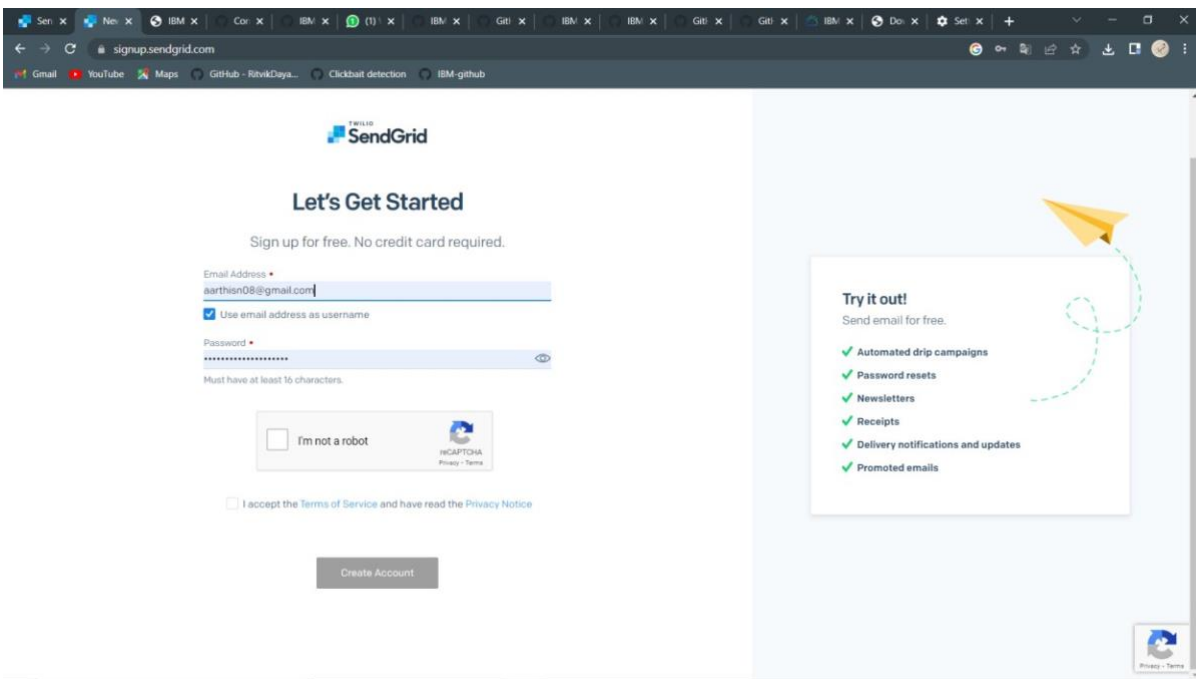


# Sendgrid integration with python code

Date	31October 2022
Team ID	PNT2022TMID26359
Project Name	Project – Inventory Management System for Retailers

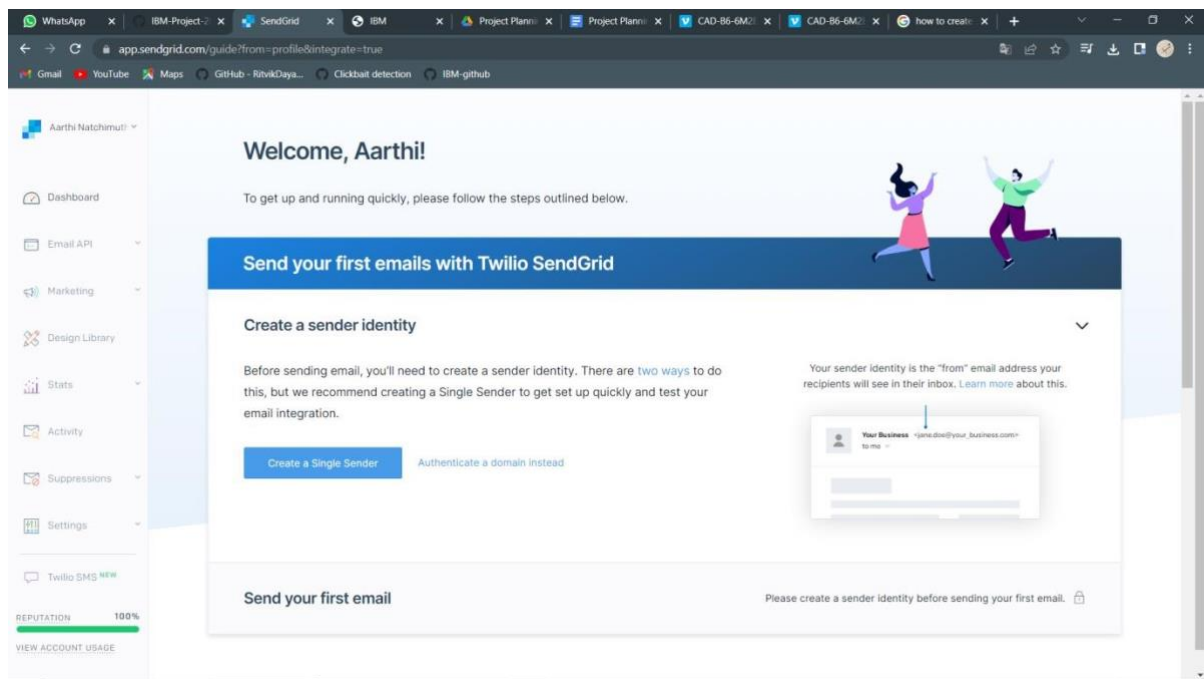
## CREATE AN ACCOUNT IN SENDGRID

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

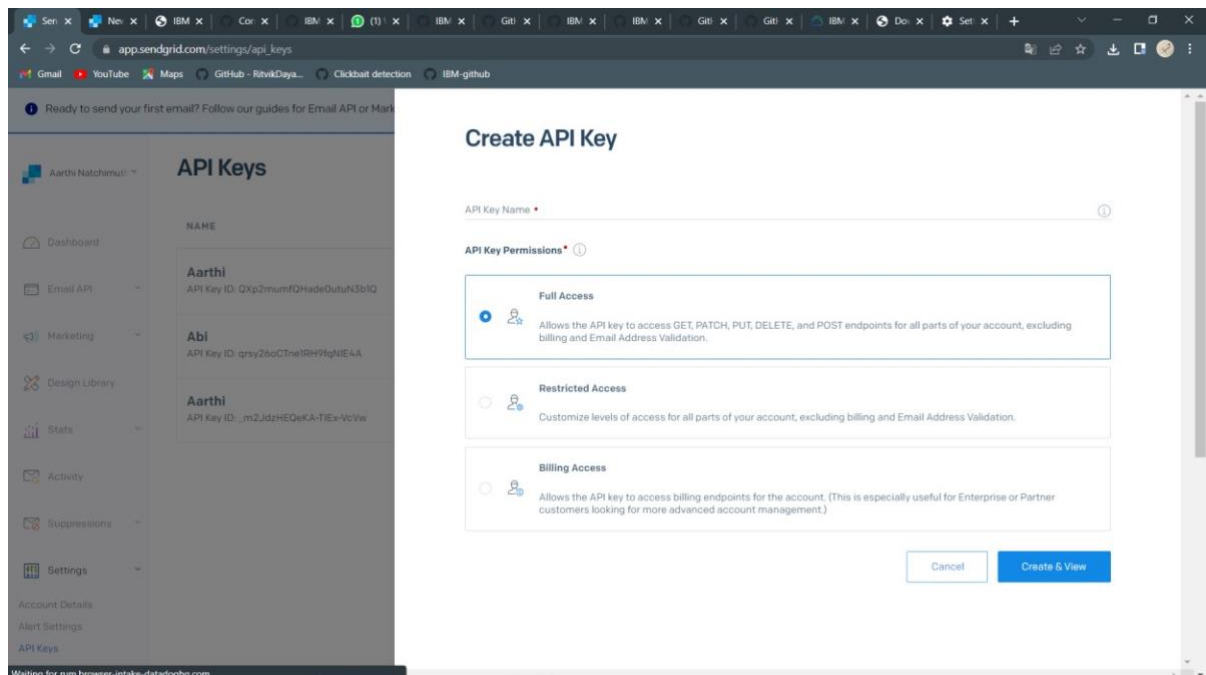


The screenshot shows the SendGrid sign-up page in a web browser. The page has a light blue background with the SendGrid logo at the top. The main heading is "Let's Get Started" with the subtext "Sign up for free. No credit card required." Below this, there are input fields for "Email Address" (containing "aarthens08@gmail.com") and "Password" (with a strength indicator). A checkbox labeled "Use email address as username" is checked. There is a "I'm not a robot" checkbox and a CAPTCHA image. At the bottom, there is a "Create Account" button. On the right side, there is a "Try it out!" section with a list of features: "Automated drip campaigns", "Password resets", "Newsletters", "Receipts", "Delivery notifications and updates", and "Promoted emails". A yellow paper airplane icon is also visible.

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



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



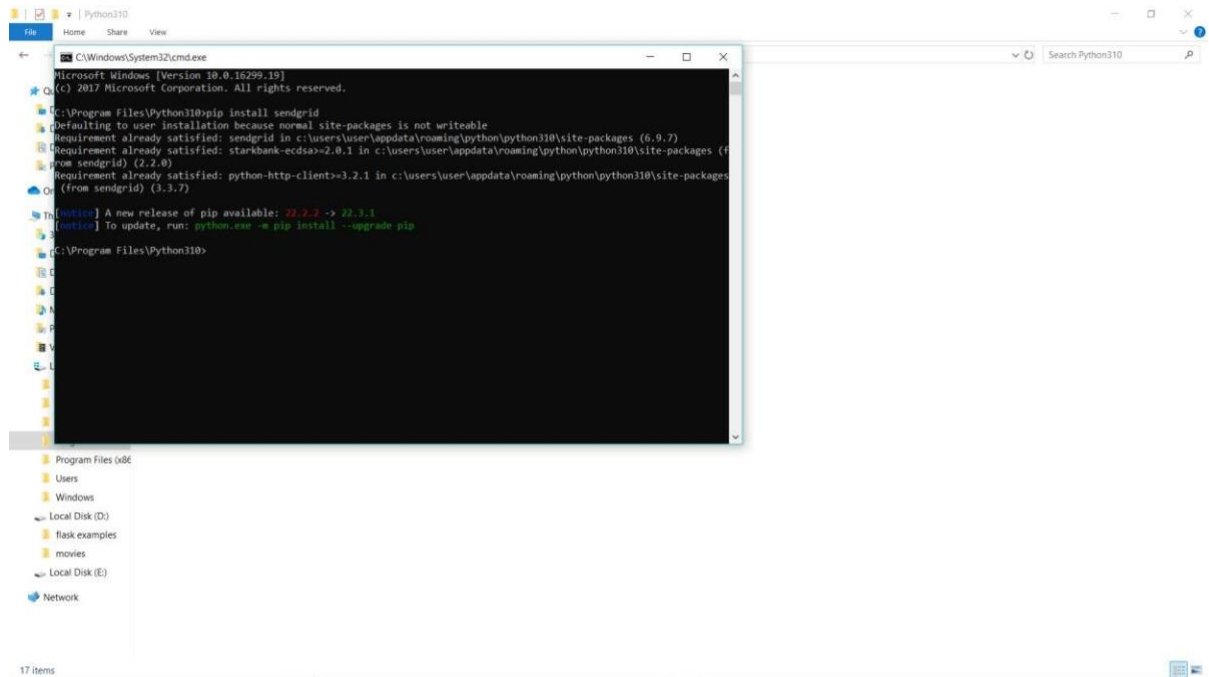
## INTEGRATING SENDGRID WITH PYTHON CODE:

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
```



The screenshot shows a Windows File Explorer window with a command prompt window open. The command prompt window title is "C:\Windows\System32\cmd.exe". The command executed is "C:\Program Files\Python310\pip install sendgrid". The output shows that the installation was successful, with requirements for sendgrid, starkbank-ecdsa, and python-http-client already satisfied. A notice for a new release of pip (22.2.2 to 22.3.1) is also displayed.

```
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) (2.0.0)
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)
```