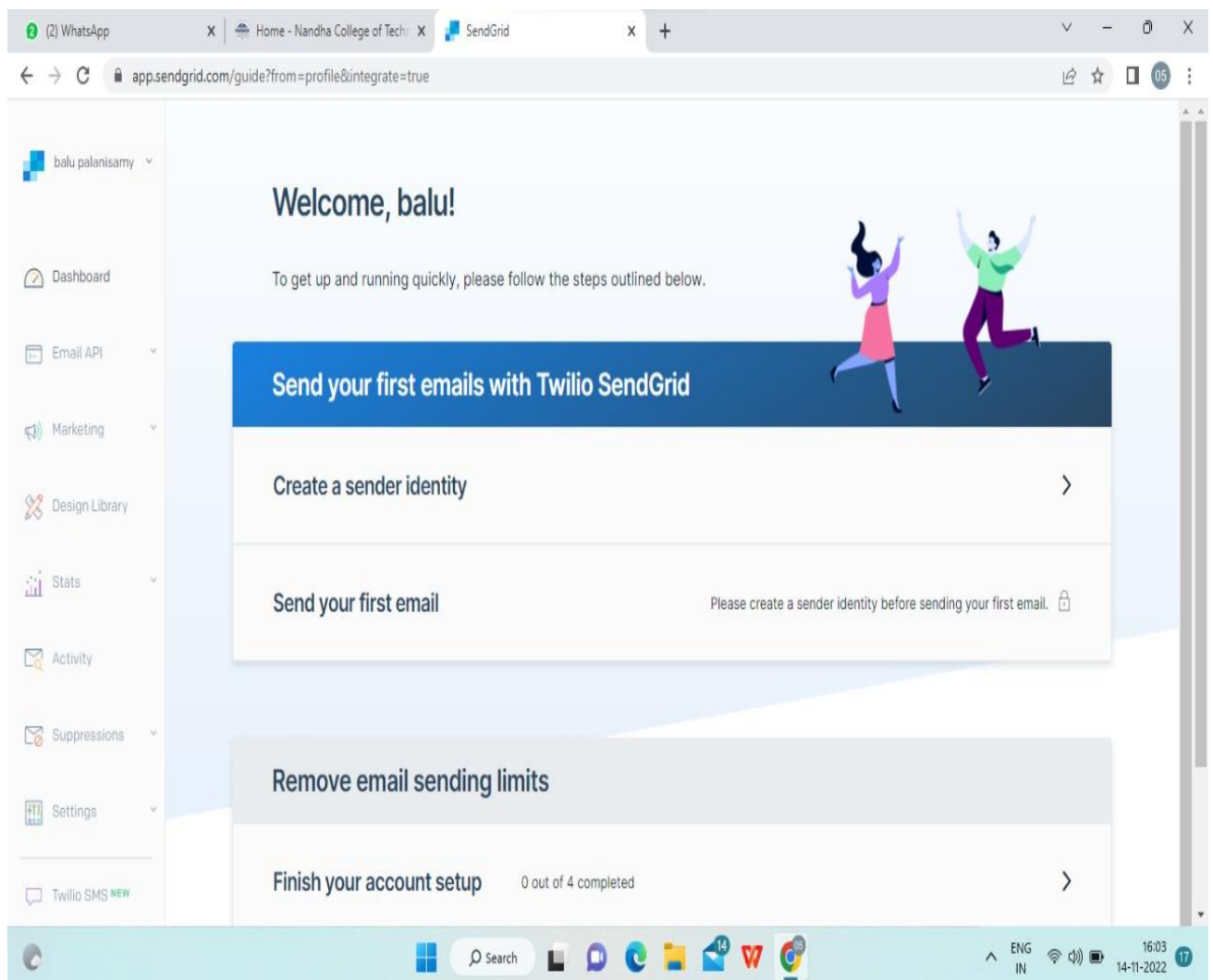


SENDGRID INTEGRATION WITH PYTHON CODE

Date	03 November 2022
Team ID	PNT2022TMID32201
Project Name	Personal Expense Tracker Application
Maximum Marks	2 Marks



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

```
1 [SETTINGS]
2 APIKEY=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
3 FROM = 732119106005@smartinternz.com
4 TO = ajithabanu713@gmail.com
5
```

The terminal window at the bottom shows the Windows PowerShell prompt and a warning message:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/powershell

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadline for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadline'.

PS C:\Users\ELCOT\3D Objects\aji>
```

The screenshot shows the Visual Studio Code interface with the `sendmail.py` file open. The file contains the following Python code:

```
1 import configparser
2 import ssl
3 ssl._create_default_https_context = ssl._create_unverified_context
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 config = configparser.ConfigParser()
8 config.read("config.ini")
9
10 def sendMailUsingSendGrid(API,from_email,to_emails,subject,html_content):
11     if API!=None and from_email!=None and len(to_emails)>0:
12         message = Mail(from_email,to_emails,subject,html_content)
13         try:
14             sg = SendGridAPIClient(API)
15             response = sg.send(message)
16             print(response.status_code)
17             print(response.body)
18             print(response.headers)
19         except Exception as e:
20             print(e.message)
21
22
23
24
25 try:
26     settings = config["SETTINGS"]
27 except:
28     settings = {}
29
30 API = settings.get("APIKEY",None)
31 from_email = settings.get("FROM",None)
32 to_emails = settings.get("TO",None)
```

The image shows a Visual Studio Code window with the title 'sendmail.py - PYTHON-SENDGRID - Visual Studio Code'. The editor has two tabs: 'config.ini' and 'sendmail.py'. The 'sendmail.py' tab is active, displaying the following Python code:

```
1 import configparser
2 import ssl
3 ssl._create_default_https_context = ssl._create_unverified_context
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 config = configparser.ConfigParser()
8 config.read("config.ini")
9
10 def sendMailUsingSendGrid(API,from_email,to_emails,subject,html_content):
11     if API!=None and from_email!=None and len(to_emails)>0:
12         message = Mail(from_email,to_emails,subject,html_content)
13         try:
14             sg = SendGridAPIClient(API)
```

Below the editor, the 'TERMINAL' tab is active, showing the command prompt output:

```
PS D:\PYTHON-SENDGRID> python -u "d:\PYTHON-SENDGRID\sendmail.py"
202
b''
Server: nginx
Date: Tue, 15 Nov 2022 06:39:33 GMT
Content-Length: 0
Connection: close
X-Message-Id: N7rE1ChDR7e0DNcoiu0ImA
Access-Control-Allow-Origin: https://sendgrid.api-docs.io
Access-Control-Allow-Methods: POST
Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
Access-Control-Max-Age: 600
X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
Strict-Transport-Security: max-age=600; includeSubDomains
```

The status bar at the bottom indicates the file is at 'Ln 33, Col 1', uses 'Spaces: 4', 'UTF-8' encoding, 'CRLF' line endings, and is a 'Python 3.10.6 64-bit' file.