

Integrating SendGrid Service

SendGrid Integration With Python Code

Date	2 nd November, 2022
Team ID	PNT2022TMID24121
Project Name	Plasma Donor Application

Creating An API Key

app.sendgrid.com/settings/api_keys

Finish your account setup in order to select a paid plan and unlock the full potential of Twilio SendGrid. [Let's do it!](#)

Rushal Premanani

Dashboard

Email API

Marketing

Design Library

Stats

Activity

Suppressions

Settings

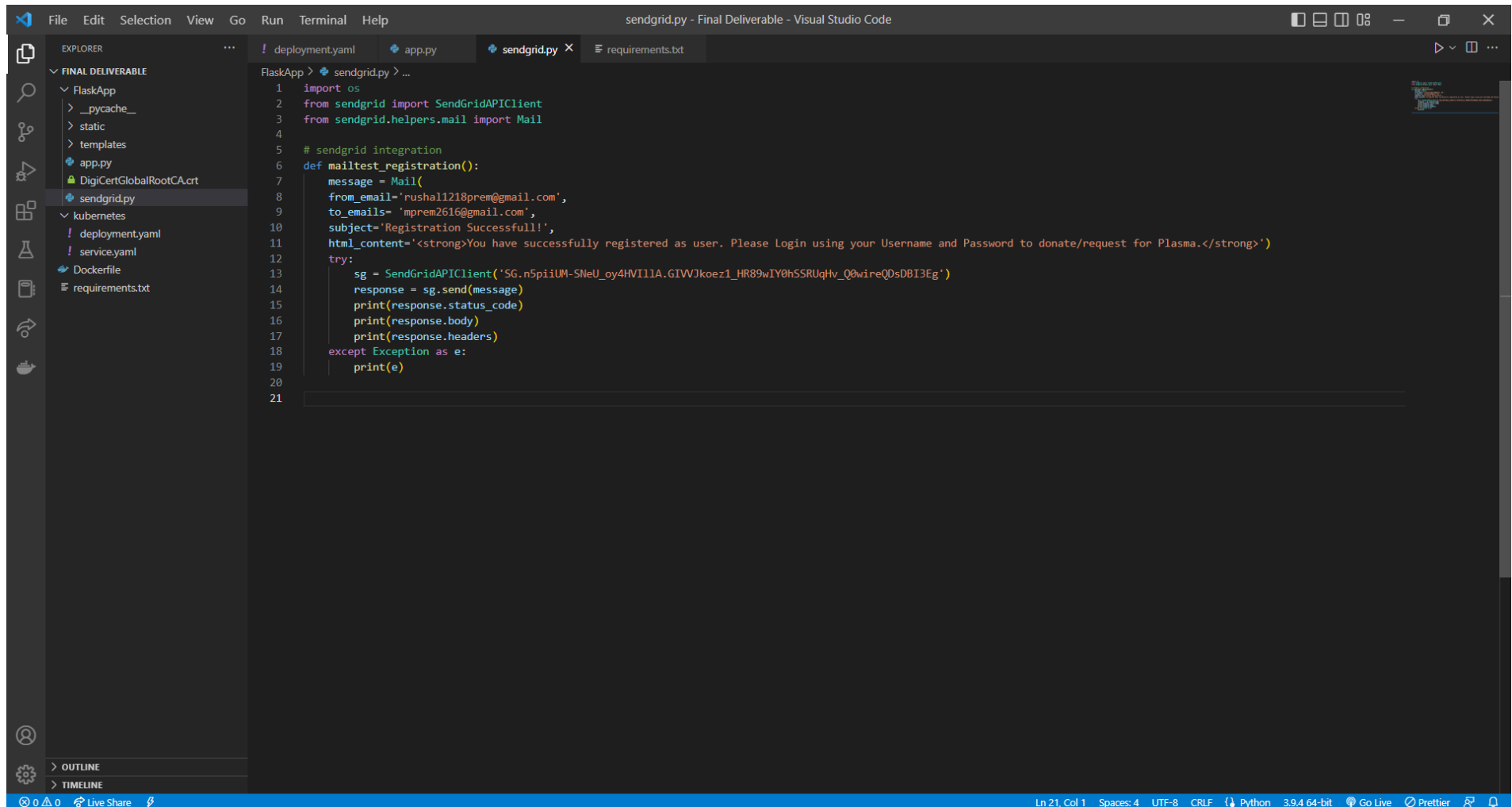
Account Details

API Keys

Create API Key

NAME	API KEY	ACTION
<div><div>rushal</div><div>API Key ID: n5piiUM-SNeU_oy4HVIIIa</div></div>	<div></div>	<div></div>

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



The screenshot shows the Visual Studio Code interface with the following details:

- Explorer Panel:** Displays a project structure under "FINAL DELIVERABLE". It includes a "FlaskApp" folder with subfolders like "__pycache__", "static", and "templates", and files like "app.py", "DigiCertGlobalRootCA.crt", "sendgrid.py", "deployment.yaml", "service.yaml", "Dockerfile", and "requirements.txt".
- Code Editor:** The active file is "sendgrid.py". The code is as follows:

```
1 import os
2 from sendgrid import SendGridAPIClient
3 from sendgrid.helpers.mail import Mail
4
5 # sendgrid integration
6 def mailtest_registration():
7     message = Mail(
8         from_email='rushal1218prem@gmail.com',
9         to_emails= 'mprem2616@gmail.com',
10        subject='Registration Successfull!',
11        html_content='<strong>You have successfully registered as user. Please Login using your Username and Password to donate/request for Plasma.</strong>')
12    try:
13        sg = SendGridAPIClient('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')
14        response = sg.send(message)
15        print(response.status_code)
16        print(response.body)
17        print(response.headers)
18    except Exception as e:
19        print(e)
20
21
```
- Terminal Panel:** Shows the command prompt with the text "FlaskApp > sendgrid.py > ...".
- Status Bar:** At the bottom, it shows "Ln 21, Col 1", "Spaces: 4", "UTF-8", "CRLF", "Python", "3.9.4 64-bit", "Go Live", "Prettier", and a refresh icon.

Test mail received via Sendgrid

