

Integrating SendGrid Service

SendGrid Integration With Python Code

Date	08 November, 2022
Team ID	PNT2022TMID27181
Project Name	Plasma Donor Application

Creating an API Key

The screenshot shows a web browser window with the SendGrid API Keys management interface. The browser's address bar displays `app.sendgrid.com/settings/api_keys`. A notification banner at the top of the page 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 main content area is titled "API Keys" and features a "Create API Key" button in the top right corner. Below the title is a table with the following structure:

NAME	API KEY	ACTION
mail API Key ID: GVvojKqcSgmHgkPogS784g	▾

The left sidebar contains a navigation menu with the following items: "Sanjay Prasad Sar" (user profile), "Dashboard", "Email API", "Marketing", "Design Library", "Stats", "Activity", "Suppressions", "Settings", "Account Details", and "Alert Settings". The Windows taskbar at the bottom shows the time as 1:38 PM and includes icons for various applications and system status.

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

```
import os
import sendgrid
from sendgrid.helpers.mail import *
sg = sendgrid.SendGridAPIClient(api_key='SG.GVvojKqcSgmHgkPogS784g.6PIiQIp3awU5LclDgSGfhqNPDSQhYUwIaqjPJIccK5o')
from_email = Email("mageshwarannit@gmail.com")
to_email = To("mageshwaran8184@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

```
PROBLEMS  OUTPUT  TERMINAL  JUPYTER  DEBUG CONSOLE

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\sjeev\Downloads\sendGrid> & C:/Users/sjeev/AppData/Local/Programs/Python/Python310/python.exe c:/Users/sjeev/Do
wnloads/sendGrid/main.py
202
b''
Server: nginx
Date: Tue, 15 Nov 2022 07:50:11 GMT
Content-Length: 0
Connection: close
X-Message-Id: FJQCZg96QxG7Cs48_PuDqg
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
```

Test mail received via SendGrid

