INVENTORY MANAGEMENT SYSTEM FOR RETAILERS

Domain: Cloud Application Development

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Send Grid Integration with python code

1. Create an account

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

account creation page

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.

API keys list

3. <u>Email verification</u>

The next thing we have to do is to verify our email which we will be using to send emails. We can verify our email in two ways, either by single sender verification or domain verification.

Coding:

```python
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 = '19z311@psgtech.ac.in'
    mail_to = 'dhanavandhanakannan3@gmail.com'
    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 :(")
```

The code example

Let us create a simple program in python to send an email. First, we have to install the SendGrid Python library. You can easily install it using pip by running the following command in your terminal.

```
$ pip install sendgrid
```

Once the package is installed, we can send emails using SendGrid. I have added a python code example below.

Conclusion

Hope this article is helpful. In addition to python, they also support other programming languages right out of the box.

Sample code:

```python
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 = '19z311@psgtech.ac.in'
    mail_to = 'dhanavandhanakannan3@gmail.com'
    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 :(")
```