

INTEGRATING SENDGRID SERVICE

Team ID	PNT2022TMID22388
Project Name	Inventory Management System for Retailers

1. Create an account on SendGrid:

After entering the website, click on the start for free button and you will be redirected to the registration page. Enter the email and password to create an account.

The screenshot displays the 'Account Details' page in the SendGrid dashboard. The left sidebar contains navigation links: Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, and Settings. The 'Account Details' section is active, showing tabs for Account, Billing, and Your Products. Under 'Your Account', there is a 'Personal Info' section with fields for Username (inventorymanagementvsgp@gmail.com), Password, and Timezone (GMT-06:00 - Central Time, US & Canada America/Chicago). Below this is the 'Your Company' section with fields for Name (VSGPInventory), Address (Chennai, TN IN), and Website (inventorymanagementvsgp@gmail.com). Each field has an edit icon.

2. Create an API key

After we have successfully created our account, the next step is to create an API key so that we can use it in our python code to communicate with our account.

The screenshot shows the 'API Keys' page in the SendGrid dashboard. At the top right is a 'Create API Key' button. Below it is a table with columns: NAME, API KEY, and ACTION. The table contains one entry with the name 'email' and a masked API key. The ACTION column has a gear icon and a dropdown arrow.

3. Integrating SendGrid using python code:

```
import smtplib
import os
from dotenv import load_dotenv
from email.mime.multipart import MIMEMultipart
from email.mime.text import MIMEText
from email.mime.base import MIMEBase

def alert(main_msg):
    mail_from = ' '
    mail_to = ' '
    msg = MIMEMultipart()
    msg['From'] = mail_from
    msg['To'] = mail_to
    msg['Subject'] = '!Alert Mail On Product Shortage! - Regards'
    mail_body = main_msg
    msg.attach(MIMEText(mail_body))
    print(msg)

    try:
        server = smtplib.SMTP_SSL('smtp.sendgrid.net', 465)
        server.ehlo()
        server.login('apikey', os.environ.get('SENDGRID_API_KEY'))
        server.sendmail(mail_from, mail_to, msg.as_string())
        server.close()
        print("Mail sent successfully!")
    except:
        print("Some Issue, Mail not Sent :(")
```