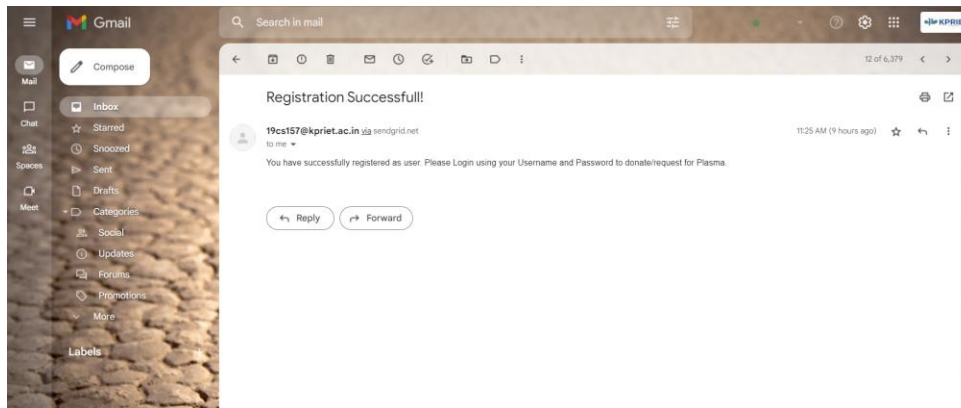


# PROJECT DEVELOPMENT PHASE

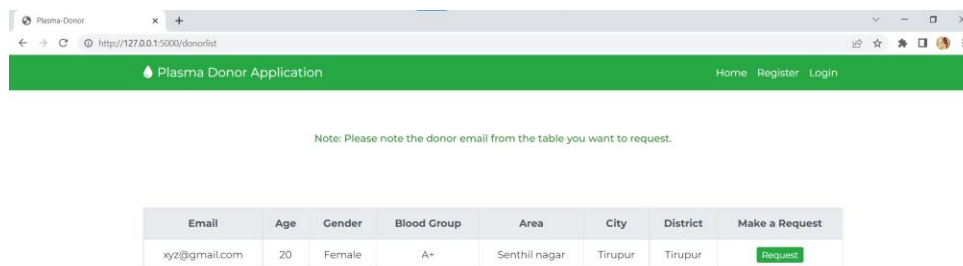
## SPRINT – 3

Date	11th November 2022
Team Id	PNT2022TMID14112
Project Name	Plasma Donor Application

## Integration with SendGrid



## View Request



# Coding

```
1 from flask import Flask, render_template, request, url_for, flash, redirect, session
2 import ibm_db
3 import sendgrid
4 import os
5 import re
6 from sendgrid.helpers.mail import *
7
8
9 app = Flask(__name__)
10 app.secret_key = "secretkey"
11
12 conn = ibm_db.connect('DATABASE=bludb;HOSTNAME=1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqrk39.
13
14 @app.route("/")
15 def index():
16     return render_template('home.html')
17
18 @app.route("/home")
19 def home_page():
20     return render_template('home.html')
21 #-----
22
23 @app.route("/login", methods = ['POST', 'GET'])
24 def login():
25     global userid
26     msg = ''
27     if request.method == 'POST':
28         username = request.form['username']
29         password = request.form['password']
30         sql = "SELECT * FROM LOGIN WHERE username =? AND password=?"
```

```
91     return render_template('signin.html', msg = msg)
92 #-----
93 # sendgrid integration
94 def mailtest_registration(to_email):
95     sg = sendgrid.SendgridAPIClient(api_key= 'api key' )
96     from_email = Mail(["19cs155@kpriet.ac.in"])
97     subject = "Registration Successful!"
98     content = Content("text/plain", "You have successfully registered as user. Please Login using you
99 mail = Mail(from_email, to_email, subject, content)
100 response = sg.client.mail.send.post(request_body=mail.get())
101 print(response.status_code)
102 print(response.body)
103 print(response.headers)
104
105 #for donor
106 def mailtest_requesttodonor(to_email):
107     sg = sendgrid.SendgridAPIClient(api_key= 'api key' )
108     from_email = Mail(["19cs155@kpriet.ac.in"])
109     subject = "Thankyou for Registering as Donor!"
110     content = Content("text/plain", "Every donor is an asset to the nation who saves people's lives,
111 mail = Mail(from_email, to_email, subject, content)
112 response = sg.client.mail.send.post(request_body=mail.get())
113 print(response.status_code)
114 print(response.body)
115 print(response.headers)
116
117 #for request sending to donor
118
119 def mailtest_requesttodonor(to_email):
120     sg = sendgrid.SendgridAPIClient(api_key= 'api key' )
121     from_email = Mail(["19cs155@kpriet.ac.in"])
122     subject = "Request Submitted!"
123     content = Content("text/plain", "Your request has been successfully submitted. Please be patient,
124 mail = Mail(from_email, to_email, subject, content)
125 response = sg.client.mail.send.post(request_body=mail.get())
126 print(response.status_code)
127 print(response.body)
128 print(response.headers)
129 #-----
130 @app.route("/register")
131 def register():
132     return render_template('register.html')
133
134 @app.route("/addonor", methods = ['POST', 'GET'])
135 def addonor():
136
137     if request.method == 'POST':
138         name = request.form['name']
139         mobile = request.form['mobile']
140         email = request.form['email']
141         age = request.form['age']
142         gender = request.form['gender']
143         blood = request.form['blood']
144         area = request.form['area']
145         city = request.form['city']
146         district = request.form['district']
```

```
File Edit Selection View Go Run Terminal Help request.html - Sprint 3 - Visual Studio Code
EXPLORER
SPRINT-3
static
templates
admin_login.html
base.html
donor.html
forgetpassword.html
home.html
login.html
Register.html
request.html
signin.html
success.html
user_profile.html
~Sprint-3.pdf
app.py
db.sql
DigiCertGlobalRootCA.crt
Sprint-3.pdf
OUTLINE
TIMELINE
templates > request.html > ...
1 {% extends 'base.html'%}
2
3 <!--title tag-->
4 {% block title %}
5 <title>Plasma-Request</title>
6 {% endblock %}
7
8 <!--Login Content-->
9 {% block content %}
10 <!--Registration form-->
11
12
13 <div class="container mt-5" id="request-form">
14 <div class="row justify-content-center">
15 <div class="col-sm-12">
16 <div class="card">
17 <div class="msg">{{ msg }}</div>
18 <div class="card-body">
19 <h4 style="text-align: center;">Request for Plasma</h4>
20 <!--Form content-->
21 <form action="/request_page" method="post">
22
23 <div class="form-row">
24 <div class="col-sm-6">
25 <div class="form-group mr-4">
26 <label form="drmail">Enter Donor Mail</label>
27 <input type="email" class="form-control" name="drmail" id="drmail" re
28 placeholder="Enter Donor mail from the table">
29 </div>
30
```

```
File Edit Selection View Go Run Terminal Help donor.html - Sprint 3 - Visual Studio Code
EXPLORER
SPRINT-3
static
templates
admin_login.html
base.html
donor.html
forgetpassword.html
home.html
login.html
Register.html
request.html
signin.html
success.html
user_profile.html
~Sprint-3.pdf
app.py
db.sql
DigiCertGlobalRootCA.crt
Sprint-3.pdf
OUTLINE
TIMELINE
templates > donor.html > ...
12 <div class="row justify-content-center">
13 <div class="col-sm-12">
14 <div class="msg">{{ msg }}</div>
15 <div class="">
16 <div class="">
17 <h6 style="text-align: center; margin-top: 50px; color: #228B22;">Note: Please not
18 <table class="table table-hover table-bordered" style="margin:100px 0px; text-align: center;">
19 <thead class="thead-light">
20 <tr>
21
22 <th scope="col">Email</th>
23 <th scope="col">Age</th>
24 <th scope="col">Gender</th>
25 <th scope="col">Blood Group</th>
26 <th scope="col">Area</th>
27 <th scope="col">City</th>
28 <th scope="col">District</th>
29 <th scope="col">Make a Request</th>
30 </tr>
31 </thead>
32 <tbody>
33 <tr>
34 <th colspan="8">{% for row in donor2 %}
35 <td>{{ row["EMAIL"] }}</td>
36 <td>{{ row["AGE"] }}</td>
37 <td>{{ row["GENDER"] }}</td>
38 <td>{{ row["BLOOD"] }}</td>
39 <td>{{ row["AREA"] }}</td>
40 <td>{{ row["CITY"] }}</td>
```

