Implementing the Web Application

Integrating sendGrid service

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Project Name: PLASMA DONOR APPLICATION

Test with a driver code

```python
import sendgrid
import os
from sendgrid.helpers.mail import Mail, Email, To, Content


SENDGRID_API_KEY = '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'
sg = sendgrid.SendGridAPIClient(api_key=SENDGRID_API_KEY)
from_email = Email("aseera1105@gmail.com")  # Change to your verified sender
to_email = To("akkuakshara00@gmail.com")  # Change to your recipient
subject = "Sending with SendGrid is Fun"
content = Content("text/plain", "and easy to do anywhere, even with Python")
mail = Mail(from_email, to_email, subject, content)

# Get a JSON-ready representation of the Mail object
mail_json = mail.get()

# Send an HTTP POST request to /mail/send
response = sg.client.mail.send.post(request_body=mail_json)
print(response.status_code)
print(response.headers)
```

PROBLEMS 4   OUTPUT   DEBUG CONSOLE   TERMINAL   JUPYTER

```
PS D:\Trail1\IBM-Project-3320-1658548959-main\Final Deliverables> & C:/Users/Dell/AppData/Local/Microsoft/WindowsApps/python3.10.exe "
Final Deliverables/key.py"
202
Server: nginx
Date: Wed, 23 Nov 2022 19:22:36 GMT
Content-Length: 0
Connection: close
X-Message-Id: nhFMLTTdRty7aW4cRFd1Iw
Access-Control-Allow-Origin: https://sendgrid.api-docs.io
Access-Control-Allow-Methods: POST
Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
Access-Control-Max-Age: 600
X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
Strict-Transport-Security: max-age=600; includeSubDomains
```

Actual Implementation

```python
mail.py > send_conformation_mail
1    from sendgrid import SendGridAPIClient
2    import sendgrid
3    from sendgrid.helpers.mail import Mail
4    from sendgrid.helpers.mail import Mail, Email, To, Content
5
6    def send_conformation_mail():
7        message = Mail(
8            from_email=Email("aseera1105@gmail.com"),
9            to_emails=To(allmails),
10           subject='Confirmation Email From Plasma Donor Application.',
11           html_content='''
12
13           <h1>You are a Lifesaver, {{user}}!</h1><br>
14           <h3> Thank you so much for registering with us </h3><br>
15           <p> You are now registered user. Now, you can visit our website and login to your profile using the credentials you have registered with.</p
16           <p> You have made a very important step towards making earth a better place! Thank you.</p>
17           '''
18       )
19
20       # Send an HTTP POST request to /mail/send
21       response = sg.client.mail.send.post(request_body=mail_json)
22       print(response.status_code)
23       print(response.headers)
24
25       try:
26           #sg = SendGridAPIClient(os.getenv("SENDGRIDAPIKEY"))
27           SENDGRID_API_KEY = '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'
28           sg = sendgrid.SendGridAPIClient(api_key=SENDGRID_API_KEY)
29           sg.send(message=message)
30       except Exception as e:
31           print(e)
32
33   if __name__=='__main__':
34       send_conformation_mail()
35
36
37
```