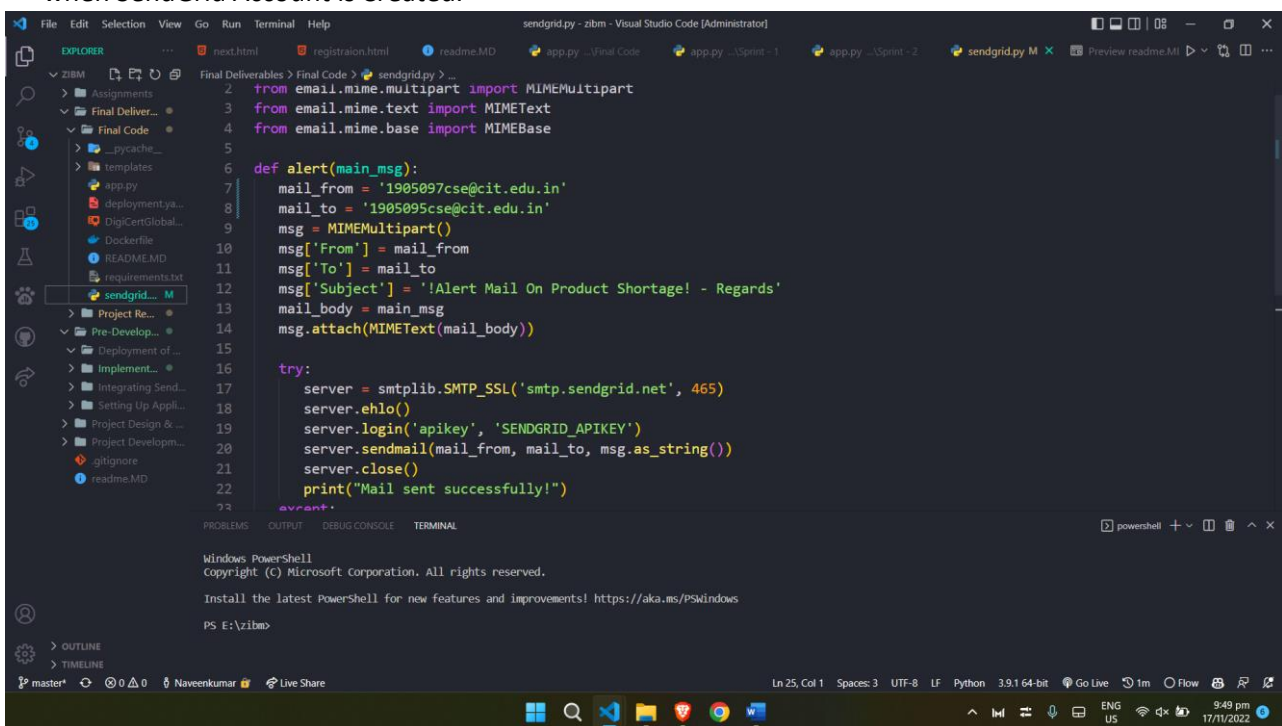


Pre-Development Phase Integrating SendGrid Service

Date	14.11.2022
Team ID	PNT2022TMID52681
Project Name	Inventory Management System for Retailers

SendGrid Integration with Python Code,

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



The screenshot shows a Visual Studio Code editor window with a Python file named `sendgrid.py` open. The code defines a function `alert` that sends an email using the SendGrid API. The email content is: `!Alert Mail On Product Shortage! - Regards`. The code uses the `smtplib` library to connect to the SendGrid SMTP server. The API key is represented by the placeholder `SENDGRID_APIKEY`. The terminal at the bottom shows a Windows PowerShell prompt, indicating the code is ready to be executed.

```
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 = '1905097cse@cit.edu.in'
8     mail_to = '1905095cse@cit.edu.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:
```

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