INTEGRATING SENDGRID SERVICE

SENDGRID INTEGRATION WITH PYTHON

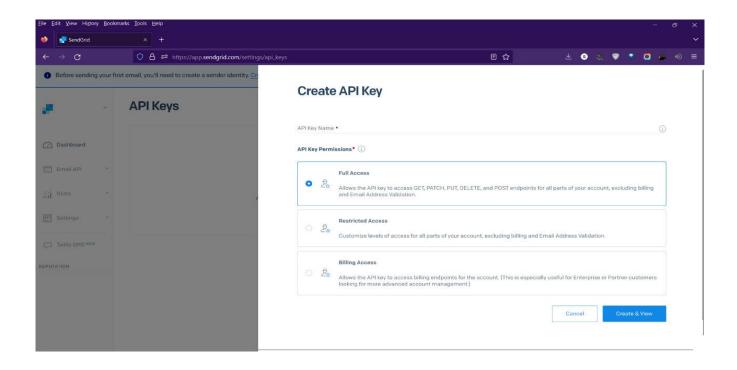
Date	20 October 2022
Team ID	PNT2022TMID54054
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

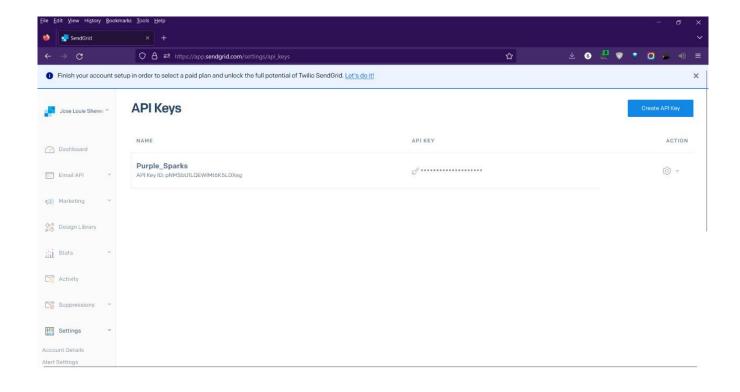
SENDGRID INTEGRATION WITH PYTHON:

SendGrid's cloud-based email infrastructure relieves businesses of the cost and complexity of maintaining custom email systems. SendGrid provides reliable delivery, scalability and real-time analytics along with flexible APIs that make custom integration simple.

In Smart Fashion Recommender Application, SendGrid has been used for sending the order confirmation mail for the customer to get further details regarding their products. It will also be used in the Register / Login Process, where need to authenticate the details by conforming the OTP / SendGrid Mail.

STEP 1: Create API Key in SendGrid





STEP 2: Install SendGrid using PIP

```
Administrator Command Prompt

Wicrosoft Unidows (Version 19.8, 22000, 1279)

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C:\WINDOWS\system32>pip install sendgrid

Collecting sendgrid

Downloading sendgrid-6.9,7-py3-none-any.whl (101 k8)

101.1/101.1 k8 726.5 k8/s eta 0:00:00

Collecting starkbank-ecdsa>z.0.0 tan.gz (14 k8)

Preparing metadata (setup.py) ... done

Collecting python-http-client>=3.2.1

Downloading python_http_client>=3.2.1

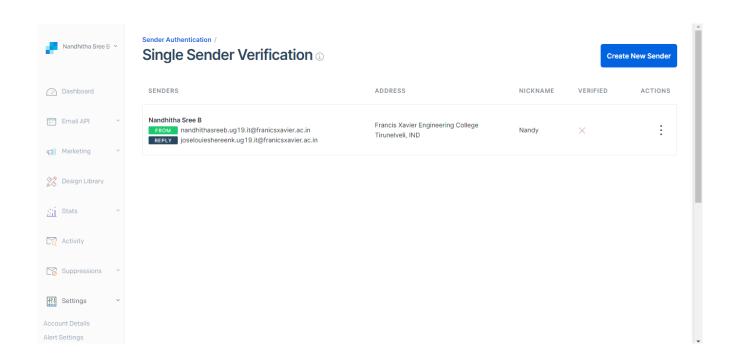
Downloading python_http_client>=3.2.2.0 tan.gz (14 k8)

Building wheels for collected packages: starkbank-ecdsa

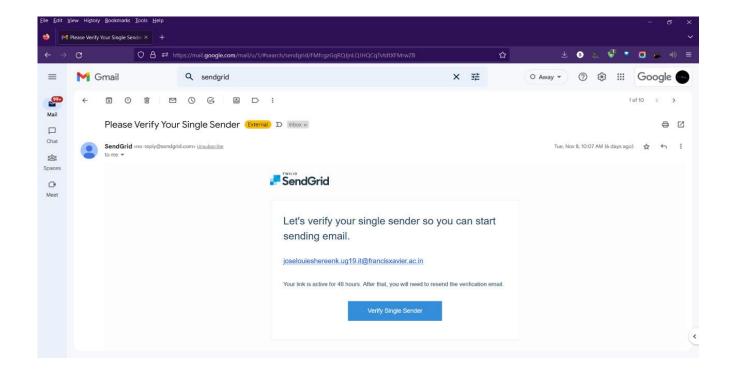
Building wheel for starkbank-ecdsa (setup.py) ... done

Created wheel for starkbank-ecdsa (setup.py) ... done
```

STEP 3: Create Single Sender on SendGrid



STEP 4: Single Sender Verification



STEP 5: SendGrid Integration with Python Code

```
*S:\Nalaiya Thiran\demo.py - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
 ] 🚽 🗎 🖫 🤚 😘 🦓 🖟 🖟 🖟 👚 😭 😭 😭 😭 😭 😭 😭 😭 🖟 😭 🖫 🖟 🖟 😭 😭 😭 💮 🗷 🗎 🖫 🖂
emo.py
        from sendgrid import SendGridAPIClient
        from sendgrid.helpers.mail import Mail
       message = Mail(
            from_email='joselouieshereenk.ug19.it@francisxavier.ac.in',
            to_emails='nandhithasreeb@gmail.com',
            subject='Successfully Registered',
            html content='<strong>Welcome to Purple Sparks...<br/>br>Your account has been successfully registered...</strong>')
      Etry:
            sg = SendGridAPIClient(os.environ.get('SENDGRID_API KEY'))
            response = sg.send(message)
            print(response.status_code)
  14
            print(response.body)
            print(response.headers)
  16
       except Exception as e:
           print(e.message)
Python file
                                                    length: 611 lines: 17
                                                                            Ln:17 Col:21 Pos:612
                                                                                                         Windows (CR LF) UTF-8
```

STEP 6: Run Python Code on Command Prompt

```
S:\Nalaiya Thiran>python demo.py
202 b'' Server: nginx
Date: Mon, 14 Nov 2022 14:49:40 GMT
Content-length: 0
Connection: close
X-Message-Id: EF9kPThKT@WnBpY6Mxfj5w
Access-Control-Allow-Origin: https://sendgrid.api-docs.io
Access-Control-Allow-Hethods: POST
Access-Control-Allow-Age: 600
X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
Strict-Transport-Security: max-age=600; includeSubDomains

S:\Nalaiya Thiran>_

S:\Nalaiya Thiran>_
```

STEP 7: Output as Mail Successfully Send

