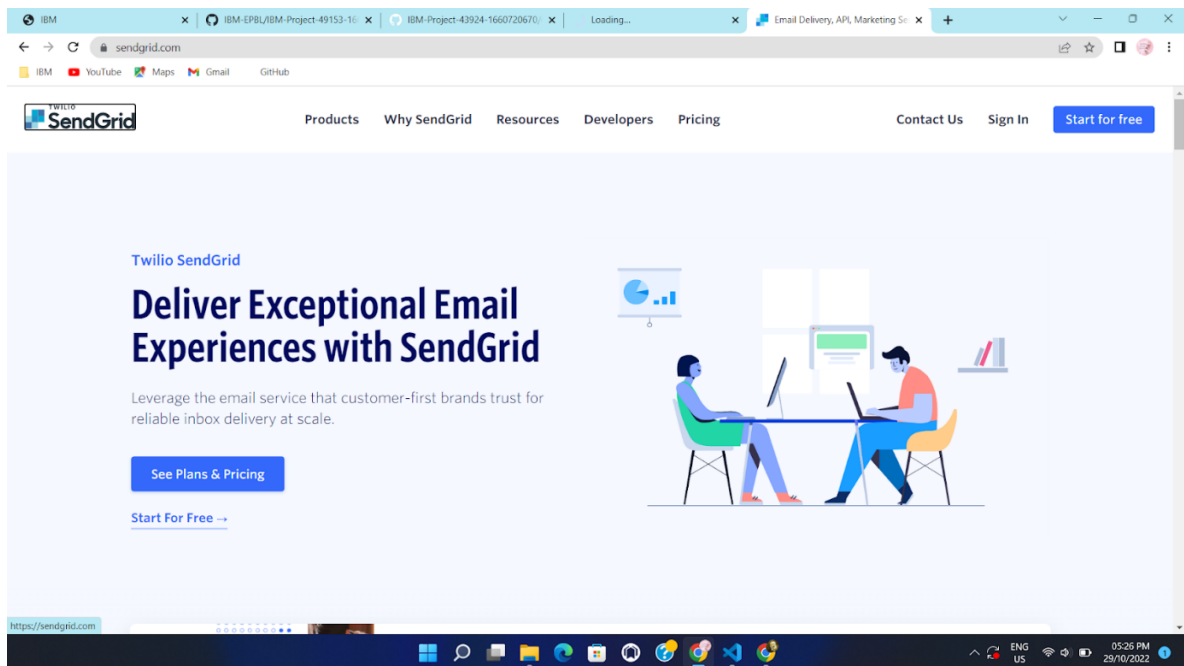


INTEGRATING SENDGRID SERVICE

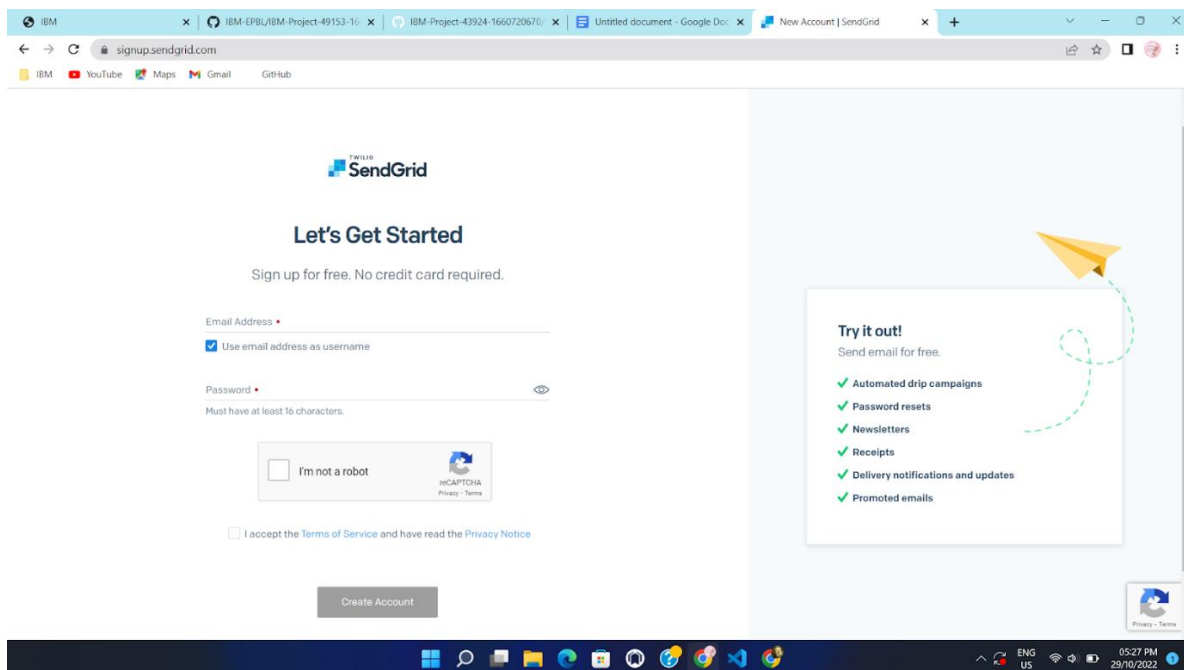
SENDGRID INTEGRATION WITH PYTHON CODE

TEAM ID	PNT2022TMID52257
PROJECT NAME	Smart Fashion Recommender Application

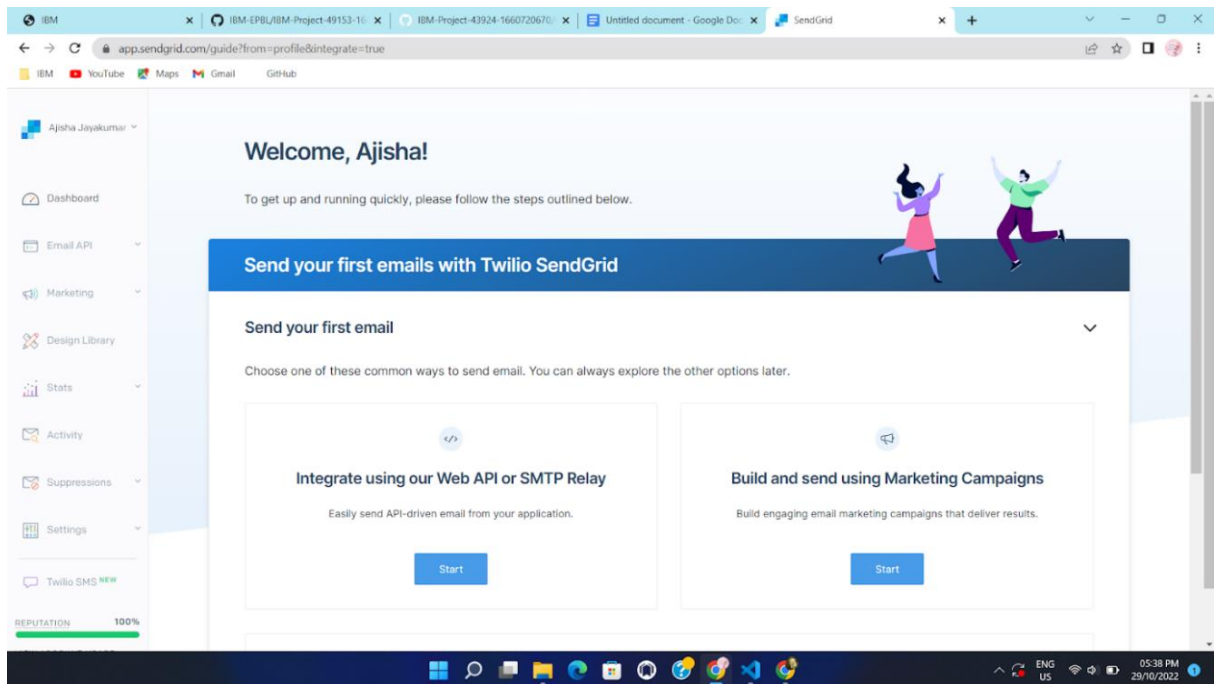
Navigate to <https://sendgrid.com> and click on start for free



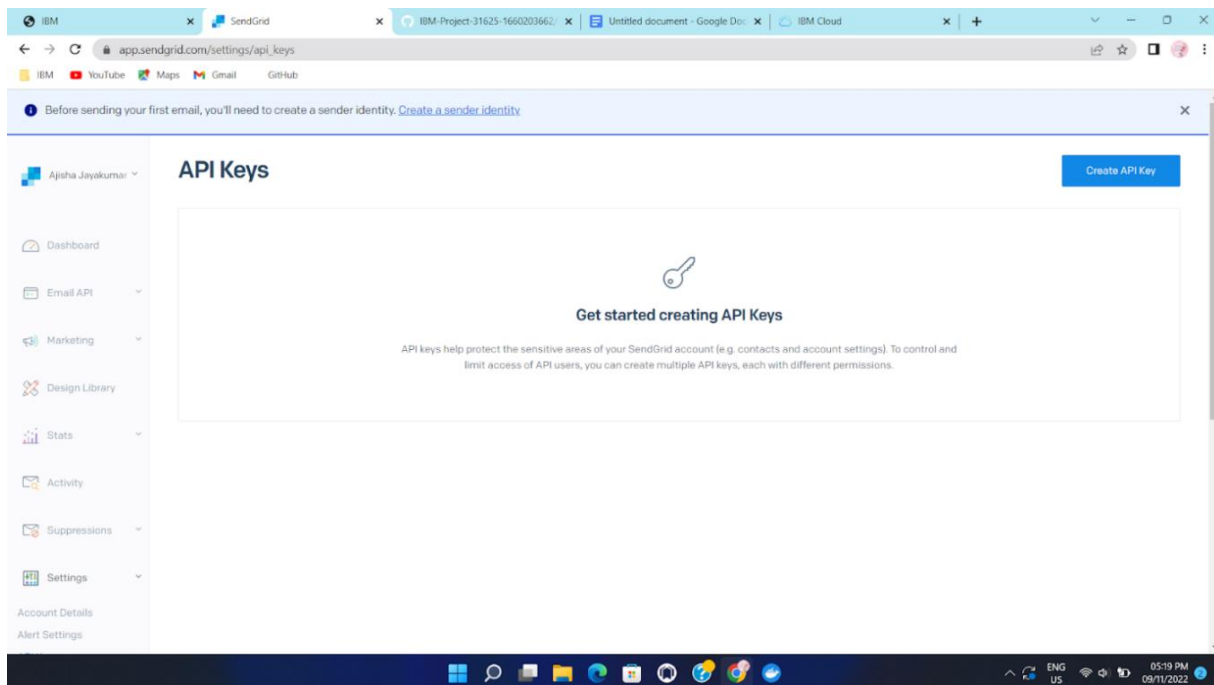
The below page appears as we click on start for free, fill email address and set a password of 16 digits and click on “Create Account”.

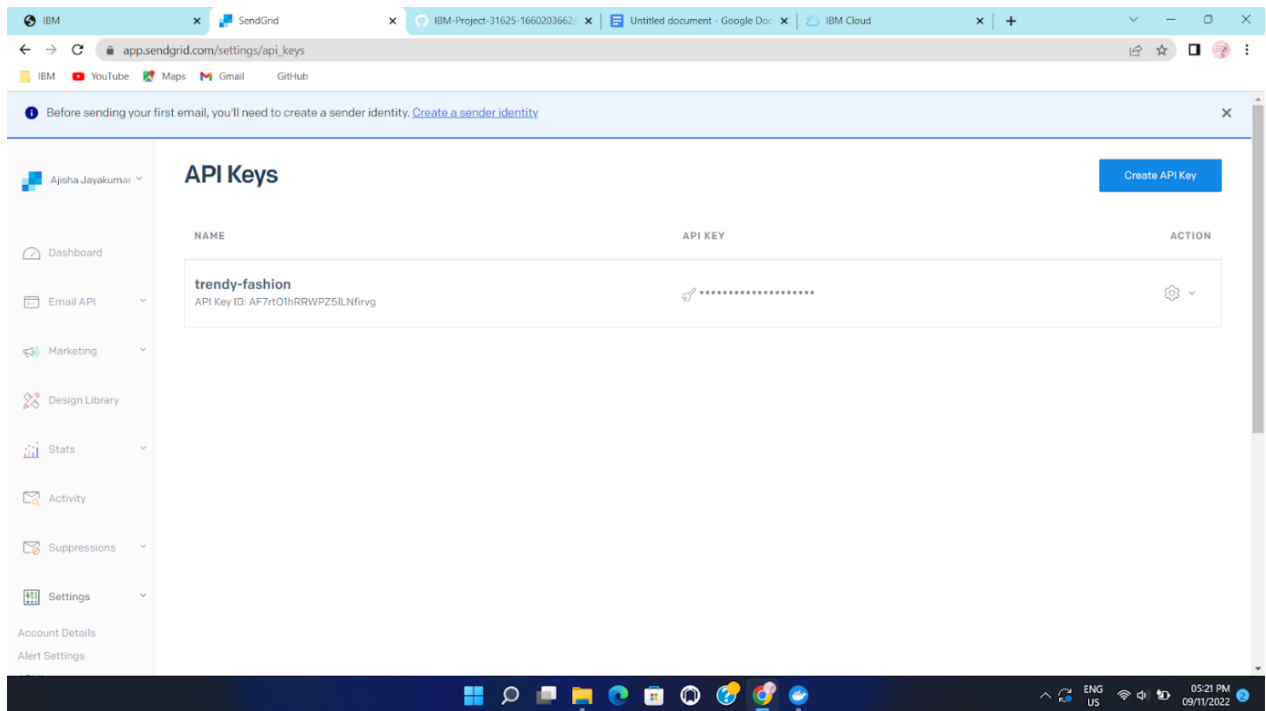


Add on additional information being asked and click on “Get Started”.

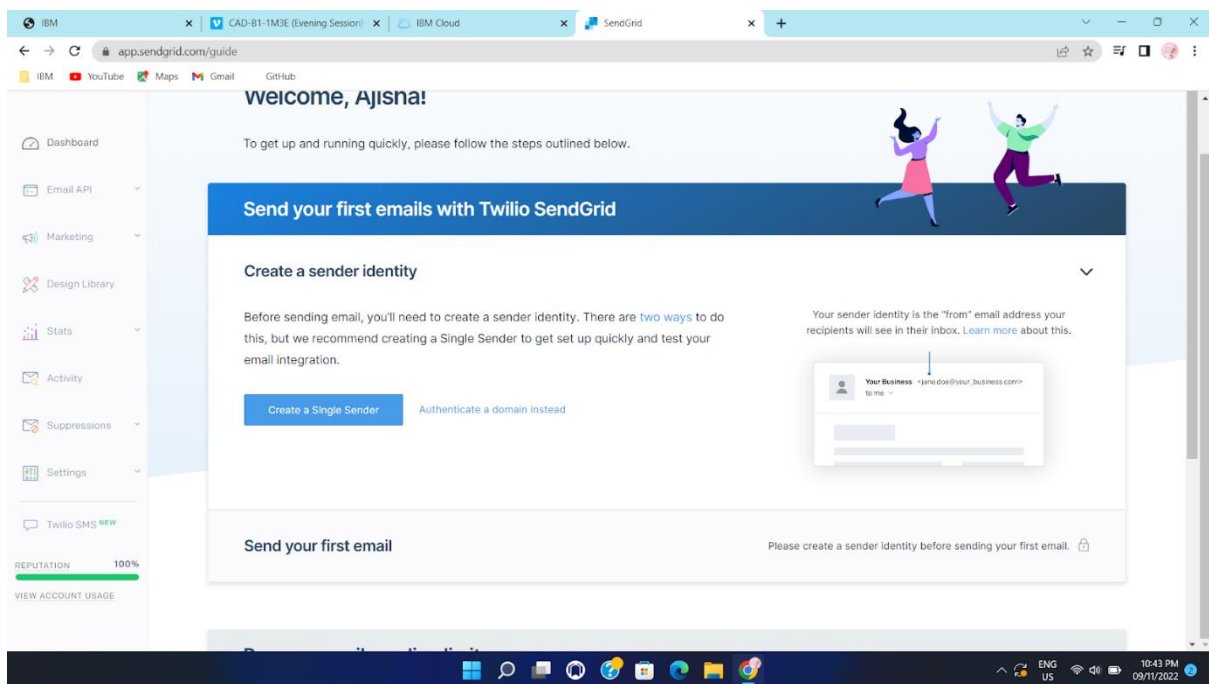


Creating API Keys to Create a Sender Identity





Account is being created and the dashboard looks as below,



Install sendgrid in PowerShell:

```
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:\windows\system32> pip install sendgrid
Collecting sendgrid
  Downloading sendgrid-6.9.7-py3-none-any.whl (101 kB)
    -----101.1/101.1 kB 447.4 kB/s eta 0:00:00
Collecting python-http-client>=3.2.1
  Downloading python_http_client-3.3.7-py3-none-any.whl (8.4 kB)
Collecting starkbank-ecdsa>=2.0.1
  Downloading starkbank-ecdsa-2.2.0.tar.gz (14 kB)
  Preparing metadata (setup.py) ... done
Installing collected packages: starkbank-ecdsa, python-http-client, sendgrid
  DEPRECATION: starkbank-ecdsa is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
  Running setup.py install for starkbank-ecdsa ... done
Successfully installed python-http-client-3.3.7 sendgrid-6.9.7 starkbank-ecdsa-2.2.0

[notice] A new release of pip available: 22.3 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
PS C:\windows\system32>
```

Single Sender Verification:

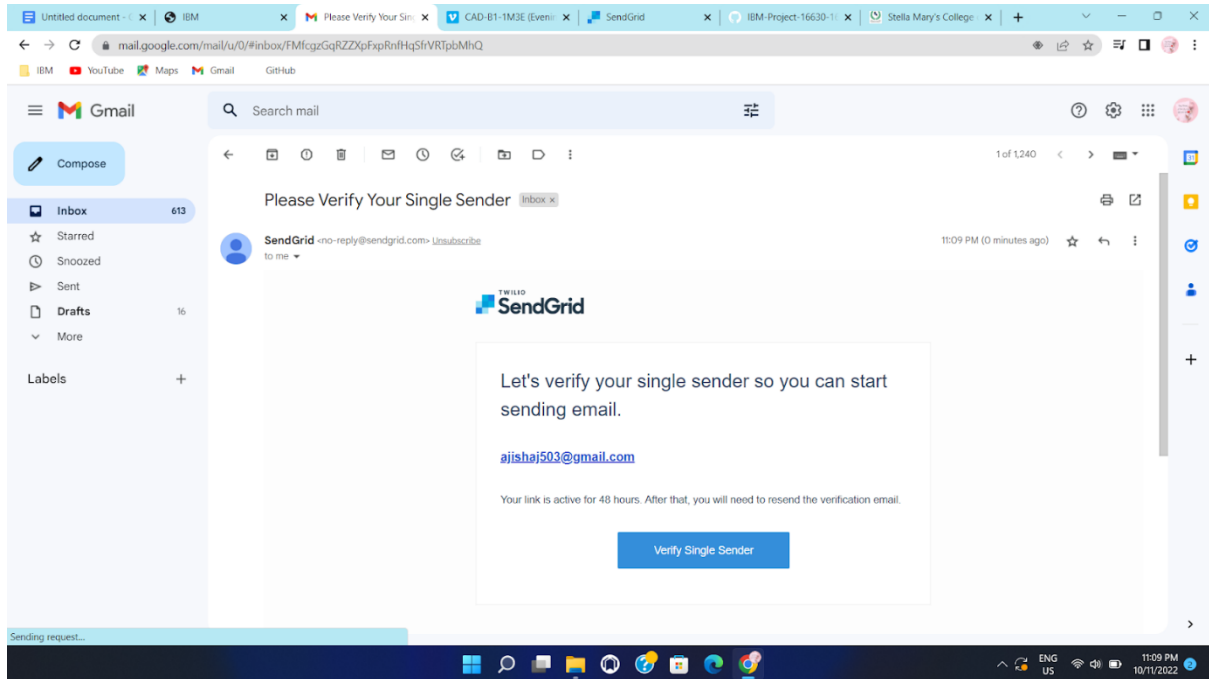
Sender Authentication / Single Sender Verification ⓘ

SENDERS	ADDRESS
Ajisha	stella marys
FROM: ajishaj503@gmail.com	https://www.stellamaryscoe.edu
REPLY: amirenjai@gmail.com	nagercoil, IND

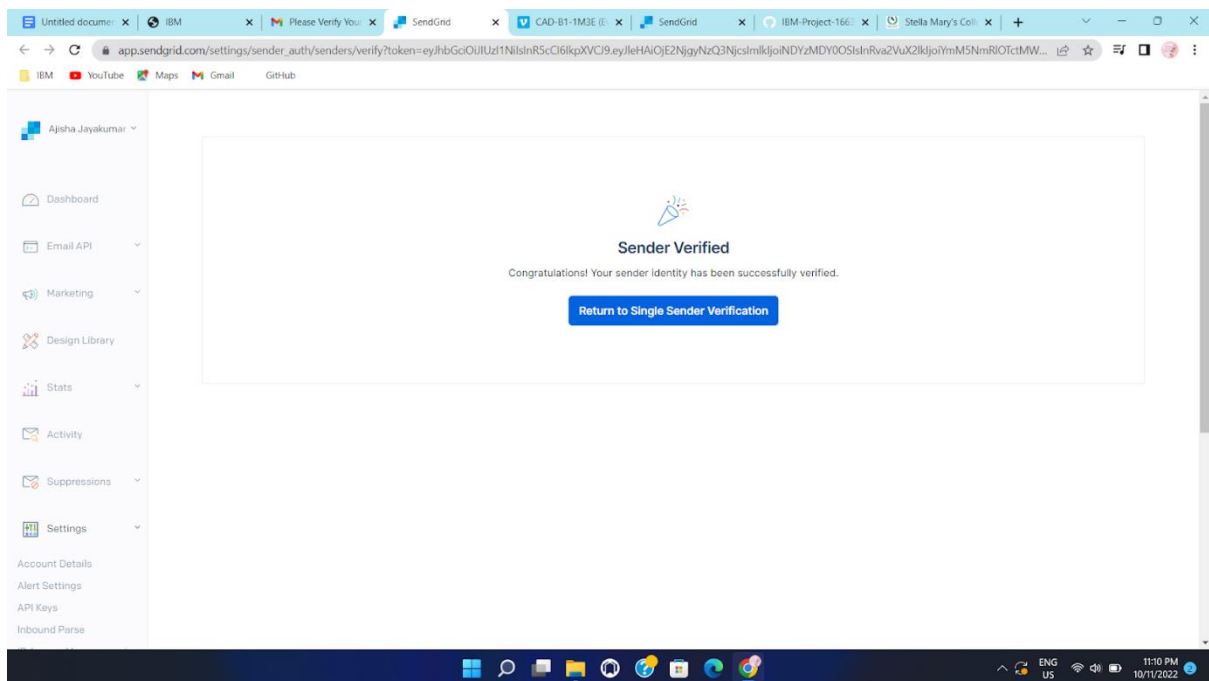
Sender has been created
To verify sender identity, check your inbox at ajishaj503@gmail.com.

Resend email Close

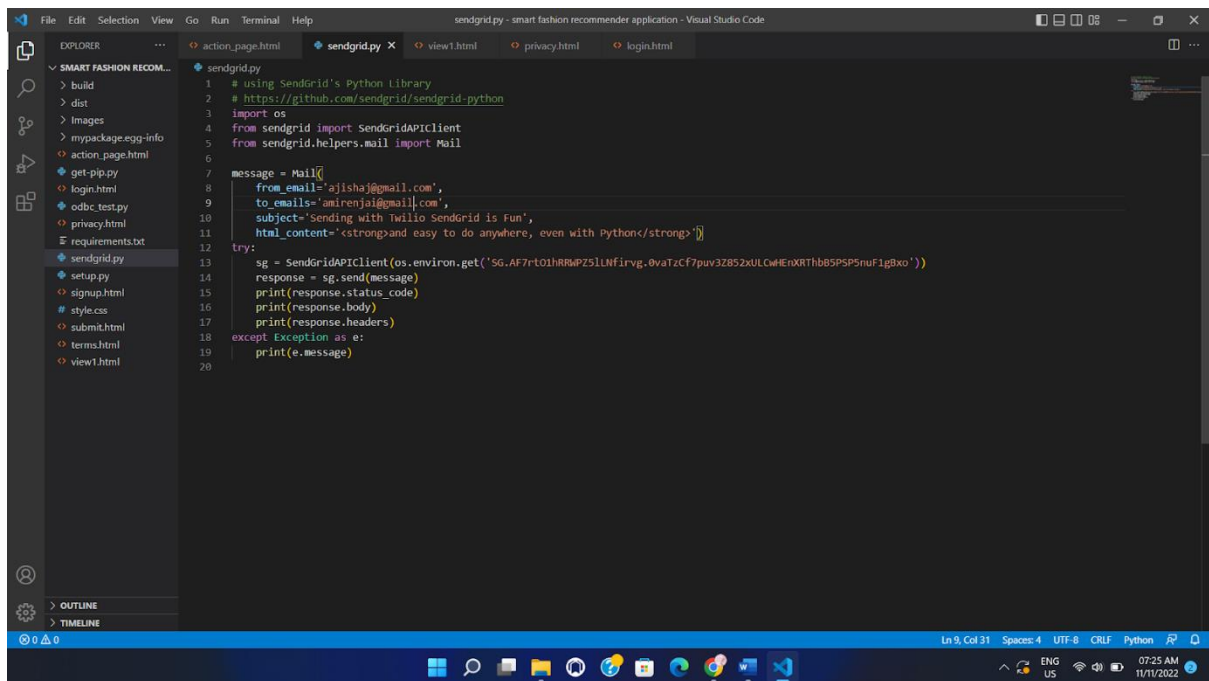
Verifying Single Sender in Sendgrid:



Now, Single Sender Identity is verified successfully:



Sendgrid integration with Python Code:



```
1 # using SendGrid's Python Library
2 # https://github.com/sendgrid/sendgrid-python
3 import os
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 message = Mail()
8     from_email='ajishaj@gmail.com',
9     to_emails='amirenjai@gmail.com',
10     subject='Sending with Twilio SendGrid is Fun',
11     html_content='<strong>and easy to do anywhere, even with Python</strong>')
12
13 try:
14     sg = SendGridAPIClient(os.environ.get('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'))
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)
```