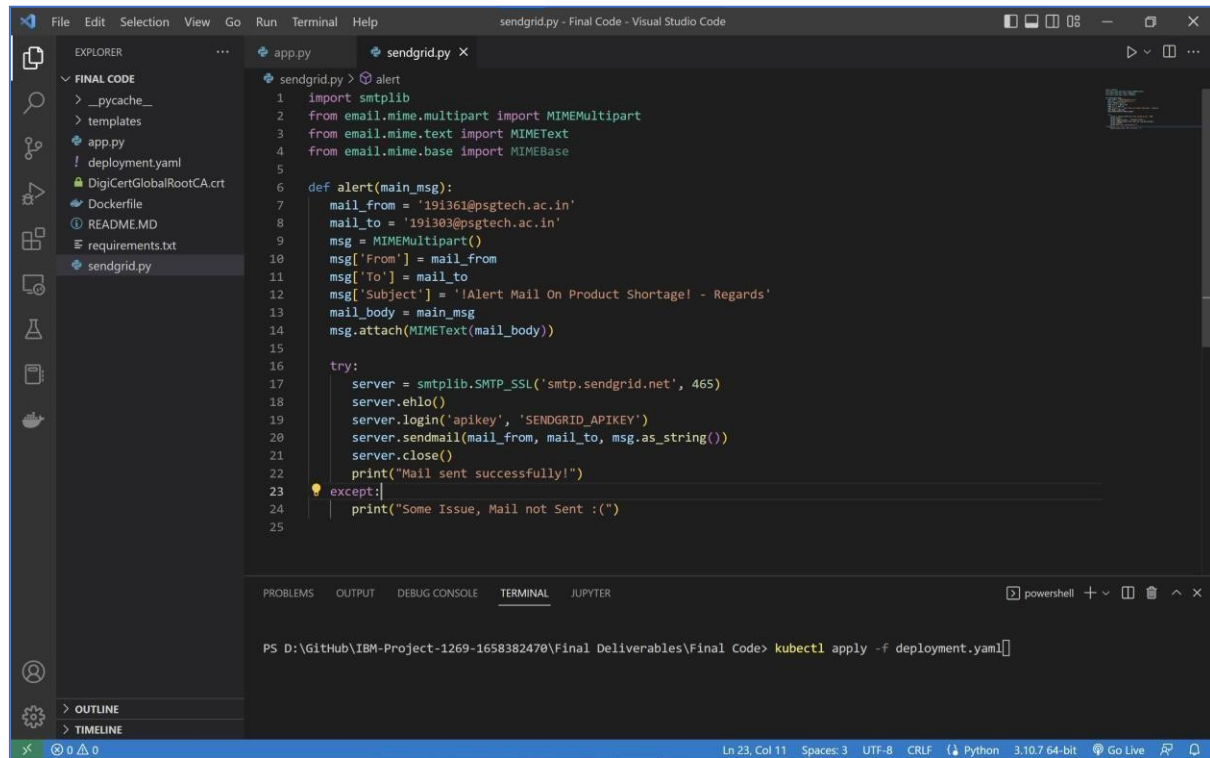


Pre-Development Phase Integrating SendGrid Service

Date	14.11.2022
Team ID	PTN2022TMID14771
Project Name	Inventory Management System for Retailers

SendGrid Integration with Python Code,



The screenshot shows a Visual Studio Code editor window with a Python script named `sendgrid.py`. The script imports `smtplib`, `MIMEMultipart`, `MIMEText`, and `MIMEBase` from the `email.mime` module. It defines an `alert` function that takes `main_msg` as an argument. Inside the function, it sets `mail_from` to `'191361@psgtech.ac.in'` and `mail_to` to `'191303@psgtech.ac.in'`. It then creates a `MIMEMultipart` object, sets the `From`, `To`, `Subject`, and `body` fields, and attaches the `main_msg` as a `MIMEText` object. The function uses `smtplib` to connect to the SendGrid SMTP server (`smtp.sendgrid.net`) on port 465, logs in with the `SENDGRID_APIKEY`, and sends the email. It includes a `try` block for the SMTP connection and an `except` block to handle errors. The script also has a `terminal` window at the bottom showing the command `kubectl apply -f deployment.yaml`.

```
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.

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