

Implementing the Web Application

Create IBM DB2 And Connect With Python

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Project Name: PLASMA DONOR APPLICATION

Test with a driver code

```
key.py > ...
1  import sendgrid
2  import os
3  from sendgrid.helpers.mail import Mail, Email, To, Content
4
5
6  SENDGRID_API_KEY = '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'
7  sg = sendgrid.SendGridAPIClient(api_key=SENDGRID_API_KEY)
8  from_email = Email("aseera1105@gmail.com") # Change to your verified sender
9  to_email = To("akkuakshara00@gmail.com") # Change to your recipient
10 subject = "Sending with SendGrid is Fun"
11 content = Content("text/plain", "and easy to do anywhere, even with Python")
12 mail = Mail(from_email, to_email, subject, content)
13
14 # Get a JSON-ready representation of the Mail object
15 mail_json = mail.get()
16
17 # Send an HTTP POST request to /mail/send
18 response = sg.client.mail.send.post(request_body=mail_json)
19 print(response.status_code)
20 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

```
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
```