

SendGrid Integration with Python Code

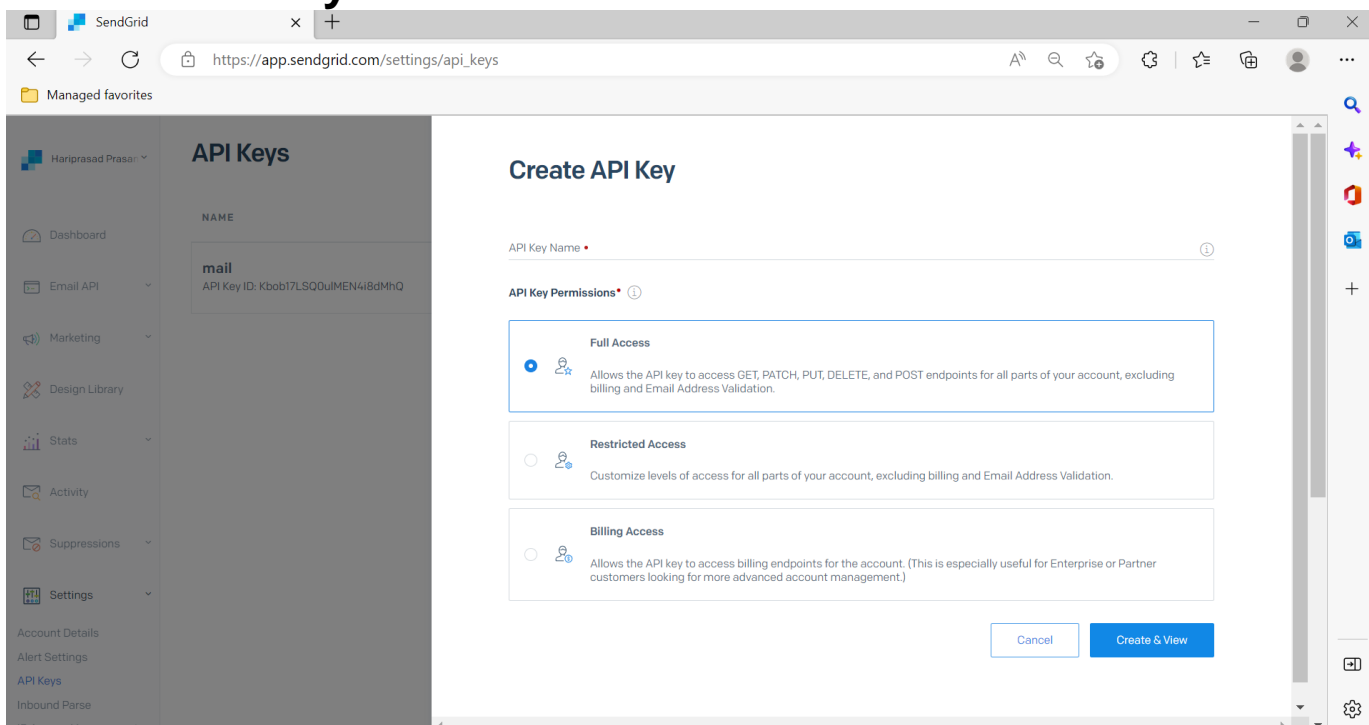
Install SendGrid:

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2251]
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C:\Users\HP>pip install sendgrid
Collecting sendgrid
  Downloading sendgrid-6.9.7-py3-none-any.whl (101 kB)
    |#####| 101 kB 1.6 MB/s
Collecting python-http-client>=3.2.1
  Downloading python_http_client-3.3.7-py3-none-any.whl (8.4 kB)
Collecting starkbank-ecdsa>=2.0.1
  Downloading starkbank-ecdsa-2.2.0.tar.gz (14 kB)
Using legacy 'setup.py install' for starkbank-ecdsa, since package 'wheel' is not installed.
Installing collected packages: starkbank-ecdsa, python-http-client, sendgrid
  Running setup.py install for starkbank-ecdsa ... done
Successfully installed python-http-client-3.3.7 sendgrid-6.9.7 starkbank-ecdsa-2.2.0
WARNING: You are using pip version 21.2.4; however, version 22.3.1 is available.
You should consider upgrading via the 'C:\Users\HP\AppData\Local\Programs\Python\Python39\python.exe -m pip install --up
grade pip' command.

C:\Users\HP>
```

Create API Key:



Python Code:

```
donor_list = []
for i in listt:
    donor_list.append(i["EMAIL"])

try:
    msg = Message('Urgent!! Plasma needed!!', recipients=donor_list)

    content = "This email is sent from Plasma Donor Application! \n"+"Request for plasma was made by: \n"+"Name: "+name

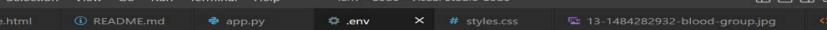
    msg.body = content
    msg.html = f'<p>This email is sent from Plasma Donor Application!</p> \n <p>Request for plasma was made by {name}</p>'
    mail.send(msg)
    print("mail successfully sent")
except Exception as e:
    print("error: ",e)
```

The screenshot displays the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The top toolbar shows icons for file explorer, search, source control, run and debug, extensions, testing, and settings. The file explorer on the left shows a project structure with files: home.html, README.md, app.py, .env, styles.css, and 13-1484282932-blood-group.jpg. The main editor area shows the content of app.py, which is a Python Flask application. The code imports Flask, render_template, request, redirect, url_for, session, Mail, Message, and IBM DB. It configures the app with a secret key, mail server, and IBM DB connection, and defines a home route. The bottom status bar indicates the current line and column (Ln 15, Col 30), the number of spaces (Spaces: 2), the file encoding (UTF-8), the line ending (LF), the Python version (Python 3.10.7 64-bit), and the system clock (12:32 10-11-2022).

```

1  from flask import Flask, render_template, request, redirect, url_for, session
2  from flask_mail import Mail, Message
3  import ibm_db
4  import os
5
6
7
8
9  conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=2d46b6b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od81cg.database
10
11 app = Flask(__name__)
12
13 app.config['SECRET_KEY'] = 'top-secret!'
14 app.config['MAIL_SERVER'] = 'smtp.sendgrid.net'
15 app.config['MAIL_PORT'] = 587
16 app.config['MAIL_USE_TLS'] = True
17 app.config['MAIL_USERNAME'] = 'apikey'
18 app.config['MAIL_PASSWORD'] = os.environ.get('SENDGRID_API_KEY')
19 app.config['MAIL_DEFAULT_SENDER'] = os.environ.get('MAIL_DEFAULT_SENDER')
20 mail = Mail(app)
21
22 print(os.environ.get('MAIL_DEFAULT_SENDER'))
23 @app.route("/", methods=['GET'])
24 def home():

```



The screenshot shows the Visual Studio Code interface with the `.env` file open. The file contains the following content:

```
1 SENDGRID_API_KEY="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"
2 MAIL_DEFAULT_SENDER="munagapatimaheshbabucse2019@citchennai.net"
```

Output:

