

# Integrating SendGrid Service

<b>Team ID</b>	PNT2022TMID16287
<b>Project Name</b>	Personal Expense TrackerApplication
<b>Team Members</b>	Manasha P, Nukalapati Thanusha, Priya M, Ramya J

## Screenshots:

### Downloading SendGrid

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22621.819]
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C:\Windows\System32>setx SENDGRID_API_KEY "SG.RdWP5ZXTUmpLuAOCYNE5A.idVa7kRsm1oBmAPp7X9ch6P6r_GrCPo2BA1QcESinHI"
SUCCESS: Specified value was saved.

C:\Windows\System32>pip install sendgrid
Collecting sendgrid
  Downloading sendgrid-6.9.7-py3-none-any.whl (101 kB)
    ----- 101.1/101.1 KB 5.7 MB/s eta 0:00:00
Collecting starkbank-ecdsa>=2.0.1
  Downloading starkbank-ecdsa-2.2.0.tar.gz (14 kB)
  Preparing metadata (setup.py) ... done
Collecting python-http-client>=3.2.1
  Downloading python_http_client-3.3.7-py3-none-any.whl (8.4 kB)
Using legacy 'setup.py install' for starkbank-ecdsa, since package 'wheel' is not installed.
Installing collected packages: starkbank-ecdsa, python-http-client, sendgrid
  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
```

### Confirmation mail sent using SendGrid

When the new user registers, the confirmation mail is sent to the user's mail using the SendGrid.

```
demo.py > ...
1 import sendgrid
2 import os
3 from sendgrid.helpers.mail import *
4
5 sg = sendgrid.SendGridAPIClient(api_key=os.environ.get('SENDGRID_API_KEY'))
6 from_email = Email("vela19226.it@rmkcc.ac.in")
7 to_email = To("megat9124.it@rmkcc.ac.in")
8 subject = "Sending with SendGrid is fun"
9 content = Content("text/plain", "and easy to do anywhere, even with Python")
10 mail = Mail(from_email, to_email, subject, content)
11 response = sg.client.mail.send.post(request_body=mail.get())
12 print(response.status_code)
13 print(response.body)
14 print(response.headers)
```

```
1 def register:
2     msg = ''
3     print("Break point1")
4     if request.method == 'POST' :
5         name = request.form['username']
6         email = request.form['email']
7         password = request.form['password']
8         msg = Message('Registration Verification',recipients=[email])
9         msg.body = ('Congratulations! Welcome user!')
10        msg.html = ('<h1>Registration Verification</h1>''<p>Congratulations! Welcome user!''<b>PETA</b>!</p>')
11        mail.send(msg)
12
```

**Alert mail sent using SendGrid**

```
sendmail.py > ...
1 import smtplib
2 import sendgrid as sg
3 import os
4 from sendgrid.helpers.mail import Mail, Email, To, Content
5 SUBJECT = "expense tracker"
6 s = smtplib.SMTP('smtp.gmail.com', 587)
7 def sendmail(TEXT,email):
8     print("sorry we cant process your candidature")
9     s = smtplib.SMTP('smtp.gmail.com', 587)
10    s.starttls()
11    s.login("demo123demo987", "aafdjdkdhkruybc")
12    message = 'Subject: {}'.format(SUBJECT, TEXT)
13    s.sendmail("demo123demo987@gmail.com", email, message)
14    s.quit()
15
```



