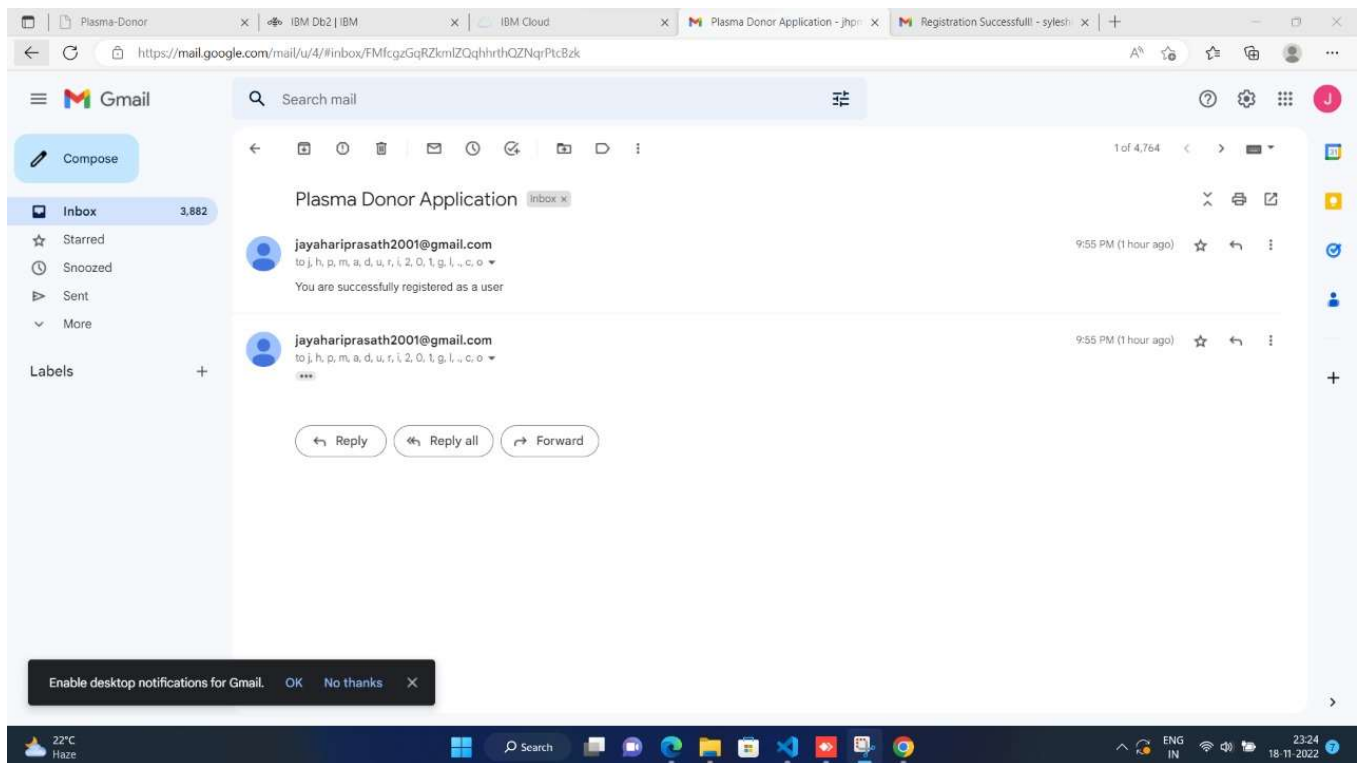


PROJECT DEVELOPMENT PHASE

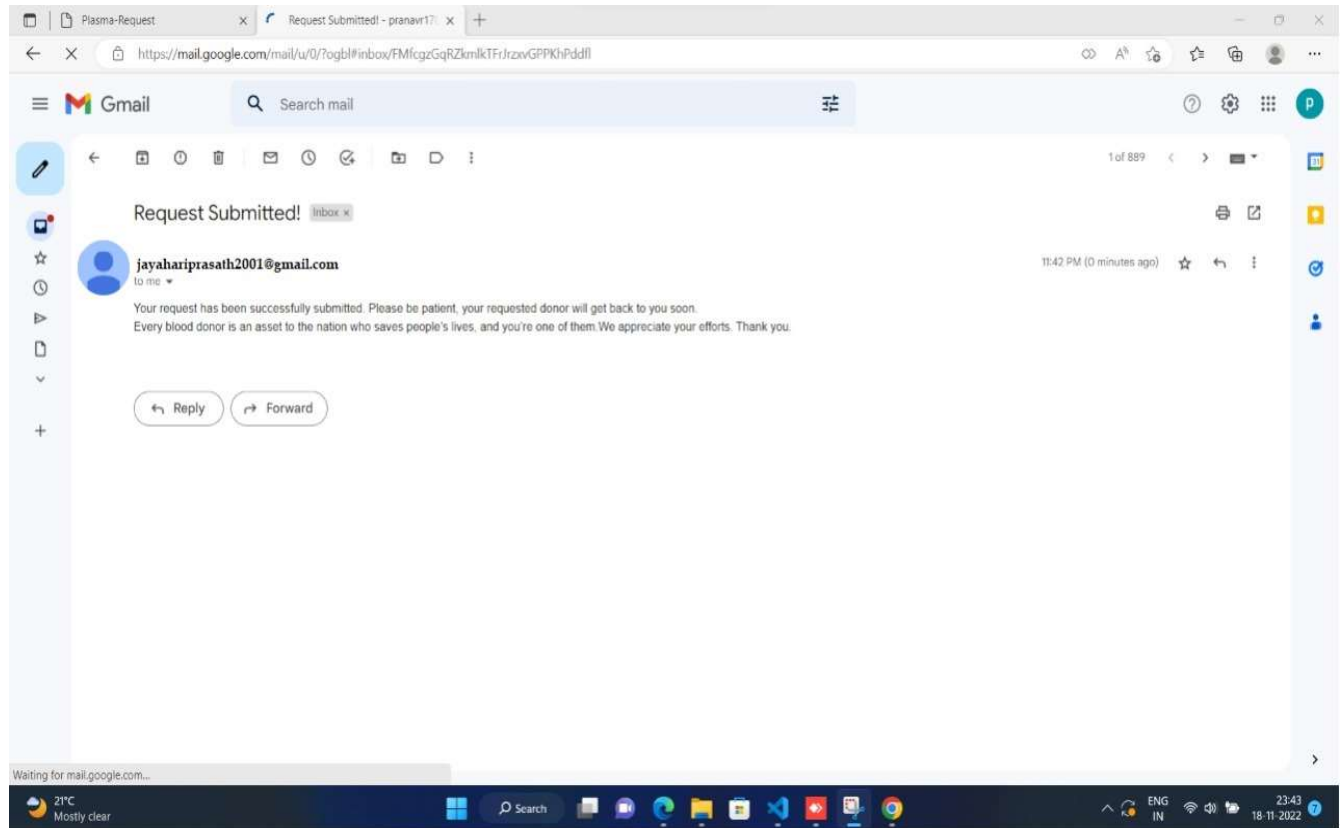
SPRINT-3

Date	11 th November, 2022
Team ID	PNT2022TMID51943
Project Name	Plasma Donor Application

1. CONFIRMATION MAIL TO REGISTERED DONOR



2. REQUEST MAIL FROM RECIPIENT TO DONOR



3. VIEW REQUEST

Email	Age	Gender	Blood Group	Area	City	District	Make a Request
jayahariprasath2001@gmail.com	22	Male	A+	jhbdyhudgw	Madurai	hsgdutw7qer	Request
jayahariprasath2001@gmail.com	20	Male	AB+	abc colony	Madurai	Madurai	Request

4. CONFIRMATION MAIL TO THE USER

Registration Successfull! Inbox

N nandhini02lak@gmail... 1:15 am
to me

You have successfully registered as user. Please Login using your Username and Password to donate/request for Plasma.

[Reply](#) [Reply all](#) [Forward](#)

99+

CODING AND TESTING

The screenshot shows the Visual Studio Code interface with the following details:

- Explorer Sidebar:** Displays the project structure. The 'templates' folder is expanded, showing 'admin_login.html' as the active file. Other files include 'base.html', 'donor.html', 'forgetpassword.html', 'home.html', 'login.html', 'Register.html', 'request.html', 'signin.html', 'success.html', 'user_profile.html', 'app.py', 'DigiCertGlobalRootCA.crt', and 'placeholder.txt'.
- Main Editor:** Shows the content of 'admin_login.html'. The code is a Jinja2 template that extends 'base.html'. It includes a title tag, a login content block, and a registration form block. The registration form contains input fields for email and password.
- Code Content:**

```

1 {% extends 'base.html' %}
2
3 <!-- title tag -->
4 {% block title %}
5 <title>Admin-Login</title>
6 {% endblock %}
7
8 <!-- Login Content -->
9 {% block content %}
10 <!-- Registration form -->
11 <div class="container">
12     <div class="text-center mt-5"><h2>Login as Admin</h2></div>
13
14 </div>
15
16 <div class="container mt-5">
17     <div class="row justify-content-center">
18         <div class="col-sm-6">
19             <div class="card">
20                 <div class="card-body">
21                     <!-- Form content -->
22                     <form action="/" method="post">
23
24                         <div class="form-group">
25                             <label for="email">Email</label>
26                             <input type="email" class="form-control" name="" id="email" required place
27                         </div>
28                         <div class="form-group">
29                             <label for="password">Password</label>
30                             <input type="password" class="form-control" name="" id="password" placehol
31                         </div>
32
33                     </div>
34                 </div>
35             </div>
36         </div>
37     </div>
38 </div>

```
- Status Bar:** Shows the current line and column (Ln 1, Col 1), the encoding (UTF-8), and the file type (HTML).

The image shows two side-by-side Visual Studio Code windows. Both windows have the same menu bar (File, Edit, Selection, View, Go, Run, Terminal, Help) and a toolbar with icons for Explorer, Search, Source Control, Run and Debug, and Extensions. The left window's Explorer sidebar shows a 'project' folder containing a 'templates' subfolder, which in turn contains a 'base.html' file. The right window's Explorer sidebar shows a similar structure but with an additional 'static' folder. Both windows display the content of the 'base.html' file. The code is an HTML template for a web application, featuring a navigation bar at the top. The left window shows the initial state of the file, while the right window shows the file after adding navigation links and Bootstrap JavaScript. The code includes comments in Chinese, indicating it's a tutorial or a project for a Chinese audience. The status bar at the bottom of both windows shows 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'HTML', and 'Go Live'.

```

project > templates > base.html > ...
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <!-- Required meta tags -->
5     <meta charset="utf-8">
6     <meta http-equiv="X-UA-Compatible" content="IE=edge">
7     <meta name="viewport" content="width=device-width, initial-scale=1">
8     <!-- font awesome -->
9     <script src="https://kit.fontawesome.com/15af226b72.js"></script>
10
11     <!-- Bootstrap CSS -->
12     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css">
13
14     <!-- Google Font -->
15     <style>
16         @import url('https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=block');
17     </style>
18     <!-- contains style for all pages -->
19     <link rel="stylesheet" href="/static/style.css">
20     <script src="https://kit.fontawesome.com/000fb23390.js"></script>
21     {% block link %}
22     {% endblock %}
23     {% block title %}
24     {% endblock %}
25 </head>
26 <body>
27
28     <!-- Header -->
29     <header>
30         <nav class="navbar navbar-expand-lg navbar-dark bg-primary">
31             <div class="container">
32                 <a href="{{ url_for('index') }}" class="navbar-brand"><!--
33                 Plasma Donor Application</a>
34
base.html x
project > templates > base.html > ...
41 <div class="collapse navbar-collapse">
42     <ul class="navbar-nav">
43         <li class="active">
44             <a href="{{ url_for('home_page') }}" class="nav-link">Home</a>
45
46
47         <li>
48             <a href="{{ url_for('signin') }}" class="nav-link">Register</a>
49
50
51         <li>
52             <a href="{{ url_for('login') }}" class="nav-link">Login</a>
53
54
55
56
57
58
59
60
61 </div>
62
63
64
65 <!-- Footer -->
66 <div>
67
68
69
70 </div>
71 <script -->
72     <!-- then Popper.js, then Bootstrap JS -->
73     <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+9654zql8Cz4nNkrTjp820Lq1" crossorigin="anonymous"></script>
74     <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-Uf2tK8S1W5RgfI7JG36Q36TXuX6qYV9Hd+REwXb3fJf0pX62qKq" crossorigin="anonymous"></script>
75     <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js" integrity="sha384-C6CoKt7984pS7OqIv6y6u3Ea613400pK8p8qQYvZQp" crossorigin="anonymous"></script>
76
base.html x

```

donor.html - Sp3 - Visual Studio Code

```
1  {% extends 'base.html' %}
2
3  <!--title tag-->
4  {% block title %}
5  <title>Plasma-Donor</title>
6  {% endblock %}
7
8  <!--Donor Content-->
9  {% block content %}
10 <!--Donor table-->
11 <div class="container mt-3">
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">Plasma Donor Table</h6>
18           <table class="table table-hover table-bordered">
19             <thead class="thead-light">
20               <tr>
21                 <th>Email</th>
22                 <th>Age</th>
23                 <th>Gender</th>
24                 <th>Blood Group</th>
25                 <th>Area</th>
26                 <th>City</th>
27                 <th>District</th>
28                 <th>Make a Request</th>
29               </tr>
30             </thead>
31             <tbody>
32               <tr>
33                 <td>{{ row["EMAIL"] }}</td>
34                 <td>{{ row["AGE"] }}</td>
35                 <td>{{ row["GENDER"] }}</td>
36                 <td>{{ row["BLOOD"] }}</td>
37                 <td>{{ row["AREA"] }}</td>
38                 <td>{{ row["CITY"] }}</td>
39                 <td>{{ row["DISTRICT"] }}</td>
40                 <td>
41                   <a href="{{url_for('request_page')}}">Request</a>
42                 </td>
43               </tr>
44             </tbody>
45           </table>
46         </div>
47       </div>
48     </div>
49   </div>
50 </div>
51 </div>
52 </div>
53 </div>
54 </div>
55 {% endblock %}
```

forgetpassword.html - Sp3 - Visual Studio Code

```
1  {% extends 'base.html' %}
2
3  <!--title tag-->
4  {% block title %}
5  <title>Plasma-ResetPassword</title>
6  {% endblock %}
7
8  {% block link %}
9  {% endblock %}
10
11 {% block content %}
12 <!--Registration form-->
13 <div class="container">
14   <div class="text-center mt-5"><h3></h3></div>
15 </div>
16
17 <div class="container mt-5">
18   <div class="row justify-content-center">
19     <div class="col-sm-6">
20       <div class="card">
21         <div class="card-body">
22           <!--Form content-->
23           <form action="/" method="POST">
24             <div class="msg">{{ msg }}</div>
25             <div class="form-group">
26               <label for="femail">Email</label>
27               <input type="email" class="form-control" value="">
28             </div>
29             <div>
30               <a href="{{url_for('login')}}">Login</a>
31             </div>
32             <div class="form-group text-center">
33               <input type="submit" value="Reset Password">
34             </div>
35             <div style="text-align: center;">
36               <p>Don't have an account <a href="{{url_for('register')}}">Register</a></p>
37             </div>
38           </form>
39         </div>
40       </div>
41     </div>
42   </div>
43 </div>
44
45 <div class="form-group">
46   <label for="femail">Email</label>
47   <input type="email" class="form-control" value="">
48 </div>
49
50 <div>
51   <a href="{{url_for('login')}}">Login</a>
52 </div>
53
54 <div class="form-group text-center">
55   <input type="submit" value="Reset Password">
56 </div>
57
58 <div style="text-align: center;">
59   <p>Don't have an account <a href="{{url_for('register')}}">Register</a></p>
60 </div>
```


The image displays four panels of a VS Code editor, each showing a different CSS file named 'home.html'. The top panel shows a CSS file with styles for a plasma home page. The second panel shows a CSS file with styles for a plasma home page. The third panel shows a CSS file with styles for a plasma home page. The fourth panel shows a CSS file with styles for a plasma home page.

Panel 1 (Top): CSS file 'home.html' showing styles for a plasma home page. The code includes a comment indicating it extends 'base.html'. It defines styles for the title, body background, heading, profile area, card, and image.

```

1  {% extends 'base.html' %}
2
3  <!-- title tag -->
4  {% block title %}
5  <title>Plasma-Home</title>
6  </block title %}
7
8  body{
9      background: #fff;
10
11
12  .heading{
13      padding-top: 30px;
14      text-align: center;
15      font-weight: 500;
16  }
17
18  .profile-area{
19      padding: 30px 0;
20  }
21
22  .card{
23      box-shadow: 0 0 30px;
24      overflow: hidden;
25      border-radius: 15px;
26      margin-top: 30px;
27  }
28
29  .img1 img{
30      height: 100px;
31      margin-left: auto;
32      margin-right: auto;
33      /* border-top: 1px solid;
34      border-top-left-r
35      width: 100%;
36  }

```

Panel 2: CSS file 'home.html' showing styles for a plasma home page. The code includes styles for the image, card, main text, and space.

```

37
38  .img2 img{
39      margin-left: auto;
40
41      text-align: center;
42      border-radius: 50%;
43      width: 100px;
44  }
45
46  .card:hover .img2 img{
47      border-color: bg-p
48      transition: .7s
49  }
50
51  .main-text{
52      padding: 30px 0;
53      text-align: center
54  }
55
56  .main-text h2{
57      top: 22px;
58      text-transform: up
59      font-weight: 900;
60      font-size: 20px;
61      margin: 0 10px;
62  }
63
64  .main-text p{
65      font-size: 16px;
66      padding: 0 35px;
67  }
68
69  .space{
70      margin-bottom: 20px;
71  }
72
73  </style>
74  {% endblock %}
75
76  {% block link %}

```

Panel 3: CSS file 'home.html' showing styles for a plasma home page. The code includes styles for the landing, landi, and profile sections.

```

77  </div>
78  <div class="landi">
79      <h1>Start mak
80      <h3>Donate Pl
81      <div class="b
82          <a href="
83      </div>
84  </div>
85
86  </div><br><br>
87
88  <!-- About -->
89  <br>
90  <h1 style="text-align
91  <div class = "profile
92      <div class = "con
93      <div class="row
94          <div class =
95              <div class
96              <div cl
97

```

Panel 4: CSS file 'home.html' showing styles for a plasma home page. The code includes styles for the landing, landi, and profile sections.

```

98
99  <div clas
100  <h2 cla
101  <p clas
102  of wh
103  </div>
104  </div>
105  </div>
106
107  <div class =
108  <div class
109  <div clas
110  <div clas
111  <h2 cla
112  <p clas
113  </div>
114  </div>
115  </div>
116  </div>
117
118  <div class =
119  <div class
120  <div class=
121  <div clas
122  <h2 cla
123  <p clas
124  </div>
125  </div>
126  </div>
127  </div>
128
129  <div class =
130  <div class
131  <div clas
132  </div>

```



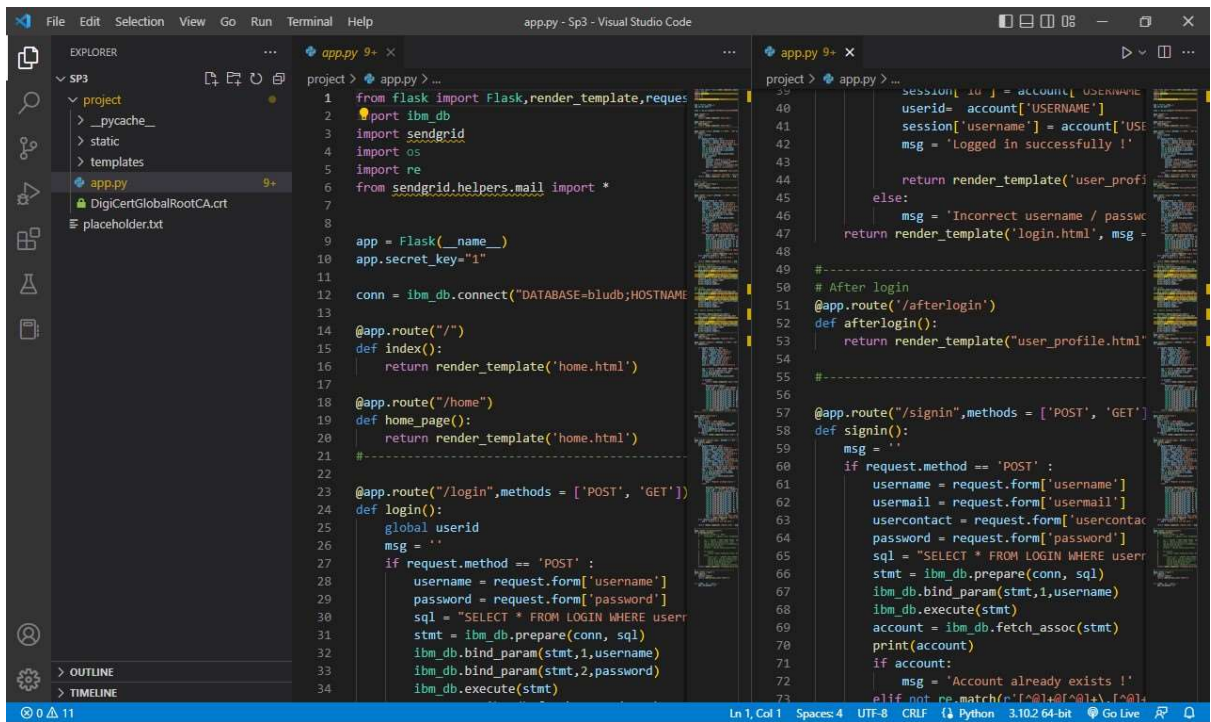
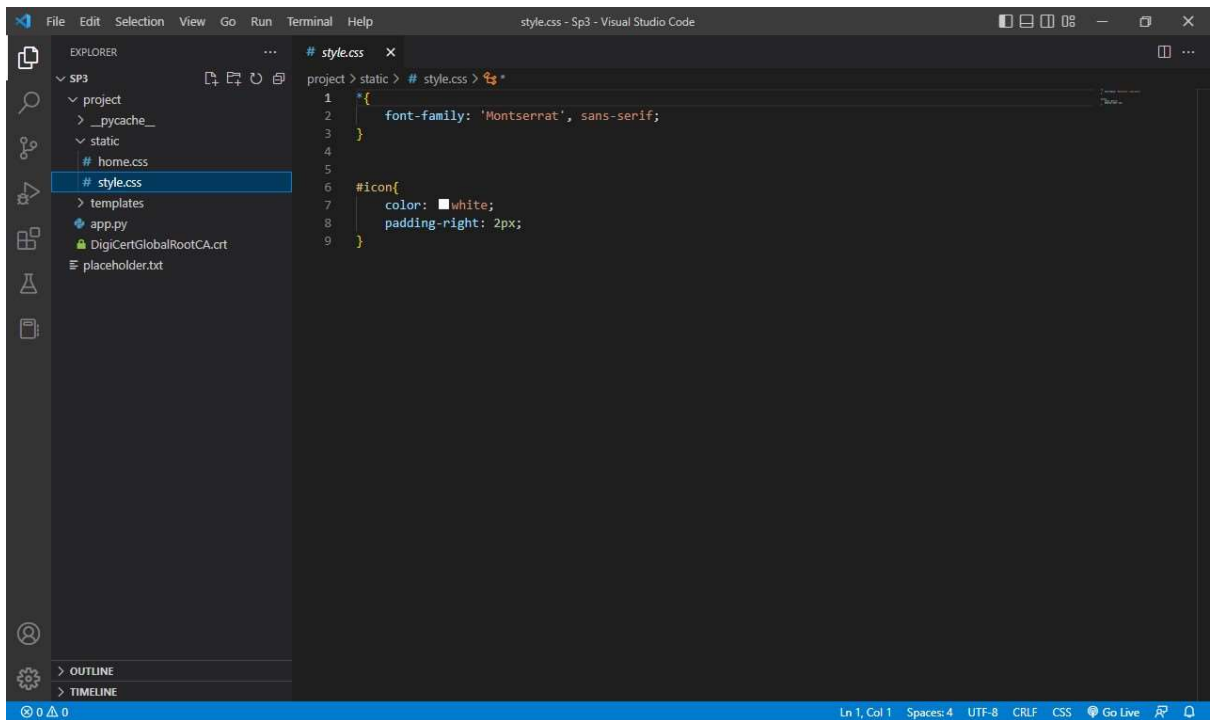
```
1 {% extends 'base.html'%}
2
3 <!--title tag-->
4 {% block title %}
5 <title>Plasma-Signin</title>
6 {% endblock %}
7
8 <!--Login Content-->
9 {% block content %}
10 <!--Registration form-->
11
12
13 <div class="container mt-5" id="request-form">
14   <div class="row justify-content-center">
15     <div class="col-sm-6">
16       <div class="card">
17         <div class="card-body">
18           <h4 style="text-align: center;">
19             <!--Form content-->
20           <form action="/signin" method="post">
21             <div class="form-group">
22               <label for="your-name">Name</label>
23               <input type="text" class="form-control" placeholder="Enter your name">
24             </div>
25             <div class="form-group">
26               <label for="password">Password</label>
27               <input type="password" class="form-control" placeholder="Enter your password">
28             </div>
29             <div class="form-group">
30               <label for="email">Email</label>
31               <input type="email" class="form-control" placeholder="Enter your email">
32             </div>
33             <div class="form-group">
34               <label for="phone">Phone</label>
35               <input type="tel" class="form-control" placeholder="Enter your phone number">
36             </div>
37             <div class="form-group">
38               <input type="reset" value="Reset" class="btn btn-secondary">
39             </div>
40             <div class="form-group">
41               <input type="submit" value="Signin" class="btn btn-primary">
42             </div>
43           </form>
44         </div>
45       </div>
46     </div>
47   </div>
48 </div>
49
50 {% endblock %}
```

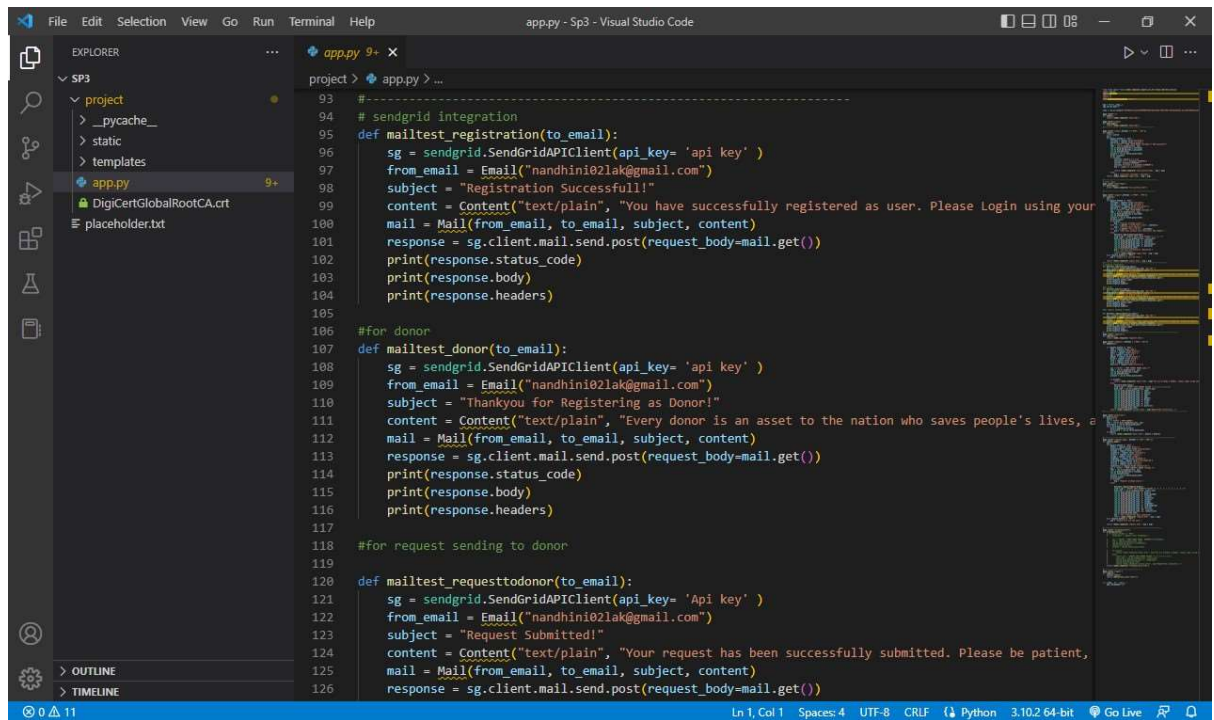
```
1 {% extends 'base.html'%}
2
3 <!--title tag-->
4 {% block title %}
5 <title>Plasma-Success</title>
6 {% endblock %}
7
8 {% block link %}
9 {% endblock %}
10
11 <!--User Content-->
12 {% block content %}
13
14
15
16 <div class="container-fluid">
17   <div class="text-center">
18     <div class="card">
19       <div class="card-body">
20         <h4 style="text-align: center;">
21           <!--Form content-->
22         <div class="form-group">
23           <input type="text" class="form-control" placeholder="Enter your name">
24         </div>
25         <div class="form-group">
26           <input type="password" class="form-control" placeholder="Enter your password">
27         </div>
28         <div class="form-group">
29           <input type="email" class="form-control" placeholder="Enter your email">
30         </div>
31         <div class="form-group">
32           <input type="tel" class="form-control" placeholder="Enter your phone number">
33         </div>
34         <div class="form-group">
35           <input type="reset" value="Reset" class="btn btn-secondary">
36         </div>
37         <div class="form-group">
38           <input type="submit" value="Success" class="btn btn-primary">
39         </div>
40       </div>
41     </div>
42   </div>
43 </div>
44
45 {% endblock %}
```



```
1  {% extends 'base.html' %}
2
3  <!--title tag-->
4  {% block title %}
5  <title>Plasma-Profile</title>
6  </title>
7
8  .profile-area{
9      padding:70px 0;
10     border: 2px solid #232, 226, 226, 0.4;
11     margin-right: 190px;
12     margin-left: 190px;
13     margin-top: 50px;
14 }
15
16 .card{
17     box-shadow: 0 0 30px #538f;
18     overflow:hidden;
19     border-radius:15px;
20     margin-top:30px;
21     background-image: linear-gradient(to top right, #538f, #538f);
22     height: 200px;
23
24 }
25
26 .card:hover{
27     border-color:#8804f9;
28     transform: rotate(1deg);
29     transition:.7s
30 }
31
32 .main-text, .card-body{
33     text-align: center;
34     padding-top: 60px;
35 }
36
37 .btn{
38     padding: 10px 10px;
39     margin-bottom: 20px;
40 }
```

```
1  @media only screen and (max-width: 500px) {
2
3      /* For mobile phones: */
4      .landing, .landing-text h1, .landing-text h3, .landing-text .btn, .landing-text .btn a{
5          width: 100%;
6          height: auto;
7      }
8
9      .landing{
10         margin-top: 100px;
11         margin-left: 50px;
12         margin-right: 50px;
13     }
14
15     .landing-text h1{
16         font-size: 65px;
17     }
18
19     .landing-text h3{
20         margin: 6px;
21         font-size: 15px;
22         line-height: 1.8;
23         color: #777777;
24         margin-right: 20px;
25     }
26
27     .landing-text .btn{
28         width: 200px;
29         margin-top: 30px;
30         padding: 14px 20px 12px 20px;
31         background-color: #007bff;
32         border-radius: 45px;
33         text-align: center;
34     }
35 }
```

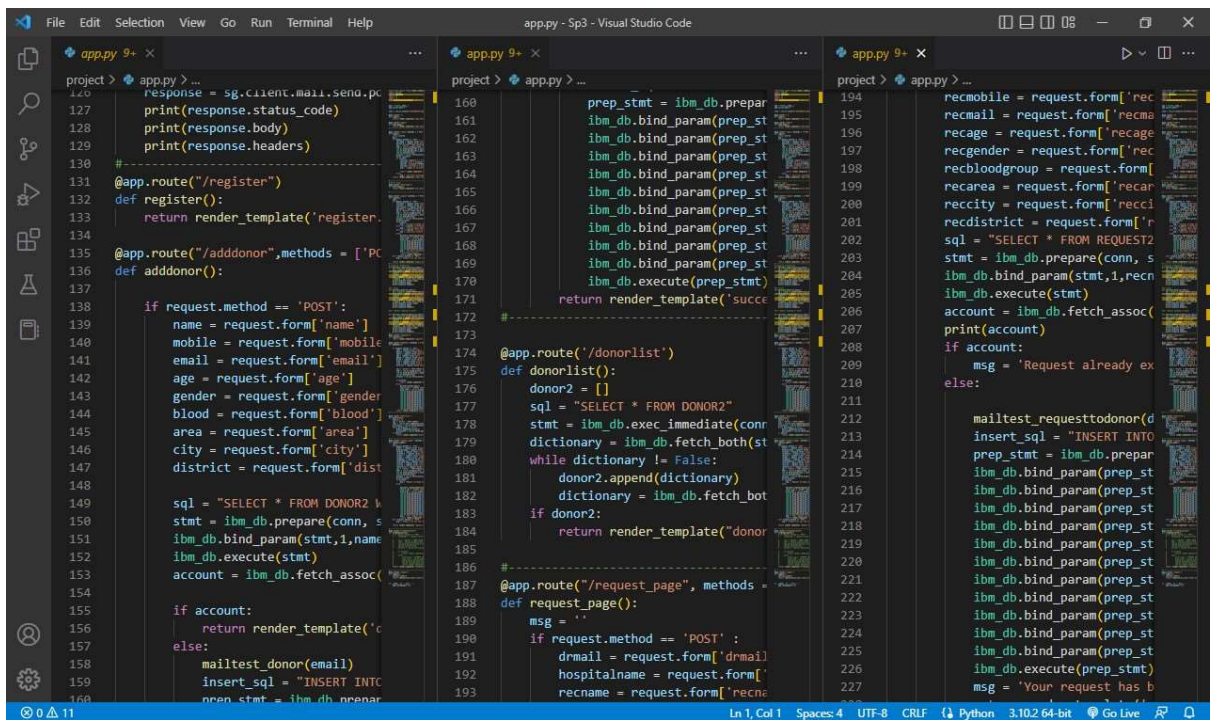




```
File Edit Selection View Go Run Terminal Help
app.py - Sp3 - Visual Studio Code

EXPLORER
project
  __pycache__
  static
  templates
  app.py
  DigiCertGlobalRootCA.crt
  placeholder.txt

project > app.py > ...
93 #-----
94 # sendgrid integration
95 def mailtest_registration(to_email):
96     sg = sendgrid.SendGridAPIClient(api_key= 'api key' )
97     from_email = Email("nandhini02lak@gmail.com")
98     subject = "Registration Successful!"
99     content = Content("text/plain", "You have successfully registered as user. Please Login using your")
100     mail = Mail(from_email, to_email, subject, content)
101     response = sg.client.mail.send.post(request_body=mail.get())
102     print(response.status_code)
103     print(response.body)
104     print(response.headers)
105
106 #for donor
107 def mailtest_donor(to_email):
108     sg = sendgrid.SendGridAPIClient(api_key= 'api key' )
109     from_email = Email("nandhini02lak@gmail.com")
110     subject = "Thankyou for Registering as Donor!"
111     content = Content("text/plain", "Every donor is an asset to the nation who saves people's lives, a")
112     mail = Mail(from_email, to_email, subject, content)
113     response = sg.client.mail.send.post(request_body=mail.get())
114     print(response.status_code)
115     print(response.body)
116     print(response.headers)
117
118 #for request sending to donor
119
120 def mailtest_requesttodonor(to_email):
121     sg = sendgrid.SendGridAPIClient(api_key= 'Api key' )
122     from_email = Email("nandhini02lak@gmail.com")
123     subject = "Request Submitted!"
124     content = Content("text/plain", "Your request has been successfully submitted. Please be patient,")
125     mail = Mail(from_email, to_email, subject, content)
126     response = sg.client.mail.send.post(request_body=mail.get())
```



```
File Edit Selection View Go Run Terminal Help
app.py - Sp3 - Visual Studio Code

app.py 9+ x
project > app.py > ...
120 response = sg.client.mail.send.post(request_body=mail.get())
121 print(response.status_code)
122 print(response.body)
123 print(response.headers)
124
125 #-----
126 @app.route("/register")
127 def register():
128     return render_template('register.html')
129
130 @app.route("/adddonor", methods = ['POST'])
131 def adddonor():
132     if request.method == 'POST':
133         name = request.form['name']
134         mobile = request.form['mobile']
135         email = request.form['email']
136         age = request.form['age']
137         gender = request.form['gender']
138         blood = request.form['blood']
139         area = request.form['area']
140         city = request.form['city']
141         district = request.form['district']
142
143         sql = "SELECT * FROM DONOR2"
144         stmt = ibm_db.prepare(conn, sql)
145         ibm_db.bind_param(stmt, 1, name)
146         ibm_db.execute(stmt)
147         account = ibm_db.fetch_assoc(stmt)
148
149         if account:
150             return render_template('adddonor.html')
151         else:
152             mailtest_donor(email)
153             insert_sql = "INSERT INTO DONOR2 (name, mobile, email, age, gender, blood, area, city, district) VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s)"
154             nparam_stmt = ibm_db.prepare(conn, insert_sql)
155             ibm_db.bind_param(nparam_stmt, 1, name)
156             ibm_db.bind_param(nparam_stmt, 2, mobile)
157             ibm_db.bind_param(nparam_stmt, 3, email)
158             ibm_db.bind_param(nparam_stmt, 4, age)
159             ibm_db.bind_param(nparam_stmt, 5, gender)
160             ibm_db.bind_param(nparam_stmt, 6, blood)
161             ibm_db.bind_param(nparam_stmt, 7, area)
162             ibm_db.bind_param(nparam_stmt, 8, city)
163             ibm_db.bind_param(nparam_stmt, 9, district)
164             ibm_db.execute(nparam_stmt)
165             return render_template('success.html')
166
167 #-----
168 @app.route("/donorlist")
169 def donorlist():
170     donor2 = []
171     sql = "SELECT * FROM DONOR2"
172     stmt = ibm_db.exec_immediate(conn, sql)
173     dictionary = ibm_db.fetch_both(stmt)
174     while dictionary != False:
175         donor2.append(dictionary)
176         dictionary = ibm_db.fetch_both(stmt)
177     if donor2:
178         return render_template("donorlist.html")
179
180 #-----
181 @app.route("/request_page", methods = ['POST'])
182 def request_page():
183     msg = ""
184     if request.method == 'POST':
185         dmail = request.form['dmail']
186         hospitalname = request.form['hospitalname']
187         recname = request.form['recname']
188         recmobile = request.form['recmobile']
189         recmail = request.form['recmail']
190         recage = request.form['recage']
191         recgender = request.form['recgender']
192         recbloodgroup = request.form['recbloodgroup']
193         recarea = request.form['recarea']
194         reccity = request.form['reccity']
195         recdistrict = request.form['recdistrict']
196         sql = "SELECT * FROM REQUEST2"
197         stmt = ibm_db.prepare(conn, sql)
198         ibm_db.bind_param(stmt, 1, recname)
199         ibm_db.execute(stmt)
200         account = ibm_db.fetch_assoc(stmt)
201         if account:
202             msg = 'Request already exists'
203         else:
204             mailtest_requesttodonor(dmail, hospitalname, recname, recmobile, recmail, recage, recgender, recbloodgroup, recarea, reccity, recdistrict)
205             insert_sql = "INSERT INTO REQUEST2 (dmail, hospitalname, recname, recmobile, recmail, recage, recgender, recbloodgroup, recarea, reccity, recdistrict) VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s, %s)"
206             nparam_stmt = ibm_db.prepare(conn, insert_sql)
207             ibm_db.bind_param(nparam_stmt, 1, dmail)
208             ibm_db.bind_param(nparam_stmt, 2, hospitalname)
209             ibm_db.bind_param(nparam_stmt, 3, recname)
210             ibm_db.bind_param(nparam_stmt, 4, recmobile)
211             ibm_db.bind_param(nparam_stmt, 5, recmail)
212             ibm_db.bind_param(nparam_stmt, 6, recage)
213             ibm_db.bind_param(nparam_stmt, 7, recgender)
214             ibm_db.bind_param(nparam_stmt, 8, recbloodgroup)
215             ibm_db.bind_param(nparam_stmt, 9, recarea)
216             ibm_db.bind_param(nparam_stmt, 10, reccity)
217             ibm_db.bind_param(nparam_stmt, 11, recdistrict)
218             ibm_db.execute(nparam_stmt)
219             msg = 'Your request has been submitted successfully. Please be patient, we will get back to you soon.'
220     return render_template("request_page.html", msg=msg)
```