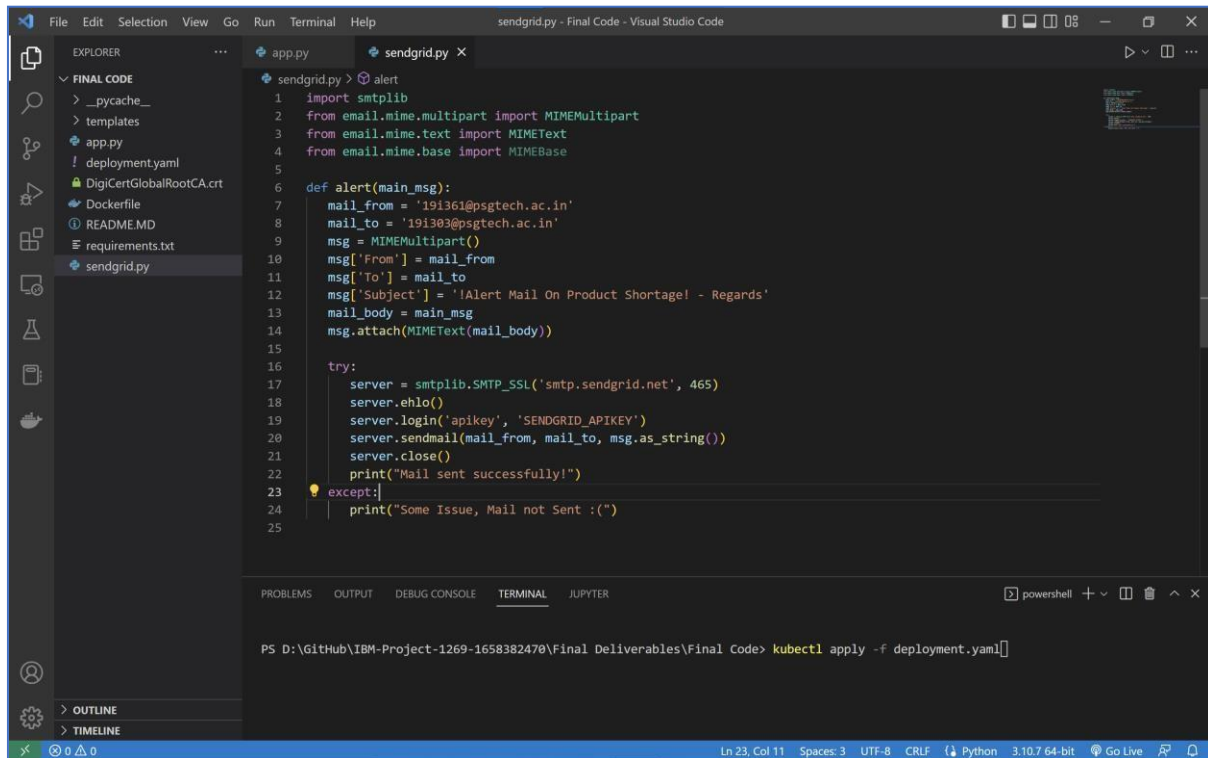


Pre-Development Phase Integrating SendGrid Service

Date	14.11.2022
Team ID	PNT2022TMID01394
Project Name	Inventory Management System for Retailers

SendGrid Integration with Python Code,

The screenshot shows the Visual Studio Code interface with a Python file named 'sendgrid.py' open. The code defines an 'alert' function that uses the 'smtplib' and 'email.mime' modules to send an email via SendGrid. The email is configured with a 'From' address, a 'To' address, a subject, and a body. The function uses an SMTP server at 'smtp.sendgrid.net' and authenticates with an API key. The code includes error handling for cases where the email is not sent successfully. The terminal at the bottom shows the command 'kubectl apply -f deployment.yaml' being executed.

```
1 import smtplib
2 from email.mime.multipart import MIMEMultipart
3 from email.mime.text import MIMEText
4 from email.mime.base import MIMEBase
5
6 def alert(main_msg):
7     mail_from = '191361@psgtech.ac.in'
8     mail_to = '191303@psgtech.ac.in'
9     msg = MIMEMultipart()
10    msg['From'] = mail_from
11    msg['To'] = mail_to
12    msg['Subject'] = 'Alert Mail On Product Shortage! - Regards'
13    mail_body = main_msg
14    msg.attach(MIMEText(mail_body))
15
16    try:
17        server = smtplib.SMTP_SSL('smtp.sendgrid.net', 465)
18        server.ehlo()
19        server.login('apikey', 'SENDGRID_APIKEY')
20        server.sendmail(mail_from, mail_to, msg.as_string())
21        server.close()
22        print("Mail sent successfully!")
23    except:
24        print("Some Issue, Mail not Sent :(")
25
```

Here the SENDGRID_APIKEY must be substituted with the Unique API Key which will be provided when SendGrid Account is Created.

Note: For Security reasons, here we did not expose our SendGrid API Key.

PNT2022TMID01394