

# INTEGRATING SENDGRID SERVICE

## Sendgrid Integration with Python code

Team ID	PNT2022TMID03825
Project Name	Inventory Management For Retailers

### SendGrid Service Integration:

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sendGrid.py x
F:\Project> IBM_Nalalyathiran > Github > Sprint-2 > sendGrid.py > ...
1 from sendgrid import SendGridAPIClient, Mail
2 import os
3 from dotenv import load_dotenv
4 import ibm_db
5
6 load_dotenv()
7
8
9 def mailto(email, subject, content):
10     message = Mail(from_email='', to_emails=email,
11                   subject=subject, html_content='<strong> {} </strong>'.format(content))
12     try:
13         sg = SendGridAPIClient(os.getenv('SENDGRID_API_KEY'))
14         response = sg.send(message)
15         print(response.status_code)
16         print(response.body)
17         print(response.headers)
18     except Exception as e:
19         print(e.message)
20
21 def checkstatus(userDB, email, username):
22     sql = "SELECT th_value FROM threshold_value WHERE email='{}'".format(email)
23     stmt = ibm_db.exec_immediate(userDB, sql)
24     res = ibm_db.fetch_assoc(stmt)
25     th_value = int(res['TH_VALUE'])
26     sql = "SELECT * FROM USERPRODUCTS WHERE username='{}'".format(username)
27     stmt = ibm_db.exec_immediate(userDB, sql)
28     res = ibm_db.fetch_assoc(stmt)
29     while res != False:
30         curr_stocks = int(res['AVAILABLESTOCK'])
31         if curr_stocks < th_value:
32             pid = res['PRODUCTID']
33             sql = "SELECT productname FROM PRODUCTS WHERE productid='{}'".format(pid)
34             stmt = ibm_db.exec_immediate(userDB, sql)
35             res = ibm_db.fetch_assoc(stmt)
36             prod_name = res['PRODUCTNAME']
37             mailto(email, "threshold alert", "Alert! product '{}' available stocks had dropped below the threshold limit '{}'".format(prod_name, th_value))
38             res = ibm_db.fetch_assoc(stmt)
```

### Email Alerts:

