Newsletter of Newsletters

Objective:

The main goal of this project is to help CEO's and all the higher hierarchical employees to stay relevant in what is happening in their industry.

Explanation:

All of us have subscribed to newsletters which we find relevant for us. So does all the higher hierarchical employees(CEO's, CTO's, CFO's). But, will they go through all the newsletters? It's a big question. The newsletter contains a summary of all the important news happening in that blog. So I came up with the solution, Newsletter of Newsletters. If we add the links of webpages to the python code I have created it will collect the newsletters of all the webpages and ranks them based on our priority and sends an email to us generating a new newsletter containing only the important news from all the newsletters. The beauty of the application is that it doesn't store the data as of now anywhere. So no storage is needed. All the process is automated from scrapping news, summarizing text, creating email and sending an email.

I'll start by explaining the working of the application.

RPA Packages Used:

```
1) requests --- #Requesting the URL
2) bs4 --- #Web Scrapping
3) validator_collection --- #Validator the conditions
4) git+"https://github.com/codelucas/newspaper.git" --- Extracting newsletter contents
5) goose3 --- #Webwrapper Package
6) jinja2 --- #Creating a newsletter template
7) smtplib --- #Sending email
```

Azure Service:

Azure Web Jobs can be used to schedule this python program to run weekly once.

Final Result Newsetter:(Screenshot attached)



Newsletter of Newsletters



How to run this application?

Upload the **Newsletter_of_Newsletters.ipynb** in google colab or any other jupyter notebook and run all the cells it will send you a mail of the newsletter.

```
#!/usr/bin/env python
                         # sending email
from smtplib import SMTP
from email.mime.text import MIMEText # constructing messages
from jinja2 import Environment
                                   # Jinja2 templating
msg = email.message.Message()
msg['Subject'] = 'Newsletter of Newsletters'
reciptent_list = ["newsofnewsletter@gmail.com"]
#email_content="hi"
msg['From'] = "newsofnewsletter@gmail.com"
msg['To'] = reciptent_list
password="Student#1899!"
msg.add_header('Content-Type', 'text/html')
msg.set_payload((email_content).encode('ascii','ignore'))
s = smtplib.SMTP('smtp.gmail.com: 587')
s.starttls()
# Login Credentials for sending the mail
s.login(msg['From'], password)
s.sendmail(msg['From'], msg["To"], msg.as_string())
```

In last cell of notebook you can find this code, where you just add the people's email in reciptent list and run the program you will the email.

The above pic is the part of the program where you have to add the newsletter source links.

Code explanation:

Cell 1:

First cell in the python code is the necessary packages need to run the program if you run the cell it will install the packages by itself

Scrapping the pages of the newsletters
Cell 3:
Taking the necessary content from the newsletters
Cell 4 to until N-2 Cells : (N- Total No of Cells)
Summarizing the contents read from newsletters and ranking the news from newsletter based on importance
N-2th Cell:
Automatically Creating the newsletter.
Final Cell:
Sending the email.

Cell 2: