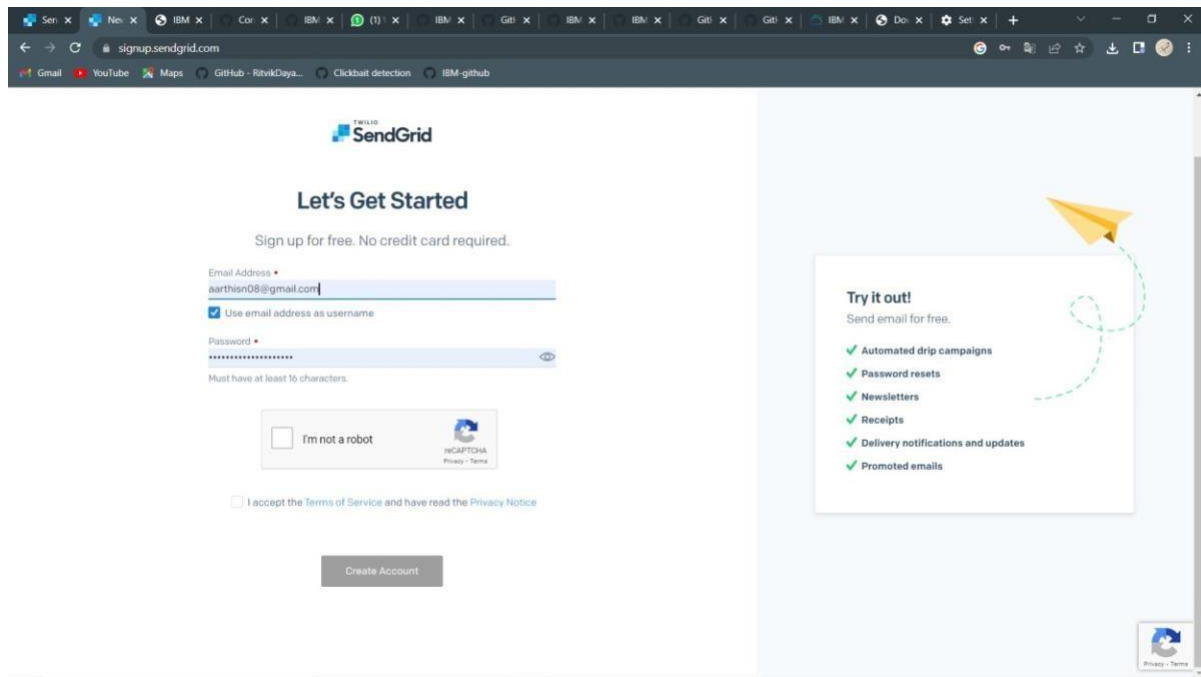


# Sendgrid integration with python code

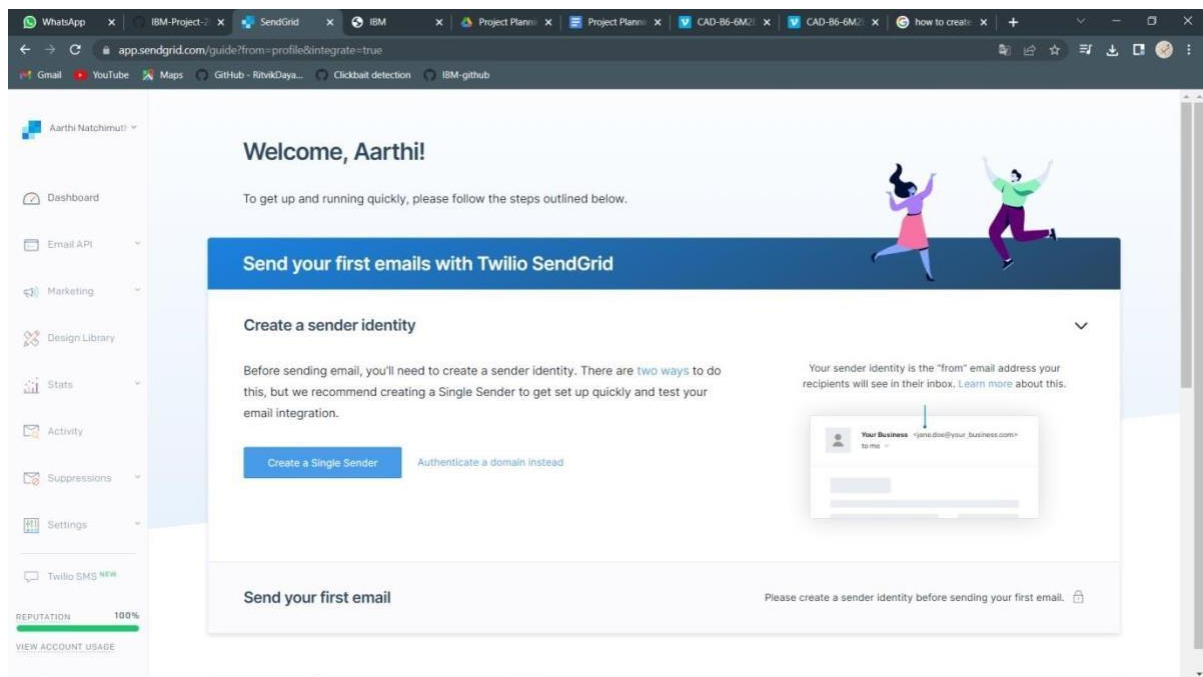
Date	31October 2022
Team ID	PNT2022TMID14519
Project Name	Project – Inventory Management System for Retailers

## CREATE AN ACCOUNT IN SENDGRID

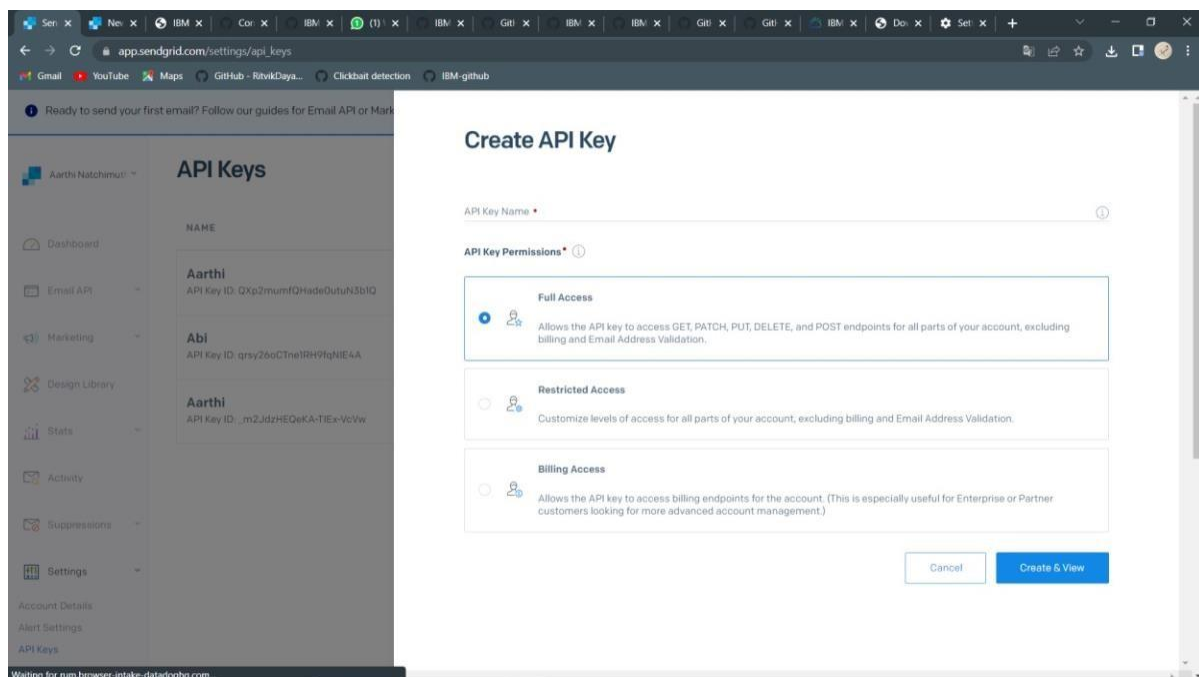
To create a account, click on the [start for free button](#) and click sign up and enter the email id and password.

A screenshot of the SendGrid sign-up page in a web browser. The browser's address bar shows 'signup.sendgrid.com'. The page has a light blue background. At the top, the SendGrid logo is visible. Below it, the heading 'Let's Get Started' is followed by the text 'Sign up for free. No credit card required.' The sign-up form includes an 'Email Address' field with 'aarthian08@gmail.com' entered, a checked checkbox for 'Use email address as username', and a 'Password' field with masked characters. A note below the password field states 'Must have at least 16 characters.' There is a reCAPTCHA widget with the text 'I'm not a robot' and a checkbox. Below the reCAPTCHA, there is a checkbox for 'I accept the Terms of Service and have read the Privacy Notice'. A 'Create Account' button is at the bottom of the form. On the right side of the page, there is a 'Try it out!' section with the text 'Send email for free.' and a list of features: 'Automated drip campaigns', 'Password resets', 'Newsletters', 'Receipts', 'Delivery notifications and updates', and 'Promoted emails'. A yellow paper airplane icon is shown flying towards the right.

This is the home page of sendgrid website after signing in into the account.



After signing in into your account, create a API key.



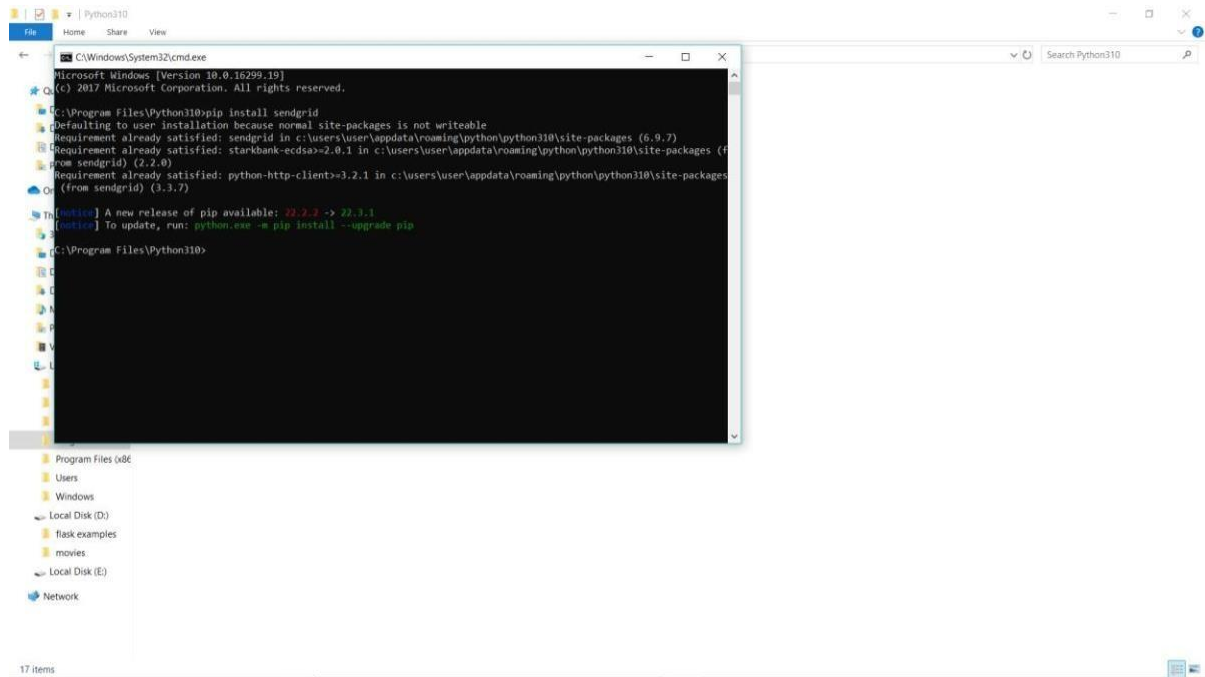
## INTEGRATING SENDGRID WITH PYTHON CODE:

The next thing is to verify our email. We can verify our email in two ways, either by single sender verification or domain verification.

After verifying the emails, next install the Sendgrid Python library.

You can easily install it using pip by running the following command in your terminal.

```
$ pip install sendgrid
```



```
Microsoft Windows [Version 10.0.16299.19]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Program Files\Python310>pip install sendgrid
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: sendgrid in c:\users\user\appdata\roaming\python\python310\site-packages (6.9.7)
Requirement already satisfied: starkbank-ecdsa>=2.0.1 in c:\users\user\appdata\roaming\python\python310\site-packages (from sendgrid) (2.2.0)
Requirement already satisfied: python-http-client>=3.2.1 in c:\users\user\appdata\roaming\python\python310\site-packages (from sendgrid) (3.3.7)

[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Program Files\Python310>
```

Now let us create a simple program in python to send an email.

```
import os from sendgrid import SendGridAPIClient from sendgrid.helpers.mail import Mail message = Mail( from_email='jagadeep123@gmail.com',to_emails='bhavana28@gmail.com',
subject='Sending with Twilio SendGrid is Fun',
html_content='<strong>and easy to do anywhere, even with Python</strong>') try:sg =
SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
response = sg.send(message)print(response.status_code)print(response.body)print(response.headers) except Exception as e:print(e.message)
```