Sprint 4

Date	19 November 2022
Team ID	PNT2022TMID13865
Project Name	News Tracker Application

Python program for mailing:

```python
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail
from bodyHTMLRender import getHTMLBody

def sendMailThroughSendGrid(body,reciever):
    message = Mail(
        from_email='khariharan066@gmail.com',
        to_emails=reciever,
        subject='Hee Hoo, News Update!!!',
        html_content=body)
    try:
        sg = SendGridAPIClient('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')
        response = sg.send(message)
        print(response.status_code)
        print(response.body)
        print(response.headers)
    except Exception as e:
        print(e)
```
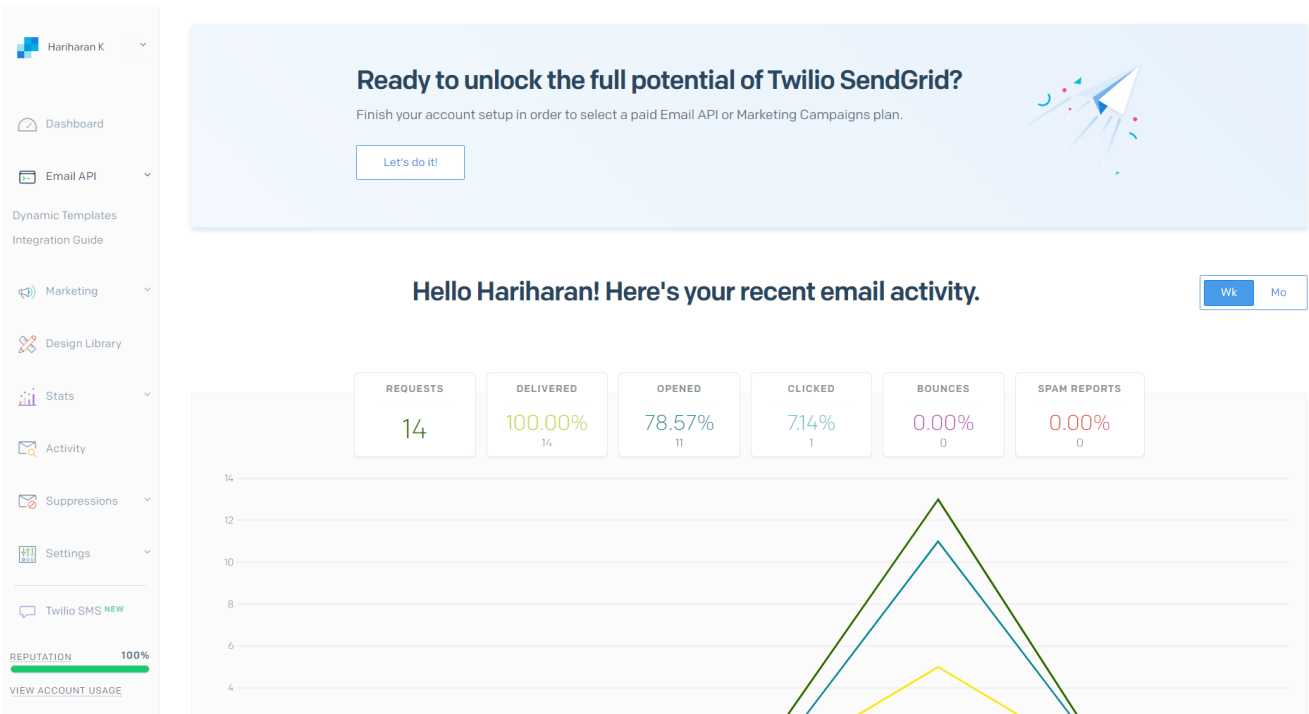
Python program for retrieving news:

```python
app = Flask(__name__)
userID = None
total_Categories = ["business","entertainment","environment","food","health","politics","science","sports","technology","top","world"]

@app.route("/",methods=['GET','POST'])
def home():
    global userID
    if userID!=None:
        getUserCat = "Select CATEGORY,EMAIL_PREF from user_credentials where ID = \'"+userID+"\'"
        stmt = exec_immediate(dbCon,getUserCat)
        dict = fetch_assoc(stmt)
        user_Categories = dict['CATEGORY'].split(",")
        user_email_pref = dict['EMAIL_PREF']
        if(request.method=='POST'):
            sel_Categories = list(request.form.keys())
            sel_Categories.remove("email_pref")
            updateUserCat = "Update user_credentials set CATEGORY =?,EMAIL_PREF=?  where ID = ?"
            prep_stmt = prepare(dbCon, updateUserCat)
            bind_param(prep_stmt, 1, ",".join(sel_Categories))
            bind_param(prep_stmt, 2, request.form.get('email_pref'))
            bind_param(prep_stmt, 3, userID)
            execute(prep_stmt)
            return redirect(url_for('home'))
        return render_template("index.html",total = total_Categories,user= user_Categories,email_pref=user_email_pref,userID = userID)
    else:
        return redirect(url_for('login'))
```

Sendgrid API:

Rapid API