

A screenshot of a code editor window with a dark theme. The window has two tabs: 'Welcome' and 'mail.py'. The 'mail.py' tab is active, showing a Python script. The script is located at 'C:\Users\jayan\OneDrive\Desktop\mail.py'. The code imports 'sendgrid' and 'os', then uses 'sendgrid.helpers.mail' to create and send an email. The email is sent from 'jayanthika82001@gmail.com' to 'jayanthikaj19it040@gmail.com' with the subject 'Sending with Sendgrid is Fun' and the body 'and easy to do anywhere, even with Python'. The script prints the status code, body, and headers of the response. The code is as follows:

```
C:\Users\jayan\OneDrive\Desktop\mail.py > ...
1  import sendgrid
2  import os
3  from sendgrid.helpers.mail import *
4  sg=sendgrid.SendGridAPIClient(api_key='SG.Dxs09JJ3eSd03FNfvoSatqA.zwqbbef4P40e_B365G30sqk9cvfRpmvKjnzHiCRez_k')
5  from_email=Email("jayanthika82001@gmail.com")
6  to_email=To("jayanthikaj19it040@gmail.com")
7  subject="Sending with Sendgrid is Fun"
8  content=Content("text/plain","and easy to do anywhere, even with Python")
9  mail=Mail([from_email,to_email,subject,content])
10 response=sg.mail.send.post(request_body=mail.get())
11 print(response.status_code)
12 print(response.body)
13 print(response.headers)
```

Running the python file through the terminal

```
C:\Users\jayan> OneDrive\Desktop > mail.py > ...
1  import sendgrid
2  import os
3  from sendgrid.helpers.mail import *
4  sg=sendgrid.SendGridAPIClient(api_key='SG.Dxs093JeSd03FNFvoSatqA.zwqbbe4P4Oe_B365G30sqk9cvfRpmvKjnzH1Crez_k')
5  from_email=Email("jayanthika82001@gmail.com")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python + [] [] ^ x

```
PS C:\Users\jayan> & python c:/Users/jayan/OneDrive/Desktop/mail.py
202
b''
Server: nginx
Date: Tue, 08 Nov 2022 12:19:29 GMT
Content-Length: 0
Connection: close
X-Message-Id: _l3DlhYrQzesLsZNL-qz9g
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\jayan>
```

Test mail received via SendGrid

The screenshot shows a Gmail interface in a web browser. The address bar displays the URL: `mail.google.com/mail/u/0/#inbox/FMfcgzGqRQJkQQfpPhJGHWhgtgPPmCvbg`. The browser's tab bar shows several open tabs: "Inbox (1,070) - jaya...", "YouTube", "Maps", "Gmail", "News", and "Translate".

The Gmail interface includes a left sidebar with navigation options: "Compose", "Inbox" (1,331), "Starred", "Snoozed", "Sent", "Drafts" (11), and "More". Below these are "Labels" and a "+" icon. The main content area shows a list of emails. The top email is from "jayanthika82001@gmail.com" with the subject "and easy to do anywhere,even with Python", received at "5:47 PM (16 minutes ago)".

The second email, which is the focus, is also from "jayanthika82001@gmail.com" but is marked as "via sendgrid.net". It was received at "5:49 PM (14 minutes ago)". The subject line is "and easy to do anywhere,even with Python". The email body contains the text "and easy to do anywhere,even with Python". Below the email body are two buttons: "Reply" and "Forward".

The right sidebar of the Gmail interface shows various app icons, including Google Drive, Google Photos, and Google Maps, along with a "+" icon for more apps.