#### **INTEGRATING SENDGRID SERVICE**

### SENDGRID INTERGRATION WITH PYTHON

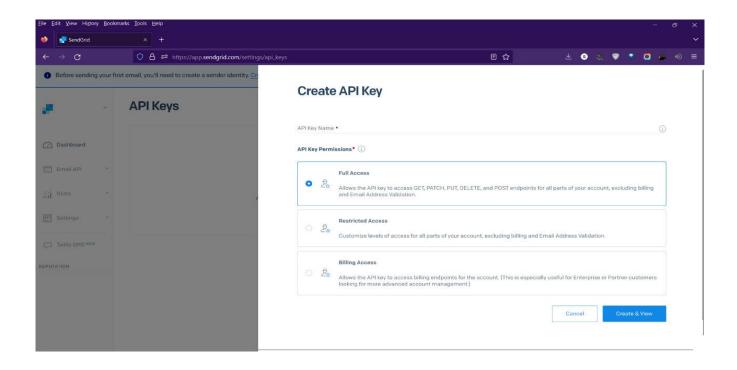
Date	20 October 2022
Team ID	PNT2022TMID54054
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

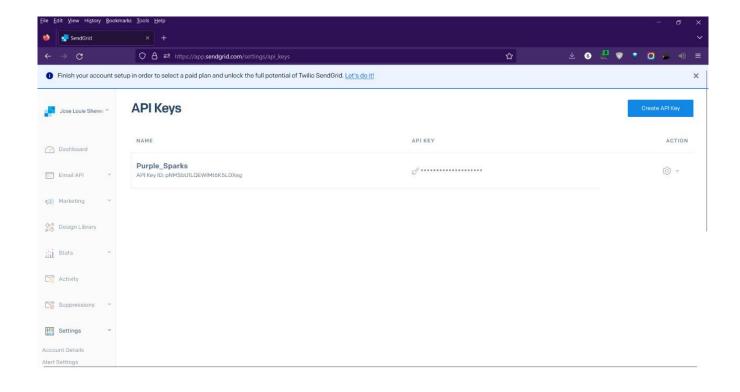
#### **SENDGRID INTERGRATION WITH PYTHON:**

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.

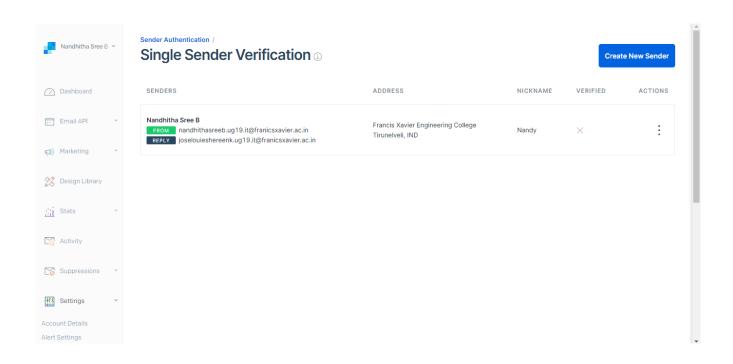
## **STEP 1: Create API Key in SendGrid**



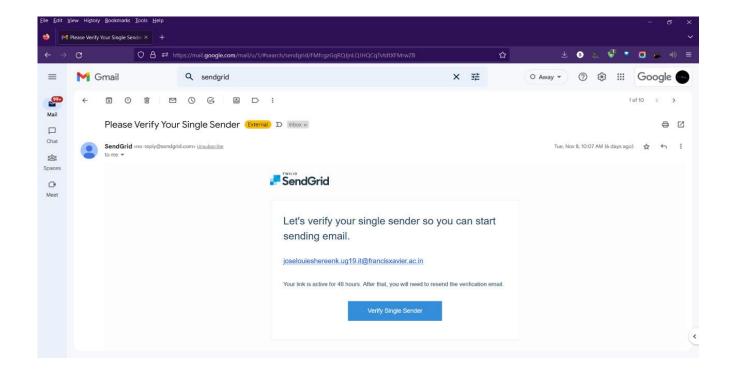


## **STEP 2: Install SendGrid using PIP**

# **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

