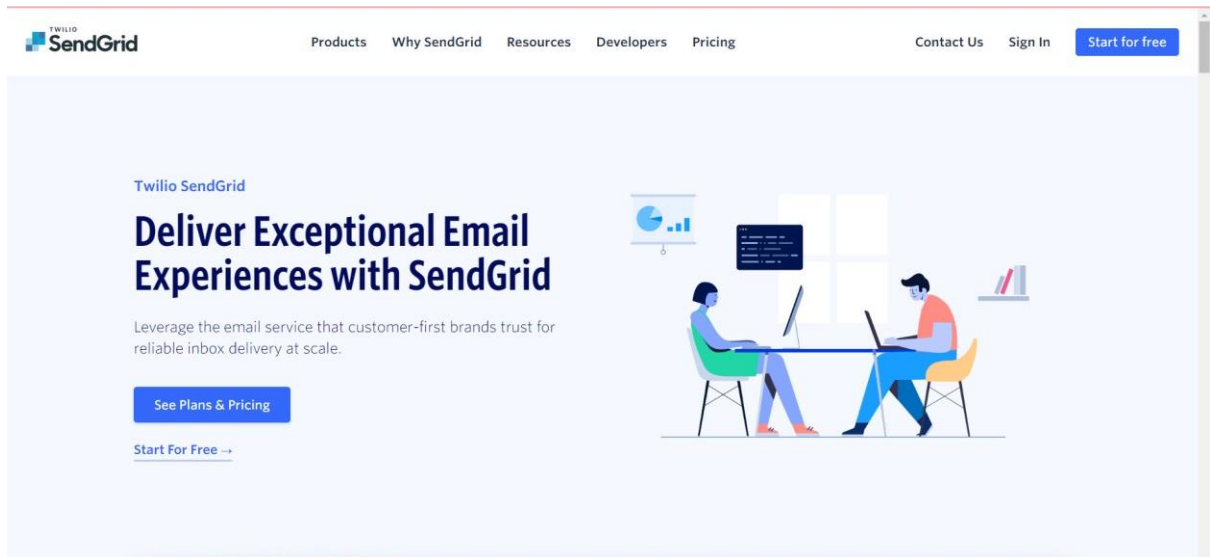


## INTEGRATING SENDGRID SERVICE

### SENGRID INTEGRATION WITH PYTHON CODE

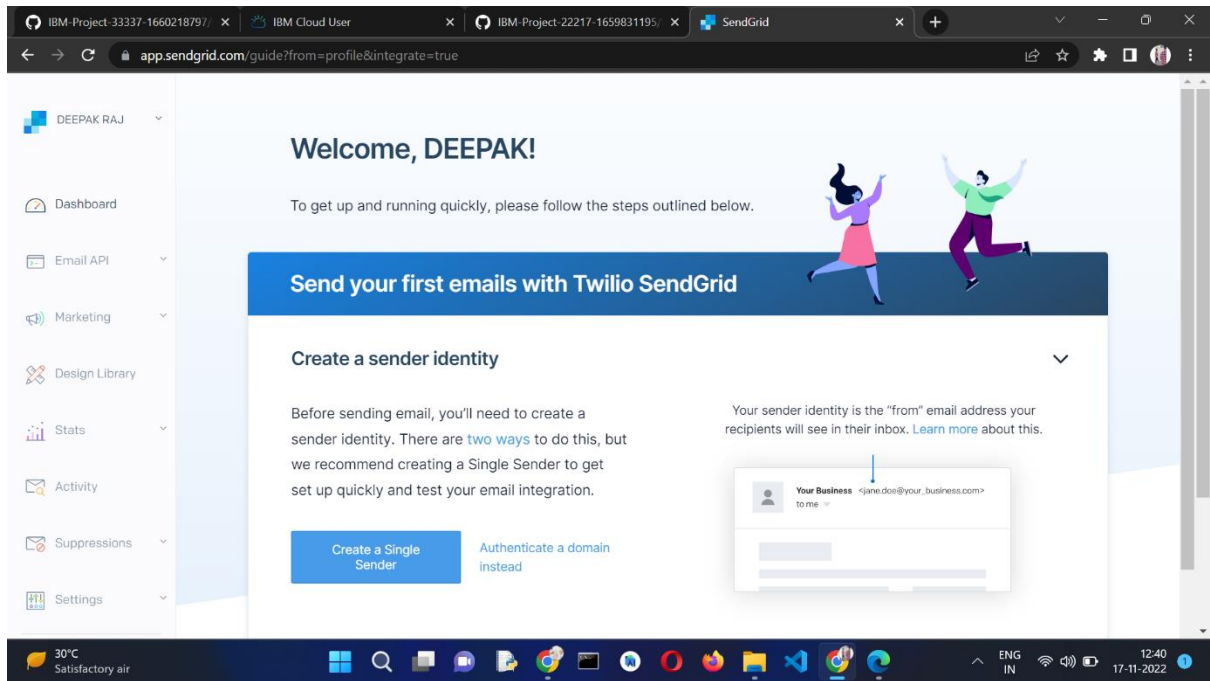
TEAM ID	PNT2022TMID41607
PROJECT NAME	PERSONAL EXPENSE TRACKER APPLICATION
TEAM MEMBERS	DEEPAK RAJ M, BHARATHVAJ N, PRAVEEN KUMAR V, SRIDHARAN A.

1. Navigate to [www.sendgrid.com](https://www.sendgrid.com)
2. The webpage looks like :

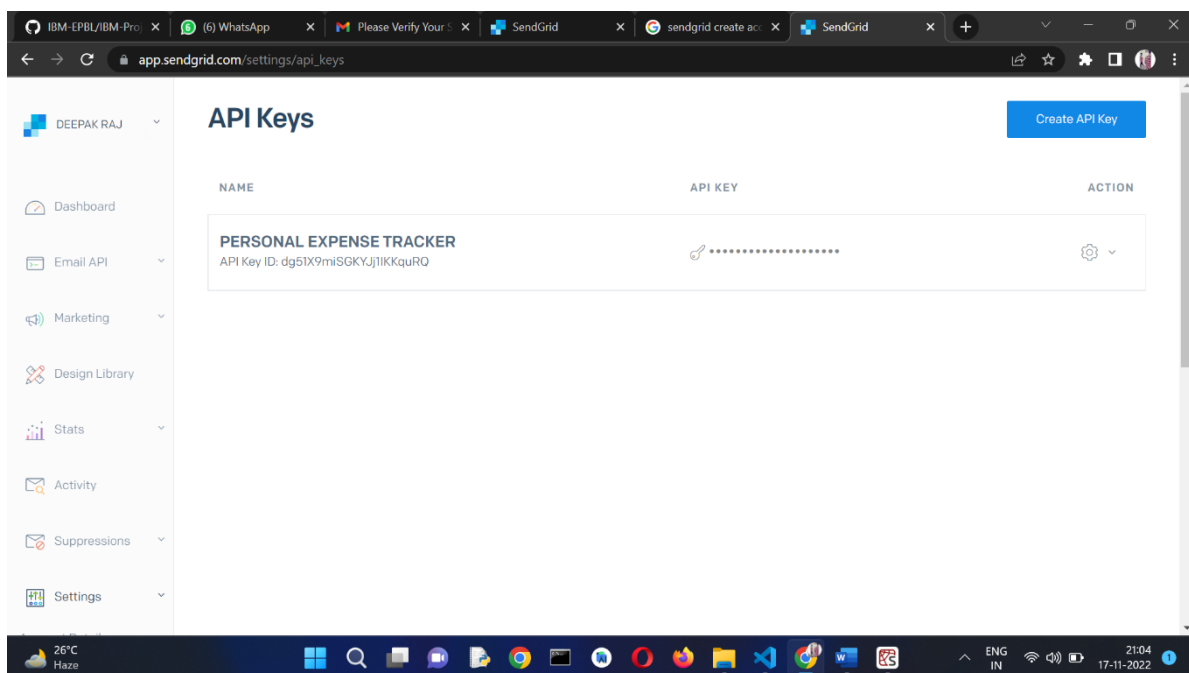


3. Click on start for free. Then give your details to create an account in sendgrid.
4. After the successful account creation the dashboard showed it's like the below:
5. User need to create an API key to generate API key Navigate settings→API Keys.
6. This page like follows :

1. Dashboard page



## 2. API Key generation :



### 3. Sendgrid installation on POWERSHELL:

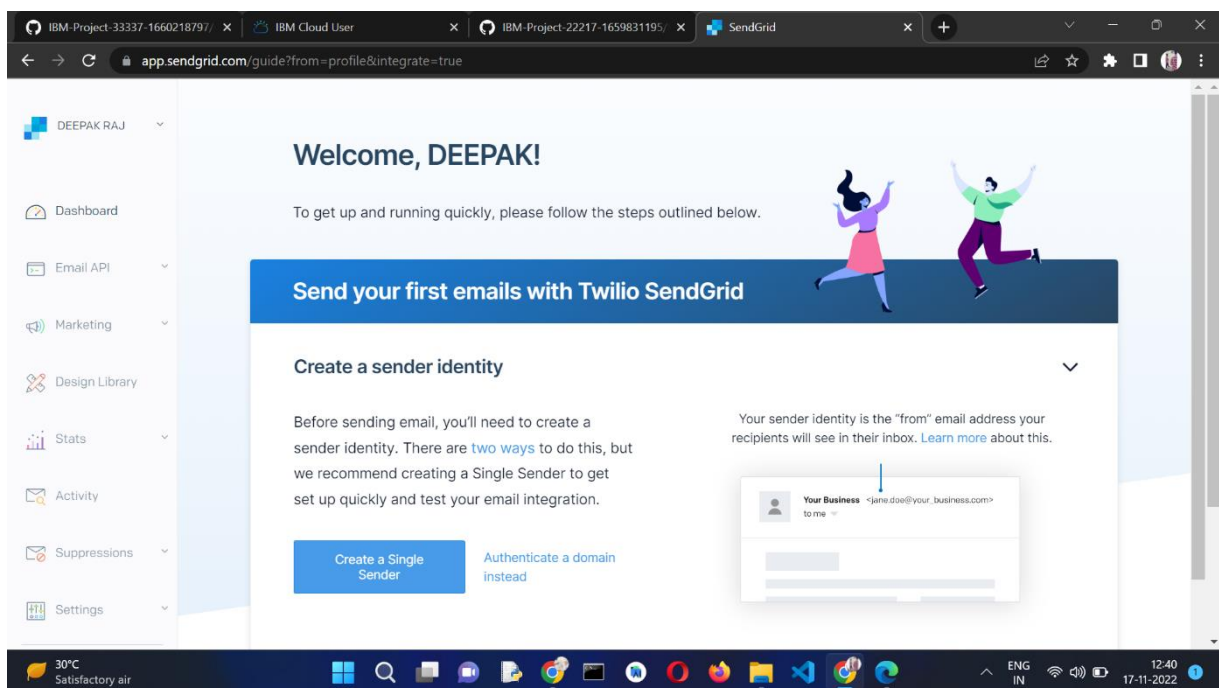
We already installed.

### 4. Single sender verification :

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

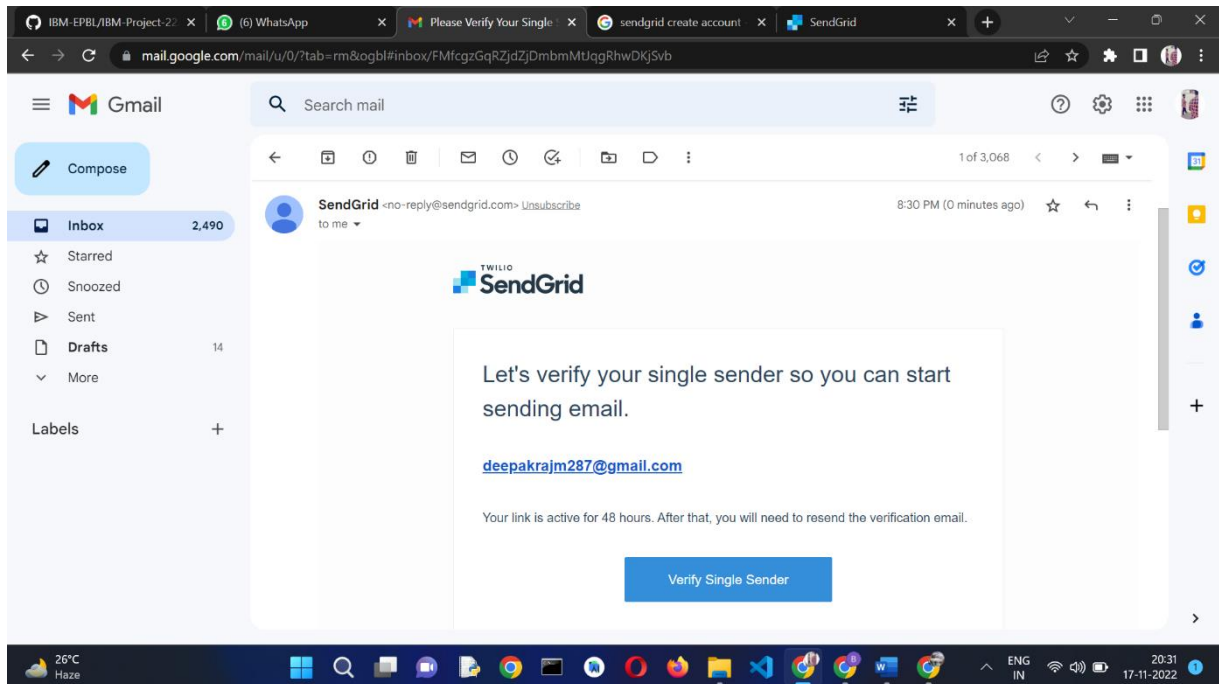
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\vjman> pip install sendgrid
ERROR: Could not find a version that satisfies the requirement sendgrid (from versions: none)
ERROR: No matching distribution found for sendgrid
WARNING: You are using pip version 22.0.4; however, version 22.3.1 is available.
You should consider upgrading via the 'C:\Program Files\Python310\python.exe -m pip install --upgrade pip' command.
PS C:\Users\vjman> pip install sendgrid
Requirement already satisfied: sendgrid in c:\program files\python310\lib\site-packages (6.9.7)
Requirement already satisfied: starkbank-ecdsa>=2.0.1 in c:\program files\python310\lib\site-packages (from sendgrid) (2.2.0)
Requirement already satisfied: python-http-client>=3.2.1 in c:\program files\python310\lib\site-packages (from sendgrid) (3.3.7)
WARNING: You are using pip version 22.0.4; however, version 22.3.1 is available.
You should consider upgrading via the 'C:\Program Files\Python310\python.exe -m pip install --upgrade pip' command.
PS C:\Users\vjman> python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in c:\program files\python310\lib\site-packages (22.0.4)
Collecting pip
  Downloading pip-22.3.1-py3-none-any.whl (2.1 MB)
    0.6/2.1 MB 29.4 kB/s eta 0:00:42
```

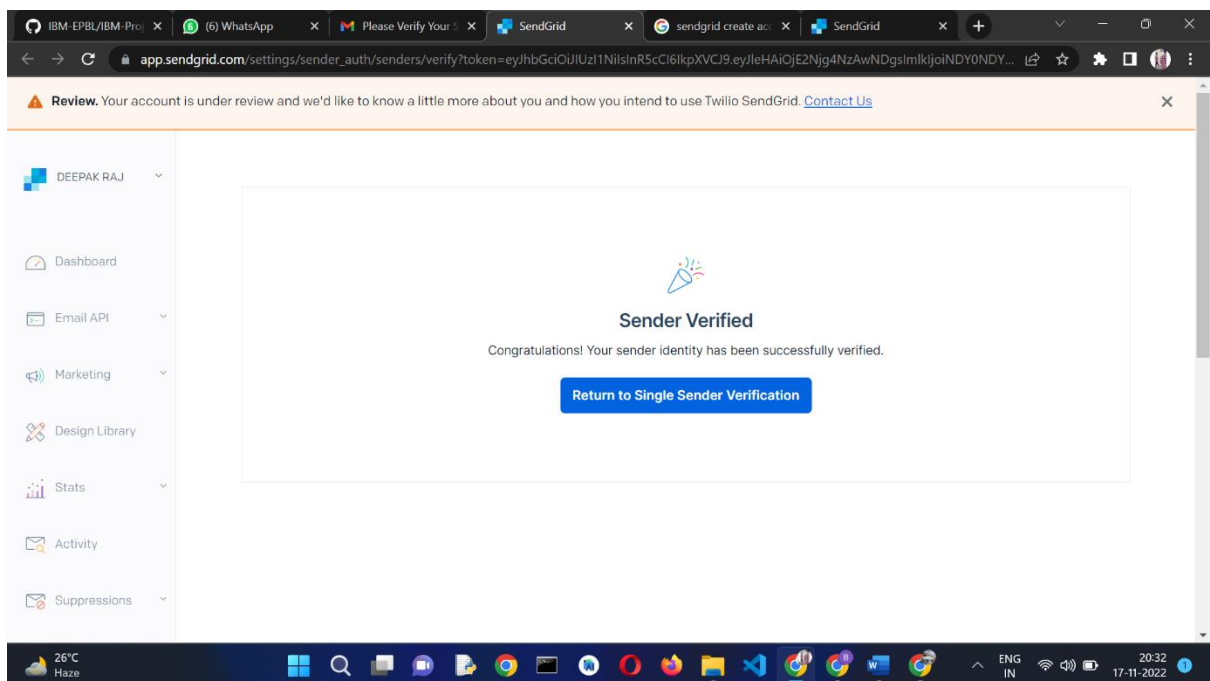


Click on create single sender, then follow the instructions on webpage .

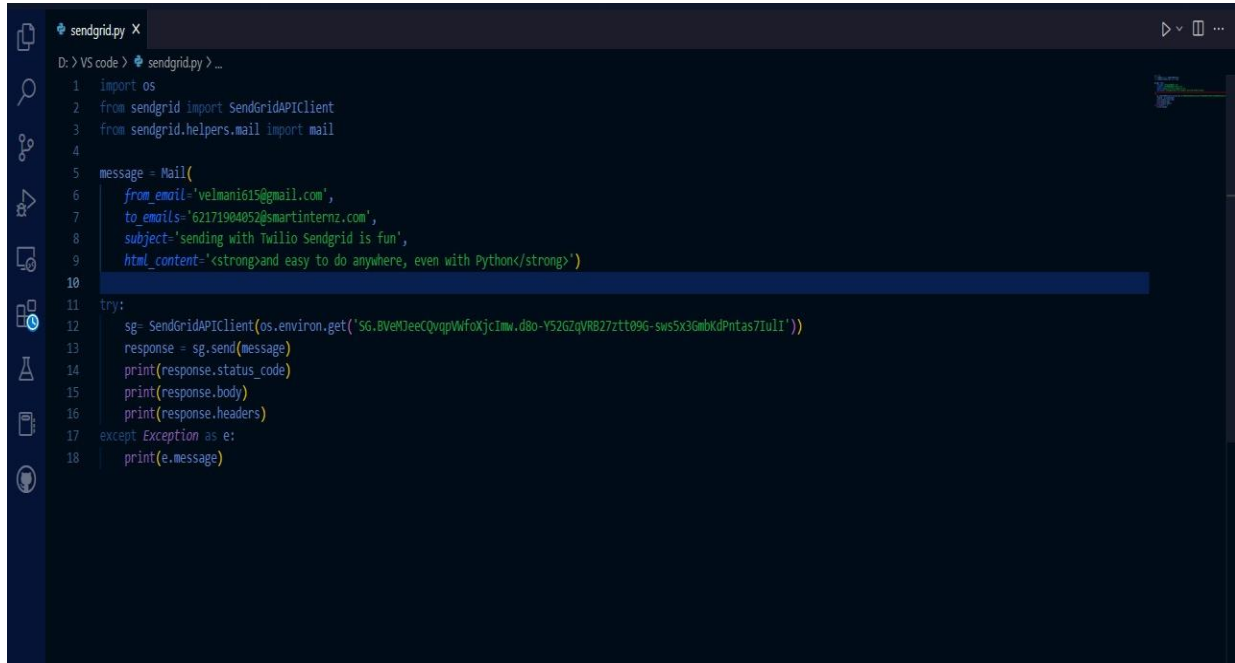
## 5. Verify the mail :



## 6. Verification completed :



## SENDGRID INTEGRATION WITH PYTHON CODE

A screenshot of a Visual Studio Code editor window with a dark theme. The file name 'sendgrid.py' is visible in the top-left tab. The editor shows Python code for integrating SendGrid. The code includes imports for 'os', 'SendGridAPIClient', and 'mail'. It creates a 'message' object with email details and an HTML body. A 'try' block initializes a 'SendGridAPIClient' with an API key from environment variables, sends the message, and prints the response details. An 'except' block handles any exceptions.

```
1 import os
2 from sendgrid import SendGridAPIClient
3 from sendgrid.helpers.mail import mail
4
5 message = Mail(
6     from_email='velmani615@gmail.com',
7     to_emails='62171904052@smartinternz.com',
8     subject='sending with Twilio Sendgrid is fun',
9     html_content='<strong>and easy to do anywhere, even with Python</strong>')
10
11 try:
12     sg= SendGridAPIClient(os.environ.get('SG.BVeWJecQvqpVwfoxjcImm.d8o-Y52GZqVR827zt09G-sws5x3GmbKdPntas7Iu1I'))
13     response = sg.send(message)
14     print(response.status_code)
15     print(response.body)
16     print(response.headers)
17 except Exception as e:
18     print(e.message)
```