

IMPLEMENTING WEB APPLICATION

CREATE IBM DB2 AND CONNECT WITH PYTHON

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|--------------|--------------------------|
| Date | 18 November, 2022 |
| Team ID | PNT2022TMID24120 |
| Project Name | Plasma Donor Application |

The screenshot shows the IBM Cloud console interface. At the top, there's a navigation bar with 'IBM Cloud' and a search bar. Below it, the 'Resource list' section shows 'Db2-cs' with a green 'Active' status and an 'Add tags' link. A 'Details' button and an 'Actions...' dropdown are visible. On the left, a 'Manage' sidebar lists 'Getting started', 'Service credentials', and 'Connections'. The main content area has two columns: 'Getting started' with instructions on finding credentials and links for 'Go to UI' and 'Getting started docs'; and 'Need help?' with a link to 'Support case'.

The screenshot shows the IBM Db2 on Cloud console. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' section is active, showing a table named 'NYB16417.LOGIN'. A 'Back' button is in the top right. Below the table name, there's an 'Export to CSV' button. The table has four columns: 'USERNAME', 'USERMAIL', 'USERCONTACT', and 'PASSWORD'. The data rows are as follows:

| USERNAME | USERMAIL | USERCONTACT | PASSWORD |
|---------------------|-----------------------------------|-------------|----------|
| NandhiniL | nandhini02lak@gmail.com | 1234 | nandhini |
| NandhiniLakshmpathy | nandhini02lak@gmail.com | 1234 | dass |
| Nandhinilak | nandhini02lak@gmail.com | 12345678 | nan |
| Sharath | nandhinilakshmpathy1307@gmail.com | 7334567898 | Nandhy |
| Sharath Kumar | nandhini02lak@gmail.com | 7339286572 | 123456 |
| Sharathtest | chinnukool72@gmail.com | 1234 | sharath |

| IBM Db2 on Cloud | | | | | | | | | |
|------------------------|--------------|--------------|-----------|------------------------|---------|-----------|---------------|-----------|---------------------|
| | Load Data | Load History | Tables | Views | Indexes | Aliases | MQTs | Sequences | Application objects |
| NYB16417.RE\$UEST2 | | | | | | | | | |
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| | | | | | | | | | Export to CSV |
| DRMAIL | HOSPITALNAME | RECNAME | RECMOBILE | RECMAIL | RECAGE | RECGENDER | RECBLOODGROUP | RECAREA | RECCITY |
| chinnukool72@gmail.com | kmc | nandhini | 123345 | chinnukool72@gmail.com | 21 | Male | A+ | chennai | chennai |
| nandhini@gmail.com | kmc | nandhini | 123456 | nandhini@gmail.com | 21 | Female | A- | chennai | chennai |

| IBM Db2 on Cloud | | | | | | | | | |
|------------------|-----------|-------------------------|--------|--------|---------|---------|---------|-----------|---------------------|
| | Load Data | Load History | Tables | Views | Indexes | Aliases | MQTs | Sequences | Application objects |
| NYB16417.DONOR2 | | | | | | | | | |
| | | | | | | | | | Back |
| | | | | | | | | | Export to CSV |
| NAME | MOBILE | EMAIL | AGE | GENDER | BLOOD | AREA | CITY | DISTRICT | |
| Nandhinilak | 1234 | nandhini02lak@gmail.com | 21 | Female | O+ | chennai | chennai | tn | |
| Sharath | 123456 | chinnukool72@gmail.com | 21 | Male | B+ | chennai | chennai | chennai | |

```

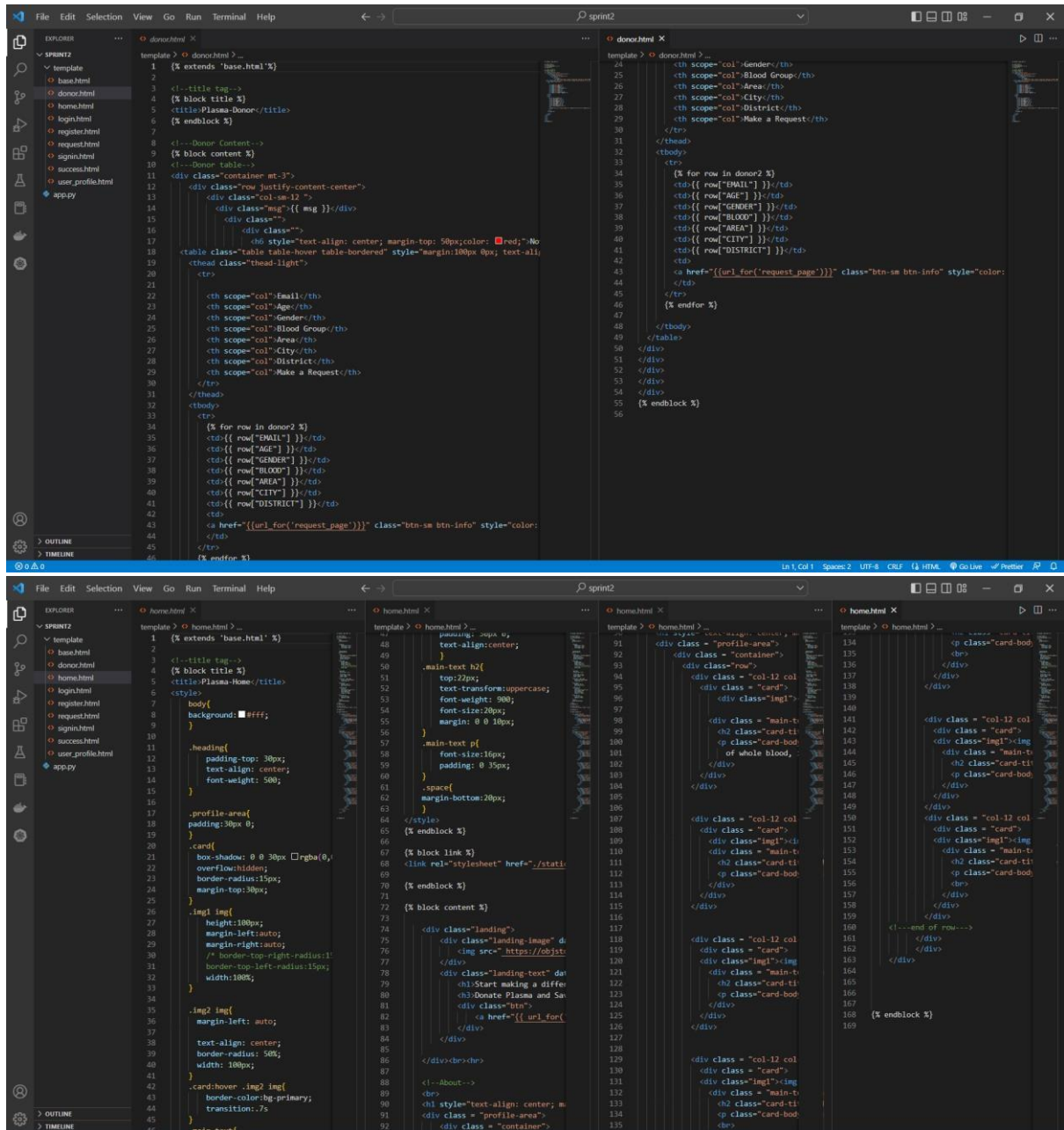
1 from flask import Flask,render
2 import ibm_db
3 import sendgrid
4 import re
5 from sendgrid.helpers.mail
6
7 app = Flask(__name__)
8 app.secret_key="1"
9
10 conn = ibm_db.connect("DATA
11
12 @app.route("/")
13 def index():
14     return render_template(
15
16 @app.route("/home")
17 def home_page():
18     return render_template(
19
20 #-----
21 @app.route("/login",methods
22 def login():
23     global userid
24     msg = ""
25     if request.method == 'P
26         username = request.
27         password = request.
28         sql = "SELECT * FRQ
29         stmt = ibm_db.prepa
30         ibm_db.bind_param(s
31         ibm_db.bind_param(s
32         ibm_db.execute(stmt
33         account = ibm_db.fe
34         print (account)
35         if account:
36             session['logged
37             session['id'] =
38             session['acoun
39             session['userna
40             msg = 'logged i
41         return render_t
42     else:
43         msg = 'Incorrec
44     return render_template(
45
46 @app.route("/register")
47
48 # After login
49 @app.route("/afterlogin")
50 def afterlogin():
51     return render_template(
52
53 #-----
54 app = Flask(__name__)
55 app.secret_key="1"
56 @app.route("/signin",method
57 def signin():
58     msg = ""
59     if request.method == 'P
60         username = request.
61         usermail = request.
62         usercontact = requ
63         password = request.
64         sql = "SELECT * FRQ
65         stmt = ibm_db.prepa
66         ibm_db.bind_param(s
67         ibm_db.execute(stmt
68         account = ibm_db.fe
69         print(account)
70         if account:
71             msg = 'Account
72         elif not re.match(r
73             msg = 'Invalid
74         elif not re.match(r
75             msg = 'name mus
76         else:
77             insert_sql = "I
78             prep_stmt = ibm
79             ibm_db.bind_par
80             ibm_db.bind_par
81             ibm_db.bind_par
82             ibm_db.bind_par
83             ibm_db.execute(
84             msg = "You have
85             #waitlist(user
86             return render_t
87         elif request.method ==
88             msg = 'Please fill
89         return render_t
90     return render_template(
91 @app.route("/register")
92
93 @app.route("/register")
94 def register():
95     return render_template(
96 @app.route("/addonor",meth
97 def addonor():
98     if request.method == 'P
99         name = request.form
100         mobile = request.fo
101         email = request.fo
102         age = request.form
103         gender = request.fo
104         blood = request.fo
105         area = request.form
106         city = request.form
107         district = request.
108         sql = "SELECT * FRQ
109         stmt = ibm_db.prepa
110         ibm_db.execute(stmt
111         account = ibm_db.fe
112         print(account)
113         if account:
114             msg = 'Request
115         else:
116             insert_sql = "I
117             prep_stmt = ibm
118             ibm_db.bind_par
119             ibm_db.bind_par
120             ibm_db.bind_par
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123             ibm_db.bind_par
124             ibm_db.bind_par
125             ibm_db.execute(
126             msg = "You have
127             #waitlist(user
128             return render_t
129         elif request.method ==
130             msg = 'Please fill
131         return render_templ
132     return render_template(
133 @app.route("/request_page",
134 def request_page():
135     msg = ""
136     def request_page():
137         msg = ""
138         if request.method == 'P
139             email = request.fo
140             hospitalname = req
141             recname = request.f
142             recmobile = request
143             recmail = request.f
144             recage = request.fo
145             recgender = request
146             recbloodgroup = req
147             recarea = request.f
148             reccity = request.f
149             recdistrict = requ
150             sql = "SELECT * FRQ
151             stmt = ibm_db.prepa
152             ibm_db.execute(stmt
153             account = ibm_db.fe
154             print(account)
155             if account:
156                 msg = 'Request
157             else:
158                 insert_sql = "I
159                 prep_stmt = ibm
160                 ibm_db.bind_par
161                 ibm_db.bind_par
162                 ibm_db.bind_par
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164                 ibm_db.bind_par
165                 ibm_db.bind_par
166                 ibm_db.bind_par
167                 ibm_db.execute(
168                 msg = "You have
169                 #waitlist(user
170                 return render_t
171             msg = "Your req
172             return render_t
173         elif request.method ==
174             msg = 'Please fill
175         return render_templ
176     return render_template(
177 @app.route("/logout")
178 def logout():
179     session.clear()
180     return redirect(url=for
181
182 if __name__ == '__main__':
183     app.run(debug=True)
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```

The image shows a VS Code editor with two files open: `base.html` and `index.html`. The `base.html` file is on the left, and the `index.html` file is on the right. Both files contain HTML code for a web page layout, including meta tags, Bootstrap CSS, Google Font, and navigation links. The `index.html` file also includes JavaScript for a toggle navigation menu.

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, shrink-to-fit=no">
8   <!-- Font awesome -->
9   <script src="https://kit.fontawesome.com/15af26b772.js" crossorigin="anonymous"></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=Montserrat:ital,wght&family=Roboto:wght@400,700&family=Ubuntu:wght@400,700');
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" crossorigin="anonymous"></script>
21   <!-- block link -->
22   <div class="block-link">
23     <div class="block-link">
24       <div class="block-link">
25     </div>
26   </div>
27
28   <!-- Header -->
29   <div>
30     <div class="navbar navbar-expand-lg navbar-dark bg-primary">
31       <div class="container">
32         <a href="http://localhost:3000/">
33           <div class="navbar-brand">
34             <div class="fa-solid fa-drop">
35               <div class="fa-solid fa-drop">
36                 <div class="fa-solid fa-drop">
37                 <div class="fa-solid fa-drop">
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The image shows a web development IDE with three files open: `login.html`, `register.html`, and `register.html`. The `login.html` file contains HTML code for a login form, including a header, a login form with fields for email and password, and a footer. The `register.html` file contains HTML code for a registration form, including a header, a registration form with fields for first name, last name, email, password, and confirm password, and a footer. The `register.html` file also includes a link to the login page.

```
File Edit Selection View Go Run Terminal Help
SPRINT2
template > login.html >
1 [% extends 'base.html' %]
2
3 <!--title tag-->
4 [% block title %]
5 <title>Plasma-Login</title>
6 [% endblock %]
7
8 <!--login Content-->
9 [% block content %]
10 <!--login form-->
11 <div class="container">
12   <div class="text-center mt-5"><h3>Login using Us
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="/login" method="PO
23             <div class="mb-3">{{ msg }}</
24
25             <div class="form-group">
26               <label for="username">Us
27               <input type="text" class
28             </div>
29             <div class="form-group">
30               <label for="password">Pa
31               <input type="password" c
32             </div>
33             <div>
34               <div>
35                 <a href="/lue1_for" for
36               </div>
37             <!--button-->
38             <div class="form-group text-
39               <input type="submit" val
40             </div>
41             <div>
42               <div style="text-align: cent
43               <p>Don't have an account
44             </div>
45           </form>
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```

The screenshot displays a web browser window with a registration form. The browser's address bar shows the URL `http://localhost:3000/`. The page layout includes a sidebar on the left with a navigation menu and a main content area on the right with the registration form.

Sidebar Navigation Menu:

- Home
- Registration
- Login
- Logout
- Profile
- Settings
- Admin

Registration Form:

The form is titled "Registration" and contains the following fields:

- Full Name:** A text input field with a placeholder "Enter your full name".
- Email:** A text input field with a placeholder "Enter your email".
- Phone Number:** A text input field with a placeholder "Enter your phone number".
- Gender:** A select dropdown menu with options "Male", "Female", and "Other".
- Age:** A text input field with a placeholder "Enter your age".
- Hospital:** A text input field with a placeholder "Enter your hospital".
- Address:** A text input field with a placeholder "Enter your address".
- Registration Date:** A text input field with a placeholder "Enter your registration date".
- Registration Time:** A text input field with a placeholder "Enter your registration time".

The form is styled with a light blue background and rounded corners. The sidebar is a dark blue color with white text. The browser's status bar at the bottom shows the page is loaded and the address bar contains the URL.

The image shows a web development environment with two code editors side-by-side. The left editor displays the CSS for a file named 'user_profile.html', and the right editor displays the HTML for the same file. Both files are part of a 'template' project.

Left Editor (CSS):

```
1  [% extends 'base.html' %]
2
3  <!--title tag-->
4  [% block title %]
5  <title>Plasma-Profile</title>
6  </style>
7
8  .profile-area{
9      padding: 70px 0;
10     border: 2px solid #rgba(233, 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 #rgba(0,0,0,0.1);
18     overflow: hidden;
19     border-radius: 15px;
20     margin-top: 30px;
21     background-image: linear-gradient( #538FFB, #538FFB );
22     height: 200px;
23 }
24
25 .card:hover{
26     border-color: #00804F;
27     transform: rotate(1deg);
28     transition: .7s
29 }
30
31 .main-text, .card-body{
32     text-align: center;
33     padding-top: 60px;
34 }
35
36 .btn{
37     padding: 10px 10px;
38     margin-bottom: 20px;
39 }
40
41 </style>
42 [% endblock %]
43
44 [% block link %]
45
46 [% endblock %]
47
48 <h2 class="page-header text-center" style="margin-top: 30px; color: black">Your P
49
50 <!--User Content-->
51 [% block content %]
```

Right Editor (HTML):

```
1  [% extends 'base.html' %]
2
3  <!--title tag-->
4  [% block title %]
5  <title>Plasma-Profile</title>
6  </style>
7
8  .profile-area{
9      padding: 70px 0;
10     border: 2px solid #rgba(233, 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 #rgba(0,0,0,0.1);
18     overflow: hidden;
19     border-radius: 15px;
20     margin-top: 30px;
21     background-image: linear-gradient( #538FFB, #538FFB );
22     height: 200px;
23 }
24
25 .card:hover{
26     border-color: #00804F;
27     transform: rotate(1deg);
28     transition: .7s
29 }
30
31 .main-text, .card-body{
32     text-align: center;
33     padding-top: 60px;
34 }
35
36 .btn{
37     padding: 10px 10px;
38     margin-bottom: 20px;
39 }
40
41 </style>
42 [% endblock %]
43
44 [% block link %]
45
46 [% endblock %]
47
48 <h2 class="page-header text-center" style="margin-top: 30px; color: black">Your P
49
50 <!--User Content-->
51 [% block content %]
```

The screenshot shows a VS Code editor with a project named 'SPRINT2'. The file explorer on the left lists the following files: 'template', 'base.html', 'donor.html', 'home.html', 'login.html', 'register.html', 'request.html', 'signin.html', 'success.html', 'user_profile.html', and 'app.py'. The 'login.html' file is selected and its content is displayed in the main editor. The code is as follows:

```

1  {% extends 'base.html' %}
2
3  <!--title tag-->
4  {% block title %}
5  <title>Plasma-Login</title>
6  {% endblock %}
7
8  <!--login Content-->
9  {% block content %}
10 <!--login form-->
11 <div class="container">
12   <div class="text-center mt-5"><h3>Login using Username and Password:</h3></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="/login" method="POST">
23             <div class="msg">{{ msg }}</div>
24
25             <div class="form-group">
26               <label for="username">User Name</label>
27               <input type="text" class="form-control" name="username">
28             </div>
29
30             <div class="form-group">
31               <label for="password">Password</label>
32               <input type="password" class="form-control" name="password">
33             </div>
34
35             <div>
36               <a href="{url_for('forgotpassword')}}">Forgot Password</a>
37             </div>
38
39             <!--button-->
40             <div class="form-group text-center">
41               <input type="submit" value="login" class="btn btn-success">
42             </div>
43
44             <div style="text-align: center;">
45               <p>Don't have an account <a href="{url_for('signin')}}">Signin</a>
46             </div>
47
48           </form>
49         </div>
50       </div>
51     </div>
52   </div>
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